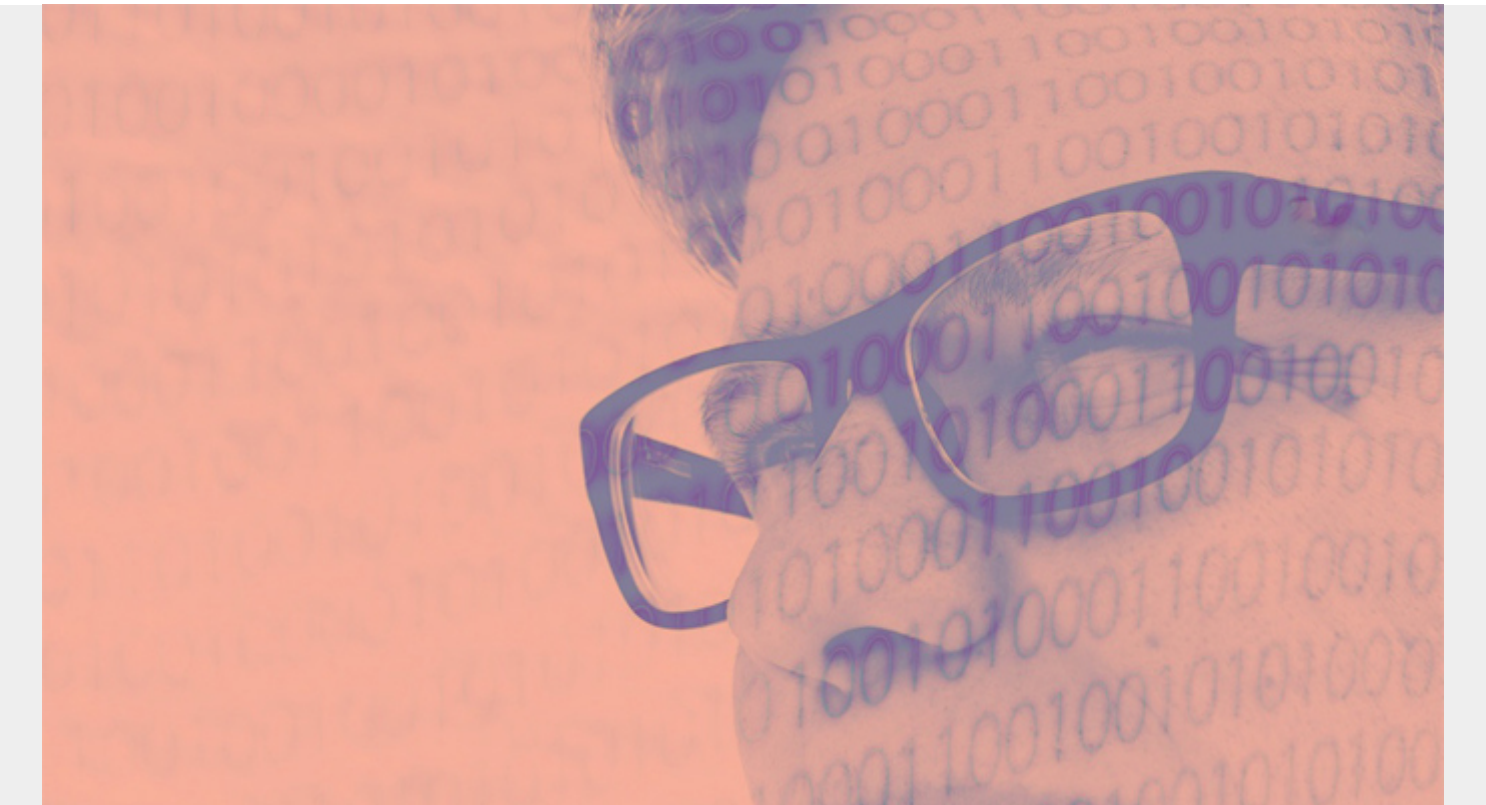


QUERIES IN DB2 12



subselect

```
>> __select-clause__ from-clause_____ >
                                     |_where-clause_|
> _____ >
    |_group-by-clause_|   |_having-clause_|
> _____ >
    |_order-by-clause_|   |_offset-clause_|   |_fetch-clause_|
```

(This article is part of our [Db2 Guide](#). Use the right-hand menu to navigate.)

select-clause

```
>> __SELECT__ |__ALL__|_____ >
               |__DISTINCT_|
> _____ >> |
<_, _____ |
    |_____ expression_____ | |
        |         |_AS_|         | |
```

```

| | | | |__column-name_| |
|__unpacked-row_|
|__table-name_|.*|
|__view-name_|
|__correlation-name_|

```

unpacked row:

```

                                <_,_____>>__UNPACK-
function-invocation_.*_AS_(__field_name_data_type_|_____>< from-clause:
                                <_,_____>>__FROM__table-
reference_|_____>< table reference:
>>_____single-table-reference_____><
|__single-view-expression_|
|__nested-table-expression_|
|__table-function-reference_|
|__data-chage-table-reference_|
|__joined-table_|
|__table-locator-reference_|
|__collection-derived-table_|
|__xmltable-expression_|

```

single-table-reference:

```

                                <_____>>__table-
name_|_____>< |__period-
specification___| |__correlation-clause_|

```

single-view-reference:

```

                                <_____>>__view-
name_|_____>< |__period_-
specification___| |__correlation-clause_| period-specification:
>>__FOR__SYSTEM_TIME_____AS OF value_____><
|__BUSINESS_TIME_| |__FROM_value1_to_value2_|
|__BETWEEN_value2_AND_value2_| correlation-clause: _AS_
>>__|_|__correlation-name_|_____><
| <_,_____ | |__(__column-name|_)_| nested-table-expression:
>>_____ (fullselect)___correlation-clause_____><
|__TABLE_| table-function-reference: >>_TABLE_(function-
name(_____)_____)>
                                | <_,_____ |
|_____expression_____ | | |__TABLE__transition_table_name_|
>__table-UDF-cardinality-clause__)_____>
>__correlation-clause_____>
|__typed-correlation-clause_|

```

table-UDF-cardinality-clause:

```

>>__CARDINALITY__integer-constant_____><
|__CARDINALITY MULTIPLIER_numeric-constant_| data-chage-table-reference:

```

```
>> __FINAL TABLE__(INSERT statement)____>
  | __FINAL__ TABLE (searched UPDATE statement) | | __correlation-clause_|
  | | __OLD_| |
  | __OLD TABLE__ searched DELETE statement_____|
  | __FINAL TABLE__(MERGE statement)_____|
```

collection-derived-table:

```
>> __UNNEST__(__ordinary-array-expression_____)____><
| __associative-array-expression_| | __WITH ORDINALITY_| > __correlation-
clause_____>
```

typed-correlation-clause

```
  __AS_
>> __|_| __correlation-name_____><
| <_,_____ | | (__column-name_data-type_|) | __xmltable-
expression: >> __xmltable-function__ correlation
clause_____>
```

joined-table:

```
  __INNER__
>> __table-reference_|_____| __JOIN__ table-reference_ON join-condition_><
| | __OUTER_| | | | __LEFT__|_____| | | | __RIGHT_| | | | __FULL_| |
| __table-reference_CROSS JOIN__ table-reference_____ |
| (__joined-table_____)_____ | For
INNER, LEFT OUTER, and RIGHT OUTER joins: >> __search-
condition_____>< For FULL
OUTER joins:
  < __AND_____ | >> __full-join-
expression__=__full-join-expression_|_____>< full-join-
expression: >> __column-
name_____>< | | __cast-
function_____|
  |
  | _____<_____ |
| __COALESCE__(__column-name_____, column-name_____|) | | __cast-
function_____| | |, cast-function_| where-clause: >> __WHERE__ search-
condition_____>< group-by-clause:
  <_,_____ >> __GROUP BY__ grouping-
expression_|_____>
  | __grouping-set_____|
  | __super-groups_____|
```

grouping-set:

```
  </_><_ , _____ > __GROUPING SETS__(__grouping
expression_|_____)_____>< | _____ | __super-groups_|
```

```

|
|
| <_,_____ | |(_grouping-expression_____|_|
|_super-groups_| super-groups: >____ROLLUP____(grouping-expression-
list)_____>< |_CUBE_____(grouping-expression-
list)_____|
|_grand-total_____|

```

grouping-expression-list:

```

| <_,_____ >____grouping-
expression_|_____>< |
| <_,_____ | |(_grouping-expression_|_)_| having-clause:
>>_HAVING_search-condition_____><
order-by-clause:
| <_,_____ _ASC_| >_ORDER BY____sort-
key_|_____>< | | |_DESC_| | | |
|_ORDER OF table-designator_| | |_INPUT SEQUENCE_____| sort-key:
>_column-name_ _____><
|_integer_____| |_sort-key-expression_| offset clause:
>>_OFFSET_offset-row-count____ROW_____><
|_ROWS_| fetch-clause: _1_____ >>_FETCH FIRST_____|_____|_ROW_
ONLY_____>< |_NEXT_| |_integer_| |_ROWS_|

```

fullselect

```

|_____>____subselect_____
|_____|_____>
|_(_fullselect)_____| | ______DISTINCT_____ | | |
|_values-clause_| |_UNION_____|_____|_subselect_____|
|_EXCEPT_____| |_ALL_____| |_(_fullselect)_____|
|_INTERSECT_|
> _____><
|_order-by-clause_| |_offset-clause_| |_fetch-clause_| values-clause:
>_VALUES____sequence-reference_____><
| <_,_____ | |(_sequence-reference_____|_| select-
statement: >____
|_____>
|_WITH____common-table-expression_|
>_fullselect_____|_____>
|_read-only-clause_____|
|_update-clause_____|
|_optimize-clause_____|
|_isolation-clause_____|
|_queryno-clause_____|
|_SKIP LOCKED DATA_____|

```

common-table-expression:

```
> __table-identifier____ AS_(fullselect)____>
| <_,____ | |_(____|____)|
|_column-name_| read-only-clause:
>> __FOR_READ_ONLY____><
update-clause:
____ <_,____ >> __FOR UPDATE OF____column-
name_|____>< optimize-for-clause:
>> __OPTIMIZE FOR____integer____ROWS____><
|_ROW_| isolation-clause:
>> __WITH____CS____><
|_UR____| |_RR____| | |_lock-
clause_| | |_RS____| |_lock-clause_| lock-clause: >_USE
AND KEEP____EXCLUSIVE____LOCKS____><
|_UPDATE____| |_SHARE____| queryno-clause:
>> __QUERYNO____integer____><
SKIP LOCKED DATA: >> __SKIP LOCKED
DATA____><
```

STATEMENTS

ALLOCATE CURSOR

```
>> __ALLOCATE__cursor-name_CURSOR FOR RESULT SET__rs-locator-variable____>
```

ALTER DATABASE

```
<____>> __ALTER DATABASE__database-
name____BUFFERPOOL__bpname____|____>
|_INDEXBP_bpname____|
|_STOGROUP__stogroup-name_|
|_CCSID__ccsid-value____|
</____>
```

ALTER FUNCTION (external)

```
>> __ALTER____FUNCTION__function-name____>
|____| <_,____| | |
|_(____)____)| | | |_parameter-type_| | |_SPECIFIC
FUNCTION__specific-name____| >__option-
list____>< parameter-
type: >>____data-
type____>< |_AS
LOCATOR____| data-type: >>____built-in-data-
type____>< |_distinct-type-
name_| built-in-data-type
```

```

> __SMALLINT____
____>< | | _INTEGER_ | | | | _INT_ | | | | _BIGINT_ | | |
____(5,0)____ |
| _DECIMAL_ | _____ |
____ | | _DEC_ | | ( __integer____ ) ____ | |
| | _NUMERIC_ | | ,integer_ | | | _ (34)_ | | _DECFLOAT_
| _____ |
____ | | | _ (16)_ | | | _ (53)_ _____ |
| _FLOAT_ | _____ |
____ | | | | ( __integer__ ) | | | | _REAL_ _____ | | | |
| _PRECISION_ | | | | _DOUBLE_ | _____ | | | | _ (1)_ _____ | |
| _____ _CHARACTER_ | _____ |
____ | | | | | _CHAR_ | | ( __length__ ) ____ | | | _CCSID_ _ASCII_ |
| _FOR_ _SCBS_ _DATA_ | | | | | | _____ _CHARACTER_ _VARYING_ ( __length__ ) ____ |
| _EBCDIC_ | | _MIXED_ | | | | | | | _CHAR_ | | | _UNICODE_ | | _BIT_ | | | | |
| _VARCHAR_ _____ | | | | | _ (1M)_ _____ | | | | _____ _CHARACTER_ _LARGE
OBJECT_ | _____ | _____ | | | |
| _CHAR_ | | ( __integer__ ) | | _CCSID_ _ASCII_ | | _FOR_ _SBCS_ _DATA_ | | |
| _CLOB_ _____ | | _EBCDIC_ | | _MIXED_ | | | _ (1)_ _____
| _UNICODE_ | |
| _____ _GRAPHIC_ | _____ |
____ | | | | ( __integer__ ) ____ | | | _CCSID_ _ASCII_ | | |
| _VARGRAPHIC_ ( __integer__ ) _____ | | _EBCDIC_ | | | |
____ _ (1M)_ _____ | _UNICODE_ | | | | _DBCLOB_ | _____ | | |
| (integer) _____ | | | _ (1)_ _____ | |
| _BINARY_ | _____ |
____ | | | | (integer) ____ | | | | | _BINARY_ _VARYING
____ (integer) _____ | | | | | _VARBINARY_ _____ | | | | |
____ _ (1M)_ _____ | | | | | _BINARY_ _LARGE
OBJECT_ ____ | _____ | _____ | | | | _BLOB_ _____ |
| ( __integer__ ) ____ | | | | _K_ | | | | _M_ | | | | _G_ | |
| _____ _DATE_ _____
____ | | | _TIME_ _____ | | | | | _ (6)_ _____ _WITHOUT TIME ZONE_ | |
| _TIMESTAMP_ | _____ | ____ | _____ |
____ | | | (integer) ____ | | _WITH TIME ZONE_ _____ | |
| _____ _ROWID_ _____
____ | options-list >> __EXTERNAL_NAME_ _external-program name_
____ _LANGUAGE_ _ASSEMBLE_ _____ >
____ | _identifier_____ | _____ | _C_____ |
| _____ _COBOL_ _____ |
| _____ _JAVA_ _____ |
| _____ _PLI_ _____ |
> __PARAMETER STYLE__ __SQL_____ __NOT DETERMINISTIC__ _____ >
____ | _____ _JAVA_ _____ | | _____ _DETERMINISTIC_ _____ |
> __RETURNS NULL ON NULL INPUT_____ __MODIFIES SQL_____ _____ >
____ | _____ _CALLED ON NULL INPUT_____ | _____ | _____ _READS SQL DATA_____ |
____ | _____ | _____ _CONTAINS SQL DATA_____ |

```

```

                                I_NO SQL_____I
> __NO EXTERNAL ACTION__ __NO SCRATCHPAD_____>
  I_EXTERNAL ACTION____I  I_SCRATCHPAD____length____I
> __PACKAGE PATH package path_____>
  I_NO PACKAGEPATH_____I
> __NO FINAL CALL__ __ALLOW PARALLEL_____ __NO DBINFO____>
  I_FINAL CALL____I  I_DISALLOW PARALLEL_I  I_DBINFO____I
> __CARDINALITY__integer_____ __NO COLLID_____>
                                I_COLLID__collection-id_I
> __WLM ENVIRONMENT__ __name_____>
                                I_( __name__,*__ )_I
> __ASUTIME__ __NO LIMIT_____ __STAY RESIDENT__ __NO____>
                                I_LIMIT__integer_I  I_YES_I
> __PROGRAM TYPE__ __SUB__ __SECURITY__ __DB2_____>
                                I_MAIN_I  I_USER____I
                                I_DEFINER_I
> __STOP AFTER SYSTEM DEFAULT FAILURES_____>
  I_STOP AFTER-integer-FAILURES_____I
  I_CONTINUE AFTER FAILURE_____I
> __RUN OPTIONS__run-time-options_____>
> __INHERIT SPECIAL REGISTERS__ _____STATIC DISPATCH __SECURED_____><
I_DEFAULT SPECIAL REGISTERS_I I_NOT SECURED_I external-java-routine-name: >__
_____method-name_____>
  I_jar-name:_I  I_method-signature_I
jar-name:
> _____jar-id_____>
  I_schema-name._I

```

method-name:

```

  <_____>_____ I__class-id__ __.____
__method-id_____>
  I_package-id__ __.____ __I  I_!____I
  I_/____I

```

method-signature:

```

> _____>
  I_( _____ )_I
    I  <_,_____I
    I  java-datatypeI__I

```

ALTER FUNCTION(compiled SQL scalar)

```

> __ALTER____function-designator_____>

  __ALTER__ __ACTIVE VERSION_____
<_____> __I_____I_I_____I_____options-
list_I_____>

```

```

|          |_ALL VERSIONS_____| |
|          |_VERSION routine-version-id_|
|          |_ACTIVE VERSION_____|
|_REPLACE_|_____|_routine-specification_|
|          |_VERSION_routine_version_id_|
|_ADD VERSION_routing-version-id_routine-specification_|
|_ACTIVATE VERSION_routin-version-id_|
|          |_ACTIVE VERSION_____| |
|_REGENERATE_|_____|_____|
|          |_VERSION_routing-version-id_|_____|
|_DROP VERSION_routine-version-id_|_____|

```

function-designator:

```

>___FUNCTION___function-name_____>
|          |          |<_ ,_____|| |
|          |          |_(_____||_)|
|          |          |_data-type_____|
|_SPECIFIC FUNCTION___specific-name_____|

```

routine-specification:

```

>_(_____)_RETURNS_data_type2_____>
| </_><_ ,_____||_options-list_|_parameter-
name_data-type_|_>__SQL-routine-
body_____>< data-type, data-
type2: >>___built-in-data-
type_____>< |_distinct-type-name_|
|_array-type-name_____| built-in-data-type:
>__SMALLINT_____
_____>< | |_INTEGER_| | | | |INT_| | | | |_BIGINT_| | |
_____(5,0)_____|
|_DECIMAL_|_____|_____
_____||_DEC_____| |_(__integer_____)_____| |
||_NUMERIC_| |_, integer_| | |_(34)_ | |_DECFLOAT_
|_____|
| | |_(16)_| | |_(53)_____|
|_FLOAT_|_____|_____
_____|| | |_(__integer_)_| | | |_REAL_____|| | |
_PRECISION_| | | |_DOUBLE_|_____|| | |_(1)_____|
|_____CHARACTER_____|_____|_____
_____|| | | |_CHAR_____| |_(length_)_____| | |_CCSID_ASCII_____|
|_FOR_SBCS___DATA_| | | | |___CHARACTER_VARYING__(length_)_|
|_EBCDIC_| |_MIXED_| | | | | |_CHAR_____| | |_UNICODE_| |_BIT_| | | |
|_VARCHAR_____|| | | |_(1M)_____|| | | |_____CHARACTER___LARGE
OBJECT_| _____| | | |
|_CHAR_____| |_(integer_)_| |_CCSID_ASCII_____|_FOR_SBCS___DATA_| | |

```

```

I __CLOB_____| I _EBCDIC_| I _MIXED_| I | I __ (1)_____
I _UNICODE_| I
I _GRAPHIC_| _____|
_____| I | I | I _ ( __integer__ ) ____| I | I _CCSID_ ASCII_____| I | I
I _VARGRAPHIC_ ( __integer__ ) _____| I _EBCDIC_____| I | I | I __ (1M)_____
I _UNICODE_| I | I | I _DBCLOB_| _____| I | I | I _ (integer) _____| I | I
_ (1) _____| I | I
I _BINARY_| _____|
_____| I | I | I _ (integer) ____| I | I | I | I _BINARY VARYING
_ (integer) _____| I | I | I | I _VARBINARY_____| I | I | I | I
_ (1M) _____| I | I | I | I _BINARY LARGE
OBJECT_____| I _____| I _____| I | I | I | I _BLOB_____| I
I _ ( __integer_____ ) ____| I | I | I | I _K_| I | I | I _M_| I | I | I _G_| I
_____| I
DATE _____|
_____| I | I | I _TIME_____| I | I | I | I _ ( _6_ ) _____| I | I _WITHOUT TIME ZONE_| I | I
I _TIMESTAMP_| I _____| I _____| I _____|
_____| I | I | I _ (integer_ ( | I | I _WITH TIME ZONE_____| I | I
I _ROWID_____|
_____| I
I _XML_____|
_____| I SQL-routine-body >> _SQL-control-
statement_____>< option-list:
> _____NOT DETERMINISTIC_____EXTERNAL ACTION_____>
I _DETERMINISTIC_____| I _NO EXTERNAL ACTION_|
> _____READS SQL DATA_____CALLED ON NULL INPUT_____>
I _CONTAINS SQL_____| I _RETURNS NULL ON NULL INPUT_|
I _MODIFIES SQL DATA_|
> _____STATIC DISPATCH_____ALLOW PARALLEL_____>
I _DISALLOW PARALLEL_|
> _____DISALLOW DEBUG MODE_____QUALIFIER schema-name_____>
I _ALLOW DEBUG MODE_____|
I _DISABLE DEBUG MODE_|
> _____PACKAGE OWNER_____authorization-name_____ASUTIME_NO LIMIT_____>
I _ASUTIME_LIMIT__integer_|
> _____INHERIT SPECIAL REGISTERS_____WLM ENVIRONMENT FOR DEBUG MODE name_____>
I _DEFAULT SPECIAL REGISTERS_|
> _____CURRENT DATA NO_____CONCURRENT ACCESS RESOLUTION USE CURRENTLY COMMITTED_>
I _CURRENT DATA YES_| I _CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME_____>
> _____DYNAMICRULES RUN_____>
I _DYNAMICRULES BIND_____| I _APPLICATION ENCODING SCHEME ASCII_____|
I _DYNAMICRULES DEFINEBIND_| I _APPLICATION ENCODING SCHEME EBCDIC_____|
I _DYNAMICRULES DEFINERUN_| I _APPLICATION ENCODING SCHEME UNICODE_____|
I _DYNAMICRULES INVOKEBIND_|
I _DYNAMICRULES INVOKERUN_|
> _____WITHOUT EXPLAIN_____ISOLATION LEVEL CS____OPHINT____' ' _____>
I _WITH EXPLAIN_____| I _ISOLATION LEVEL RS_| I _OPHINT_string-constant_|
I _ISOLATION LEVEL RR_|

```

```

I_ISOLATION LEVEL UR_I
</_><_ , _____ >_SQL PATH__schema-nameI_____REOPT
NONE_____VALIDATE RUN_____>
I_SCHEMA PATH__I I_REOPTALWAYS_I I_VALIDATE BIND_I
I_SESSION USER_I I_REOPT ONCE_I
I_USER_I
>
I_QUERY ACCELERATION NONE_____I I_GET_ACCEL_ARCHIVE NO___I
I_QUERY ACCELERATION ENABLE_____I I_GET_ACCEL_ARCHIVE_YES___I
I_QUERY ACCELERATION ENABLE WITH FAILBACK_I
I_QUERY ACCELERATION ELIGIBLE_____I
I_QUERY ACCELERATION ALL_____I
>
I_ROUNDING DEC_ROUND_CEILING___I I_DATE FORMAT ISO___I
I_ROUNDING DEC_ROUND_DOWN_____I I_DATE FORMAT EUR___I
I_ROUNDING DEC_ROUND_FLOOR_____I I_DATE FORMAT USA___I
I_ROUNDING DEC_ROUND_HALF_DOWN_I I_DATE FORMAT JIS___I
I_ROUNDING DEC_ROUND_HALF_UP___I I_DATE FORMAT LOCAL_I
I_ROUNDING DEC_ROUND_UP_____I
>
FOR UPDATE CLAUSE REQUIRED_____>
I_DECIMAL(15)___I I_FOR UPDATE CLAUSE OPTIONAL_I
I_DECIMAL(31)___I
I_DECIMAL(15,s)_I
I_DECIMAL(31,s)_I
>
SECURED_____>
I_TIME FORMAT ISO___I I_NOT SECURED_I
I_TIME FORMAT EUR___I
I_TIME FORMAT USA___I
I_TIME FORMAT JIS___I
I_TIME FORMAT LOCAL_I
>
_BUSINESS TIMESENSITIVE YES_ _SYSTEM TIMESENSITIVE YES_
>____I_____I_____I_____>
I_BUSINESS TIMESENSITIVE NO___I I_SYSTEM TIMESENSITIVE NO___I
>
_ARCHIVE SENSITIVE YES_____
>____I_____I_____>
< I_ARCHIVE SENSITIVE NO___I I_APPLCOMPAT_compatibility-level_I
>
I_CONCENTRATE STATEMENTS OFF_____I
I_CONCENTRATE STATEMENT WITH LITERALS_I

```


</_>

```

>>__ALTER INDEX__index-name_____>
                                     I _REGENERATE_ I
<_____>
_____I __>
      I _BUFFERPOOL__bpname_____I
      I _CLOSE_____YES_____I
      I           I _NO_ I_____I
      I _COPY_____NO_____I
      I           I _YES_ I_____I
I _PIECESIZE_____integer_____K_____I
      I                                     I _M_ I_____I
      I                                     I _G_ I_____I
      I _using-block_____I
      I free-block_____I

```


ALTER MASK

```
>> __ALTER MASK__mask-name__ENABLE_____>
      |_DISABLE_____|
      |_REGENERATE_|
```

ALTER PERMISSION

```
>> __ALTER PERMISSION__permission-name__ENABLE_____>
      |_DISABLE_____|
      |_REGENERATE_|
```

ALTER PROCEDURE (external)

```
>> __ALTER PROCEDURE__procedure-name__option-list_____>
```

option-list

```
>_____DYNAMIC__RESULT____SETS____integer_____><
|_EXTERNAL NAME____external-program-name_____|
|          |_identifier_|          |
|_LANGUAGE____ASSEMBLE_____|
|          |_C_____|          |
|          |_COBOL_____|          |
|          |_JAVA_____|          |
|          |_PLI_____|          |
|          |_REXX_____|          |
|_____|
| |_PARAMETER STYLE____SQL_____| |
|          |_GENERAL_____|          |
|          |_GENERAL WITH NULLS_|          |
|          |_JAVA_____|          |
|_NOT DETERMINISTIC_____|
| |_DETERMINISTIC_____|          |
| PACKAGE PATH__package path_____|
| |_NO PACKAGE PATH_____|          |
|_CONTAINS SQL_____|
| |_READS SQL DATA_____|          |
| |_MODIFIES SQL DATA_|          |
| |_NO SQL_____|          |
|_NO DBINFO_____|
| |_DBIINFO_____|          |
|_NO COLLID_____|
| |_COLLID__collection-id_|          |
|_WLM ENVIRONMENT____name_____|
|          |_(__name__,*__)_|          |
```

```

I _ASUTIME___NO LIMIT_____I
I          I_LIMIT__integer_I I
I _STAY RESIDENT___NO_____I
I          I_YES_I I
I _PROGRAM TYPE___SUB_____I
I          I_MAIN_I I
I _SECURITY___DB2_____I
I          I_USER___I I
I          I_DEFINER_I I
I _RUN OPTIONS__run-time-options_____I
I _COMMIT ON RETURN___NO_____I
I          I_YES_I I
I _INHERIT SPECIAL REGISTERS___I
I I_DEFAULT SPECIAL REGISTERS_I I
I _CALLED ON NULL INPUT_____I
I ___STOP AFTER SYSTEM DEFAULT FAILURES_____I
I I_STOP AFTER integer FAILURES_____I
I I_CONTINUE AFTER FAILURE_____I
I ___DISALLOW DEBUG MODE_____I
I   I_ALLOW DEBUG MODE_____I
I   I_DISABLE DEBUG MODE_____I

```

external-java-routine-name

```

I _____method-name_____I
I _jar-name:_ I I_method-signature_I

```

jar-name

```

I _____jar-id_____I
I _schema-name._ I

```

method-name

```

< _____
I _____I __class-id___.____method-id_____I
I _package-id_.____I I!____I
I _/____I

```

method-signature

```

I _____I
I _(_ _____)_I
I   <_,_____I
I   ___java-datatypeI I

```

ALTER PROCEDURE (SQL-external)

```
>> __ALTER PROCEDURE __procedure-name __option-list _____>
< _____> _____ DYNAMIC __RESULT __SETS _____
__integer _____ | _____>< | _EXTERNAL
NAME _____ 'string' _____ |
| _____ |_identifier_| _____ |
| _____ NOT DETERMINISTIC _____ |
| | _DETERMINISTIC _____ | _____ |
| _____ CONTAINS SQL _____ |
| | _READS SQL DATA _____ | _____ |
| | _MODIFIES SQL DATA _____ | _____ |
| _____ NO COLLID _____ |
| | _COLLID __collection-id_| _____ |
| _____ WLM ENVIRONMENT _____ name _____ |
| _____ |_( __name __, * __ )_| _____ |
| _ASUTIME _____ NO LIMIT _____ |
| _____ |_LIMIT __integer_| _____ |
| _STAY RESIDENT _____ NO _____ |
| _____ |_YES_| _____ |
| _PROGRAMTYPE _____ SUB _____ |
| _____ |_MAIN_| _____ |
| _SECURITY _____ DB2 _____ |
| _____ |_USER _____| _____ |
| _____ |_DEFINER_| _____ |
| _RUN OPTIONS __run-time-options _____ |
| _COMMIT ON RETURN _____ NO _____ |
| _____ |_YES_| _____ |
| _INHERIT SPECIAL REGISTERS _____ |
| | _DEFAULT SPECIAL REGISTERS _____ | _____ |
| _____ STOP AFTER SYSTEM DEFAULT FAILURES _____ |
| | _STOP AFTER integer FAILURES _____ | _____ |
| | _CONTINUE AFTER FAILURE _____ | _____ |
```

ALTER PROCEDURE (SQL-native)

```
> _ALTER PROCEDURE __procedure-name _____>
_____ _ALTER_ _____ _ACTIVE VERSION _____
> _____ | _____ | _____ |_option-list _____><
| | _VERSION __routine-version-id_| | | _ACTIVE VERSION _____ |
| _REPLACE_| _____ |_routine-specification _____| |
| _VERSION routine-version-id_| | | _ADD VERSION __routine-version-id__
```

```

routine-specification _____ | | _ACTIVATE VERSION__routine-version-
id_____ | | _ACTIVE VERSION_____ |
| _REGENERATE__|_____ | _____ | |
| _VERSION-routine-version-id_| | | _DROP VERSION__routine-version-
id_____ | routine-specification:
> _____SQL-routine-body_>
| _____ | | _option-list_|
|_(_____)_|
|<__ , _____ | | _parameter-declaration | | _parameter-
declaration: __IN__ >_| _____ | _parameter-name__data-
type_____>
| _OUT__|
| _INOUT_|

```

data-type:

```

>>__built-in-data-type_____>>
| _distinct-type-name_| | _array-type-name__| built-in-data-type:
> __SMALLINT_____
_____>< | | _INTEGER_| | | | _INT_| | | | | _BIGINT_| | |
_____(5,0)_____ |
| _DECIMAL_____| _____ | _____
_____ | | _DEC_____| |_(__integer_____)_____| |
| | _NUMERIC_| | , integer_| | | _ (34)_ | | _DECFLOAT_
| _____ |
_____| | | _ (16)_ | | | _ (53)_____ |
| _FLOAT_| _____ | _____
_____ | | | |_(__integer__)_| | | | _REAL_____ | | | |
| _PRECISION_| | | | _DOUBLE_| _____ | | | | _ (1)_____ |
| _____ _CHARACTER_____| _____ | _____
_____ | | | | | _CHAR_____| | |_(__length__)_____| | | | _CCSID__ASCII__|
| _FOR__SBCS____DATA_| | | | | | _CHARACTER__VARYING__(__length__)_|
| _EBCDIC_| | _MIXED_| | | | | | _CHAR_____| | | | _UNICODE_| | | | |
| _VARCHAR_____ | | | | | _ (1M)_____ | | | | | _CHARACTER____LARGE
OBJECT_| _____ | | | |
| _CHAR_____| | |_(__integer__)_| | | _CCSID__ASCII__| | _FOR__SBCS____DATA_| | |
| _CLOB_____ | | _EBCDIC_| | _MIXED_| | |
_____(1)_____ | _UNICODE_| |
| _GRAPHIC_| _____ | _____
_____ | | | |_(__integer__)_____| | | | _CCSID__ASCII__| | |
| _VARGRAPHIC__(__integer__)_____ | | _EBCDIC_| | | |
_____(1M)_____ | _UNICODE_| | | | _DBCLOB_| _____ | | |
|_(integer)_____| | | | _ (1M)_____ | |
| _BINARY_| _____ | _____
_____ | | | |_(integer)_____| | | | | _BINARY VARYING
_____(integer)_____ | | | | | _VARBINARY_____ | | | |
| _ (1M)_____ | | | | | _BINARY LARGE
OBJECT_____ | _____ | _____ | | |

```

```

I_BLOB_____I I_(integer_____)____I I I I_K_I I I I_M_I
I I I_G_I I
I__DATE_____
_____I I I_TIME_____I I I I__(_6_)_____WITHOUT TIME ZONE_ I I
I_TIMESTAMP_I_____I____I_____I_____
_____I I I_(integer)_I I_WITH TIME ZONE____I I
I_XML_____
_____I option-list: >____NOT
DETERMINISTIC_____>
    I_DETERMINISTIC_____I          I_DYNAMIC RESULT SETS integer_I
>____READS SQL
DATA_____>
    I_CONTAINS SQL_____I          I_CALLED ON NULL INPUT_I
    I_MODIFIES SQL DATA____I
>____STATIC DISPATCH_____ALLOW
PARALLEL_____>
    I_DISALLOW PARALLEL_I
>__DISALLOW DEBUG MODE_____PARAMETER CCSID ASCII____QUALIFIER schema-
name____>
    I_ALLOW DEBUG MODE____I I_PARAMETER CCSID EBCDIC____I
    I_DISABLE DEBUG MODE____I I_PARAMETER CCSID UNICDOE_I
>__PACKAGE OWNER__auth-name_____ASUTIME_NO_LIMIT_____COMMIT ON RETURN
YES____>
    I_ASUTIME_LIMIT__int_I I_COMMIT ON RETURN NO_I
    I_AUTONOMOUS_____I
>__INHERIT SPECIAL REGISTERS_____WLM ENVIRONMENT FOR DEBUG MODE
name____>
    I_DEFAULT SPECIAL REGISTERS_I
>__CURRENT DATA NO_____CONCURRENT ACCESS RESOLUTION USE CURRENTLY
COMMITTED____>
    I_CURRENT DATA YES_I I_CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME_____I
>_____DEGREE
1_____>
    I_DEFER PREPARE____I    _IDEGREE ANY 1_I
    I_NODEFER PREPARE_I
>____DYNAMICRULES
RUN_____>
    I_DYNAMICRULES BIND_____I I_APPLICATION ENCODING SCHEME ASCII____I
    I_DYNAMICRULES DEFINEBIND_I I_APPLICATION ENCODING SCHEME EBCDIC____I
    I_DYNAMICRULES DEFINERUN____I I_APPLICATION ENCODING SCHEME UNICODE____I
    I_DYNAMICRULES INVOKEBIND_I
    I_DYNAMICRULES INVOKERUN____I
>__WITHOUT EXPLAIN____ISOLATION LEVEL CS_____OPHINT____'
____>
    I_WITH EXPLAIN____I I_ISOLATION LEVEL RS_I          I_OPHINT_string-constant_I
    I_ISOLATION LEVEL RR_I
    I_ISOLATION LEVEL UR_I

```

```

        <_ , _____ > _SQL PATH__schema-name| _____REOPT
NONE _____ VALIDATE RUN _____>
        I _SCHEMA PATH__| I _REOPT ALWAYS_| I _VALIDATE BIND_|
        I _SESSION USER_| I _REOPT ONCE__|
        I _USER_|

```

>

->

```

I _ROUNDING DEC_ROUND_CEILING__| I _DATE FORMAT ISO__|
I _ROUNDING DEC_ROUND_DOWN_____| I _DATE FORMAT EUR__|
I _ROUNDING DEC_ROUND_FLOOR_____| I _DATE FORMAT USA__|
I _ROUNDING DEC_ROUND_HALF_DOWN_| I _DATE FORMAT JIS__|
I _ROUNDING DEC_ROUND_HALF_EVEN_| I _DATE FORMAT LOCAL_|
I _ROUNDING DEC_ROUND_HALF_UP__|
I _ROUNDING DEC_ROUND_UP_____|

```

> _____ FOR UPDATE CLAUSE

REQUIRED _____>

```

I _DECIMAL(15)____| I _FOR UPDATE CLAUSE OPTIONAL_|
I _DECIMAL(31)____|
I _DECIMAL(15,s)_|
I _DECIMAL(31,s)_|

```

>

->

```

I _TIME FORMAT ISO__|
I _TIME FORMAT EUR__|
I _TIME FORMAT USA__|
I _TIME FORMAT JIS__|
I _TIME FORMAT LOCAL_|

```

>

>

```

I _____ _YES_ | I _____ _YES_ |
I _SYSTIMESENSITIVE(_I _NO_ |_)_| I _BUSTIMESENSITIVE(_I _NO_ |_)_|

```

>

>

```

I _____ _YES_ | I _____ |
I _ARCHIVESENSITIVE(_I _NO_ |_)_| I _APPLCOMPAT(__level__)|

```

>

><

```

I _CONCENTRATE STATEMENTS OFF _____|
I _CONCENTRATE STATEMENTS WITH LITERALS_|

```

ALTER SEQUENCE

```
>> __ALTER SEQUENCE __sequence-name_____>
    <_____> __ _RESTART__
_____|_____>< |
|_WITH__numeric-constant_| | |
|   |_INCREMENT BY__numeric-constant_____|
|   |_NO MINVALUE_____|
|   |_MINVALUE__numeric-constant_| |
|   |_NO MAXVALUE_____|
|   |_MAXVALUE__numeric-constant_| |
|   |_NO CYCLE_____|
|   |_CYCLE_____| |
|   |_NO CACHE_____|
|   |_CACHE__integer-constant_| |
|   |_NO ORDER_____|
|   |_ORDER_____|
```

ALTER STOGROUP

```
>> __ALTER STOGROUP __stogroup-name_____>
    <_____<_,_____ | >_____ADD
VOLUMES(____volume-id|_____)_____|_____>< |
| <_,_____| | | | |
|   |_____ |_____ |_____ |
|   |_____<_,_____ |
|   |_REMOVE VOLUMES(____volume-id|_____)_|
|   |_____<_,_____| |_____ '*'_|_____ |
>_____>
|_DATACLAS_dc-name_| |_MGMTCLAS_mc-name_| |_STORCLAS_sc-name_|

</_____>
```

ALTER TABLE

```
>> __ALTER TABLE __table-name_____>
    <_____ _COLUMN_
>_____ADD_|_____ |_____column-definition_____>
|   |_____ _COLUMN_ | | |
|   |_ALTER_|_____ |_____column-alteration_____|
|   |_RENAME COLUMN source-column-name_____|
|   |_____ |_TO target-column-name_____| |
|   |_DROP COLUMN_column-name_RESTRICT_____|
|   |_ADD PERIOD FOR period-definition_____|
|   |_ADD__unique constraint_____|
```

	referential-constraint	
	_check-constraint_____	
	_DROP___PRIMARY KEY_____	
	_FOREIGN KEY_constraint-name_	
	_UNIQUE_____	
	_CHECK_____	
	CONSTRAINT	
	_ADD PARTITION BY_partitioning-clause_____	
	_ADD PARTITION_partitioning-clause_____	
	_ALTER PARTITION_integer_partition clause_____	
	_ROTATE_FIRST___TO LAST_rotate-part-clause_____	
	integer	
	_ADD ORGANIZE BY HASH organization-clause_____	
	_ALTER ORGANIZATION_SET HASH SPACE int___K_____	
	M	
	G	
	_DROP ORGANIZATION_____	
	SYSTEM	
	ADD _VERSIONING USE HISTORY TABLE hist-table_	
	SYSTEM	
	DROP _VERSIONING_____	
	MATERIALIZED	
	QUERY	
	ADD _mqt-def_____	
	MATERIALIZED	
	DROP _QUERY_____	
	MATERIALIZED	
	ALTER _QUERY_____mqt-alt_____	
	CHANGES	
	ALL	
	_DATA CAPTURE___NONE_____	
	CHANGES	
	CARDINALITY	
	_NOT VOLATILE___ _____	
	_VOLATILE___	
	_ADD CLONE_clone-table-name_____	
	_DROP CLONE_____	
	_ADD RESTRICT ON DROP_____	
	_DROP RESTRICT ON DROP_____	
	_ACTIVATE_____ROW ACCESS CONTROL_____	
	DEACTIVATE	
	_ACTIVATE_____COLUMN ACCESS CONTROL_____	
	DEACTIVATE	
	_APPEND___NO_____	
	YES	
	_VALIDPROC___program-name_____	
	_NULL_____	

```

I_AUDIT__NONE_____I
I      I_CHANGES_I_____I
I      I__ALL____I_____I
I_ENABLE ARCHIVE _USE_ archive-table-name_____I
I_DISABLE ARCHIVE_____I

```

column-definition:

```

>_____column-name__data-type_____>
<_____>_____
_____I____><
I_default-clause_____I
I_NOT NULL_____I
I_column-constraint_____I
I_generated-clause_____I
I_check-constraint_____I
I_FIELDPROD__program-name_____I
I_____I____<_,_____I I I
I(___constant_I_)_I I I_AS SECURITY
LABEL_____I I_IMPLICITLY
HIDDEN_____I I_INLINE
LENGTH__integer_____I data-type:
>>_____built-in-data-type_____><
I_distinct-type-name_____I built-in-type:
>__SMALLINT_____
_____>< I I_INTEGER__I I I I INT__I I I I I_BIGINT__I I I
_____(5,0)_____I
I__DECIMAL__I_____I_____
_____I I I_DEC_____I I I_(__integer_____)____I I
I I_NUMERIC_I I_, integer_I I I_(34)_ I I_DECFLOAT_
I_____I_____
_____I I I_(16)_I I I_(53)_____I
I__FLOAT__I_____I_____
_____I I I I I_(__integer__)_I I I I_REAL_____I I I
I__PRECISION__I I I I DOUBLES_I_____I I I I_(1)_____I
I_____CHARACTER_____I_____I_____
_____I I I I I_CHAR_____I I I_(length__)____I I I
I_FOR__SBCS__DATA_I I I I I I I__CHARACTER__VARYING__(length__)__I I
I_MIXED_I I I I I I I I I_CHAR_____I I I I I_BIT____I I I I I
I__VARCHAR_____I I__CCSID 1208_____I I I I I I_(1M)_____I I
I I I_____CHARACTER__LARGE OBJECT_
I_____I_____I I I I I
I_CHAR_____I I I_(integer_)_I I I I I I I I I I I
I__CLOB_____I I I I MIXED_I I I I I I I I_BIT____I I I I I
_____(1)_____I I__CCSID1208_____I I
I__GRAPHIC_I_____I_____
_____I I I I I_(integer__)____I I I I I I I
I_VARGRAPHIC__(integer__)_____I I__CCSID 1200_I I I I I

```

```

__ (1M) _____ | | | _DBCLOB_ | _____ | | |
|_(integer)_____ | | | _ (1) _____ | | |
_BINARY_ | _____ | _____
_____ | | | |_(integer)_ | | | | | _BINARY
VARYING_(integer)_____ | | | | | _VARBINARY _____ | |
| | | _ (1M) _____ | | | | _BINARY LARGE
OBJECT _____ | _____ | _____ | | | | _BLOB _____ |
|_(integer _____) _____ | | | | _K_ | | | | _M_ | | | | _G_ | |
| _DATE _____
_____ | | | | _TIME _____ | | | | _ (6_) _____ _WITHOUT TIME ZONE_ |
|
|_TIMESTAMP_ | _____ | _____ | _____ | _____
_____ | | | |_(integer)_ | | | _WITH TIME ZONE _____ | |
|_ROWID _____
_____ | | _XML_ ( XML-type-
modifier_) _____
| XML-type-modifier: >> _XMLSCHEMA XML-schema-
specification _____ >
|_ELEMENT_ element-name _____

```

XML-schema-specification:

```

>> _ID registered-XML-schema-name _____ >
|_URL target-namespace _____ |
|_NO NAMESPACE _____ | | _LOCATION_ schema-location_ |

```

default-clause:

```

_ WITH _
>> | _____ | _DEFAULT _____ ><
|_constant _____ |
|_SESSION_USER _____ | | | _USER _____ | | | _CURRENT
SQLID _____ | | _NULL _____ |
|_cast-function-name_ ( _constant _____ ) | | _SESSION_USER_ | |
|_USER _____ | | | _CURRENT SQLID_ | | _NULL _____ | column-constraint:
>> _reference-clause _____ >
|_check-constraint_ |

```

generated-clause:

```

_ ALWAYS _____
>> _GENERATED_ | _____ | _____ >< |
|_BY DEFAULT_ | | _as-identity-clause _____ | | | _ALWAYS_ | _as-row-
change-timestamp-clause_ | | | _GENERATED_ | _____ | _as-row-transaction-
start-id clause _____ | | _as-ow-transaction-timestamp-clause _____ | | _as-
generated-expression-clause _____ | as-identity-clause: >> _AS
IDENTITY _____ >< |

```

```

<_,_____ I I_(____START WITH__numeric-
constant_____)I I_1_____ I I_INCREMENT BY_I_numeric-
constant_I I I_CACHE 20_____ I I_I_NO CACHE_____I I
I_CACHE__integer_I I I_NO CYCLE_ I I_I_CYCLE_____I I
I_NO MAXVALUE_____ I I_I_MAXVALUE__numeric-constant_I____I I_NO
MINVALUE_____ I I_I_MINVALUE__numeric-constant_I____I I_NO
ORDER_ I I_I_____I_____I I_ORDER____I as-row-change-
timestamp-clause: >>__FOR EACH ROW ON UPDATE AS ROW CHANGE
TIMESTAMP_____>

```

as-row-transaction-timestamp-clause:

```

>>__AS ROW__BEGIN_____>
      I_END_I

```

as-row-transaction-id-clause:

```

>>__AS TRANSACTION START ID_____>

```

non-deterministic-expression:

```

>>__DATA CHANGE OPERATION_____>
  I_special-register_____I
  I_session-variable_____I

```

special-register:

```

>>__CURRENT CLIENT_ACCTING_____>
  I_CURRENT CLIENT_APPLAME_____I
  I_CURRENT CLIENT_CORR_TOKEN_____I
  I_CURRENT CLIENT_USERID_____I
  I_CURRENT CLIENT_WRKSTNNAME_____I
  I_CURRENT SERVER_____I
  I_CURRENT SQLID_____I
  I_SESSION_USER_____I

```

session-variable:

```

>>__SYSIBM.PACKAGE_NAME_____>
  I_SYSIBM.PACKAGE_SCHEMA_____I
  I_SYSIBM.PACKAGE_VERSION_____I

```

column-alteration:

```

>>_column-name_SET_DATATYPE_altered-data-type_____>
      I I_____I_INLINE LENGTH_integer_I I I
      I I__default-clause_____I I
      I I_INLINE LENGTH_integer_____I I
      I I_GENERATED__ALWAYS_____I I
      I I_BY DEFAULT_I I_identity-alteration_____I I
      I I_____I_as-row-transaction-tmsp-cls_I I
      I I_____I_as-row-transaction-id-cls_____I I
      I__DROP DEFAULT_____I

```

```
>__SMALLINT____<br>____>< | | _INTEGER_ | | | | INT_ | | | | _BIGINT_ | | | <br>____(5,0)_____ | <br>| _DECIMAL_____ | _____ | <br>_____| || _DEC_____ | | (_integer_____) ____ | | | | _NUMERIC_ | | , <br>integer_| | | |(34)_ | | _DECFLOAT_ <br>| _____ | _____ | | <br>|_(16)_ | | | |(53)_____ | <br>| _FLOAT_ | _____ | _____ <br>_____| | | | |(_integer_) | | | | _REAL_____ | | | | <br>_PRECISION_ | | | | _DOUBLE_ | _____ | _ | | | |(1)_____ | <br>| _____ CHARACTER_____ | _____ | _____ <br>_____| | | | | _CHAR_____ | | | | |(_length_)_____| | | | _FOR___SBCS___DATA_| | | | <br>| | | _CHARACTER_ VARYING__(length_)_| | | _MIXED_| | | | | | | _CHAR_____ | | <br>| _BIT_____ | | | | | | | _VARCHAR_____ | | | | | |(1M)_____ | | | | <br>| _____ CHARACTER_____ LARGE <br>OBJECT_____ | _____ | _____ | | | | | | _CHAR_____ | <br>| | | | |(_integer_)_| | | _FOR___SBCS___DATA_| | | | | _CLOB_____ | <br>| _MIXED_| | | | |(1)_____ | <br>| _____ GRAPHIC_____ | _____ | <br>_____| | | | |(_integer_)_____| | | | | <br>| _VARGRAPHIC__(_integer_)_____ | | | | |(1M)_____ | | <br>| _DBCLOB_| _____ | | | | |_(integer)_____ | | | | |(1)_____ | <br>| _____ <br>| _BINARY_ | _____ | _____ <br>_____| | | | |_(integer)_____| | | | | | _BINARY VARYING <br>_(integer)_____ | | | | | _VARBINARY_____ | | | | | <br>_(1M)_____ | | | | | _BINARY LARGE <br>OBJECT_____ | _____ | _____ | | | | | _BLOB_____ | <br>| | | | |(_integer)_____)_____| | | | | _K_| | | | | _M_| | | | | _G_| | | | | |(6_)_____ <br>_WITHOUT TIME ZONE_ | <br>| _____ TIMESTAMP_____ | _____ | _____ | _____ <br>_____| | | | |_(integer_)_| | | _WITH TIME ZONE_____ | | | | _XML__( XML-type- <br>modifier_)_____ | XML-type- <br>modifier: >>__XMLSCHEMA XML-schema- <br>specification_____ > <br>_____ | ELEMENT element-name |
```

```
>> __ID registered-XML-schema-name_____>
    |_URL target-namespace_____|
    | NO NAMESPACE                | | LOCATION schema-location |
```

```
>> RESTART
```

```

|___ WITH___numeric-constant___|
|_SET_INCREMENT BY___numeric-constant___|
|_SET_NO MINVALUE___|
|___|_MINVALUE___numeric-constant___|___|
|_SET_NO MAXVALUE___|
|___|_MAXVALUE___numeric-constant___|___|
|_SET_NO CACHE___|
|___|_CACHE___integer___|
|_SET_NO CYCLE___|
|___|_CYCLE___|
|_SET_NO ORDER___|
|___|_ORDER___|___|

```

unique-constraint:

```

>>___PRIMARY KEY_<_,___>
|_CONSTRAINT___constraint-name_|_UNIQUE___|
>___><
|_,_BUSINESS_TIME_WITHOUT_OVERLAPS_| referential-constraint:
>>___FOREIGN KEY___>
|_CONSTRAINT___constraint-name_|
|_</_><_,___|
>___(_column-name___|)___>
|_PERIOD BUSINESS TIME_|
>___references-clause___><
references-clause: >>___REFERENCES___table-
name___>
|_</_><_,___|
|_(_column-name___|_)_|_PERIOD BUSINESS TIME_|
>___><
|_ON DELETE___RESTRICT___|_NO ACTION_|_CASCADE___|_SET NULL_|
|_ENFORCED____ENABLE QUERY OPTIMIZATION_|
>___|___|___|___><
|_NOT ENFORCED_| check-constraint:
>>___CHECK___(check-condition)___><
|_CONSTRAINT___constraint-name_|

```

partitioning-clause:

```

|_RANGE_|<_,___>>___|___|___(_partition-
expression_|_)___>
|_</_><_,___>___(_partition-
element_|_)___>< partitioning-
expression: _NULLS LAST_ _ASC_ >>___column-
name_|___|___|___>
|_DESC_|

```

partition-element:

```

    _AT_      </_><_ , _____ _INCLUSIVE_ >>_
ENDING_ |_____| (____constant_|_) |_____ |_____>< |
|_MAXVALUE_|
|
|_____ |_MINVALUE_|
|_HASH SPACE_integer____K_____ |
|_M_|
|_G_|
```

partition-clause:

```

    _AT_      <_, _____ _INCLUSIVE_ >>_
ENDING_ |_____| (____constant_|_) |_____ |_____>< |
|_MAXVALUE_|
|
|_____ |_MINVALUE_|
|_HASH SPACE_integer____K_____ |
|_M_|
|_G_|
```

partition-rotation:

```

>> _ENDING_ |_____| (____constant_|_) |_____ |_____ RESET_____>
|_MAXVALUE_|
|_MINVALUE_|
```

extra-row-option:

```
>> __ON DELETE ADD EXTRA ROW_____><
```

materialized-query-definition: >>__(_fullselect_) refreshable-table-
options_____>

refreshable-table-options:

```

>> __DATA INITIALLY DEFERRED__ REFRESH DEFERRED_____>
<_____>__
|_____>< |
|_MAINTAINED BY SYSTEM_|
|_|_____ |
| |_MAINTAINED BY USER_____|
| |_ENABLE QUERY OPTIMIZATION_____|
|_|_____ |
|_DISABLE QUERY OPTIMIZATION_|
```

materialized-query-table-alteration:

```

    <_____>> _SET_____MAINTAINED BY
SYSTEM_____>
| |_MAINTAINED BY USER_____|
| |_ENABLE QUERY OPTIMIZATION_____|
|_DISABLE QUERY OPTIMIZATION_|
```

period-definition:

```
>>_SYSTEM_TIME_( _begin-column-name,end-column-name_)_____>
|_____EXCLUSIVE_|
|_BUSINESS_TIME_( _begin-column-name,end-column-name_)_|_____||
|_____INCLUSIVE_|
```

organization-clause:

```
<_____HASH SPACE_64M_____>>_UNIQUE_( _column-
name_)_|_____|_____>
|_____HASH SPACE_integer_K_____|
|_____M_|
|_____G_|

</_____></_____></_____></_____>
_____>
```

ALTER TABLESPACE

```
>>__ALTER TABLESPACE_____table-space-name_____>
|_database-name_|

<_____>_____BUFFERPOOL__bpname_____
|_____><|_LOCKSIZE_____ANY_____| | | | | | | |
|_____TABLESPACE_|_|_|_TABLE_____||_|_PAGE_____||_|
|_ROW_____||_|_LOB_____||_|_LOCKMAX_____SYSTEM_____||
|_integer_|_|_|_CLOSE_____YES_____||_|_NO_____||
|_USING_____VCAT__catalog-name_____||_|_STOGROUP__stogroup-name_|_|
|_PRIQTY__integer_____||_|_SECQTY__integer_____||
|_ERASE_____YES_____||_|_NO_____||
|_FREEPAGE__integer_____||_|_PCTFREE__integer_____||
|_COMPASS_____YES_____||_|_NO_____||_|_DROP PENDING
CHANGES_____||_|_DSSIZE__integer_G_____||_|_MEMBER
CLUSTER YES_____||_|_MEMBER CLUSTER NO_____||
|_SEGSIZE__integer_____||_|_GBPCACHE_____CHANGED_____|| | | | | | |
|_|_ALL_____||_|_|_SYSTEM_____||_|_|_NONE_____||
|_LOCKPART_____YES_____||_|_|_NO_____||
|_MAXROWS__integer_____||_|_MAXPARTITIONS__integer_____||
|_TRACKMOD_____YES_____||_|_|_NO_____||
|_LOGGED_____||_|_|_NOT LOGGED_____||_|_|_CCSID__ccsid-
value_____||_|_PAGENUM RELATIVE_____||_|_PAGENUM
ABSOLUTE_|>>__ALTER
PARTITION__integer_____>
|_USING_____VCAT__catalog-name_____||
|_____STOGROUP__stogroup-name_|_|
|_PRIQTY__integer_____||
|_SECQTY__integer_____||
|_ERASE_____YES_____||
```

</_____>

```
>> ALTER TRIGGER trigger_-name_____>
```

trigger-activation-time

```
>> _____ NO CASCADE BEFORE _____>
    |_AFTER_____|
    | INSTEAD OF   |
```

trigger-event:

```
> __INSERT____>
  I_DELETE____I
  I_UPDATE____I
      I <_ , _____ I I_OF__column-name_I__I trigger-
granularity: >____FOR EACH
ROW____>< I_FOR EACH
STATEMENT_I option-list: >__DISALLOW DEBUG MODE____APPLICATION ENCODING
SCHEME ASCII____>
  I_ALLOW DEBUG MODE__I I_APPLICATION ENCODING SCHEME EBCDIC__I
  I_DISABLE DEBUG MODE_I I_APPLICATION ENCODING SCHEME UNICODE_I

>_QUALIFIER schema-name__ ASUTIME_NO LIMIT____>
      I_ASUTIME LIMIT_int_I

>____>
  I_WLM ENVIRONMENT FOR DEBUG MODE name__I

> __CURRENT DATA NO____CONCURRENT ACCESS RESOLUTION USE CURRENTLY COMMITTED_>
  I_CURRENT DATA YES_II_CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME____I

> __DYNAMICRULES RUN____WITHOUT IMMEDIATE WRITE____>
  I_DYNAMICRULES BIND____I I_WITH IMMEDIATE WRITE____I

> __WITHOUT EXPLAIN____ISOLATION LEVEL CS____OPHINT_ ' ' _____>
  I_WITH EXPLAIN____II_ISOLATION LEVEL RS_I I_OPHINT_string-constant_I
      I_ISOLATION LEVEL RR_I
      I_ISOLATION LEVEL UR_I
      </_><_ , _____ >_SQL PATH__schema-nameI____RELEASE AT
COMMIT____>
      I_SCHEMA PATH__I I_RELEASE AT DEALLOCATE_I
      I_SESSION USER_I
      I_USER_I

>____>
  I_ROUNDING DEC_ROUND_CEILING__I I_DATE FORMAT ISO__I
  I_ROUNDING DEC_ROUND_DOWN____I I_DATE FORMAT EUR__I
  I_ROUNDING DEC_ROUND_FLOOR____I I_DATE FORMAT USA__I
  I_ROUNDING DEC_ROUND_HALF_DOWN_I I_DATE FORMAT JIS__I
  I_ROUNDING DEC_ROUND_HALF_UP__I I_DATE FORMAT LOCAL_I
  I_ROUNDING DEC_ROUND_UP____I

>____FOR UPDATE CLAUSE REQUIRED____>
  I_DECIMAL(15)____I I_FOR UPDATE CLAUSE OPTIONAL_I
  I_DECIMAL(31)____I
  I_DECIMAL(15,s)_I
  I_DECIMAL(31,s)_I
```

```
> _____>
|_TIME FORMAT ISO____| |_NOT SECURED_|
|_TIME FORMAT EUR____| |_SECURED_____|
|_TIME FORMAT USA____|
|_TIME FORMAT JIS____|
|_TIME FORMAT LOCAL_|
```

```
> _____>
| |_____| |_____|
|_SYSTIMESENSITIVE(|_NO_|_)_| |_BUSTIMESENSITIVE(|_NO_|_)_|
```

```
> _____>
| |_____| |_____|
|_ARCHIVESENSITIVE(|_NO_|_)_| |_APPLCOMPAT(____level____)|
```

```
> _____><
|_CONCENTRATE STATEMENTS OFF_____| |_CONCENTRATE STATEMENT WITH
LITERALS_| triggered-action: >>_____SQL
trigger body_____|>
|_WHEN__(____search-condition____)|
```

SQL-trigger-body:

```
> _____><
|_trigger-SQL-statement_|
```

ALTER TRIGGER (basic)

```
>>_ALTER TRIGGER_trigger-name____NOT SECURED_____|>
|_SECURED_|
```

ALTER TRUSTED CONTEXT

```
>>_ALTER TRUSTED CONTEXT_context-name_____|>
```

```
<_____
<_____
```

```
>_ALTER__SYSTEM AUTHID__authorization-name_____|_|><
| |_____|_|_| | |
| | |_____|_WITHOUT ROLE AS OBJECT OWNER_|_|_|
| | |_DEFAULT ROLE role-name_|_|_|
| | |_____|_WITH ROLE AS OBJECT OWNER_____|_|_|
| |_ENABLE_____|_|_|
| | |_DISABLE_|_|_|
| |_NO DEFAULT SECURITY LABEL_____|_|_|
| | |_DEFAULT SECURITY LABEL_seclabel-name_|_|_|
```

```

|      |
|      |_ATTRIBUTES_____(____ADDRESS__address-value_____|_)| | |
|      |      | |_ENCRYPTION_encryption-value_____| |
|      |      | |_SERVAUTH_servauth-value_____| |
|      |      | |_JOBNAME__jobname-value_____|
|
|      |<____,_____| | | |
|_ADD_ATTRIBUTES_____(____ADDRESS__address-value_____|_)_____|
|      |      | |_SERVAUTH_servauth-value_____| |
|      |      | |_JOBNAME__jobname-value_____|
|
|      |<____,_____| | | |
|_DROP_ATTRIBUTES_____(____ADDRESS__address-value_____|_)_____|
|      |      | |_SERVAUTH_servauth-value_____| |
|      |      | |_JOBNAME__jobname-value_____|
|_user-clause_____

```

user-clause:

```

|      |<____,_____|>>__ADD
USE FOR ____authorization-name_____|____>< |
|
|      | |_use-options_| | | |
|      | |_EXTERNAL SECURITY PROFILE profile-name_____| |
|      | |____WITHOUT AUTHENTICATION_____| |_use-options_| |
|      | |_PUBLIC_____| |_____| |
|      | |____WITH AUTHENTICATION_____|
|
|      |<____,_____| | | | |
|_REPLACE USE FOR____authorization-name_____|_____|
|      | |____use-options_____| |
|      | |____WITHOUT AUTHENTICATION_____| |
|      | |_PUBLIC_____| |_____| |
|      | |____WITH AUTHENTICATION_____|
|
|      |<____,_____| | |_DROP
USE FOR____authorization-name_____|_____| | |_EXTERNAL
SECURITY PROFILE_profile-name_| |_PUBLIC_____| use-options:
>>_____|>
|_ROLE_role-name_| |_SECURITY LABEL-seclabel-name_|
|____WITHOUT AUTHENTICATION_____|
>>_____|_____| |_____|><
|_WITH AUTHENTICATION_____|

```

ALTER VIEW

```
>>__ALTER VIEW__view-name__REGENERATE_____|>
```

ASSOCIATE LOCATORS

```
__RESULTS SET_
>> __ASSOCIATE__ I____ I____ LOCATOR____ >
                                I____ LOCATORS_ I
    <_ , _____ > __ (____ rs-locator-
variable_ I____) _____ >

> __WITH PROCEDURE____ procedure-name_____ ><
I____ host-variable__ I
```

BEGIN DECLARE SECTION

```
>> __BEGIN DECLARE SECTION_____ ><
```

CALL

```
>> __CALL____ procedure-name_____ >
    I____ variable__ I
    > _____ ><
I_ ( _____ ) _ I
    I      I <_ , _____ I      I
    I      I _____ expression_____ I      I
    I      I _NULL_____ I      I
    I      I _TABLE__ transition-table-name_ I      I
    I _USING DESCRIPTOR__ descriptor-name_____ I
```

CLOSE

```
>> __CLOSE__ cursor-name_____ ><
```

COMMENT ON

```
>> __COMMENT ON_____ >
> ____ alias-designator_____ IS string-constant_ >< I
I _COLUMN____ table-name____.column-name_____ || I I I _view-name_ I ||
I I _ACTIVE VERSION_____ || I I I _function-
designator_ I _____ || I I I I _VERSION_ routine-version-
id_ || I I I I _INDEX_ index-name_____ || I
I _PACKAGE_ collection-id.package-name_____ || I I I I _VERSION_ || I I
I I I _____ I _id_ || I I I I _PLAN_ plan-
name_____ || I I I I _ACTIVE VERSION_____ || I
I _PROCEDURE_ procedure-name_ I _____ || I I I I I _VERSION_ rt-ver-
id_____ || I I I I I _ROLE_ role-name_____ || I I
```

```

I_SEQUENCE_sequence-name_____|| | I_TABLE____table-
name_____|| | I_view-name_| || |
I_TRIGGER_trigger-name_____|| | I_TRUSTED
CONTEXT_context-name_____|| | I_TYPE____distinct-type-
name_____|| | I_MASK____mask-
name_____|| | I_PERMISSION_permission-
name_____|| | I_multiple-
column_list_____I alias-designator: _FOR
TABLE_____>>_____ALIAS_alias-name_
I_____I_____>
I_PUBLIC_I I_FOR SEQUENCE_I

```

multiple-column-list

```

<_ ,_____>>_table-
name_____(_column-name__IS__string-constant_I__)>
I_view-name_I

```

function-designator

```

>>_ FUNCTION_function-name_____>
I_____I </_><_ ,_____|| |
I_(_____I_)I || | I_____I || | I_parameter-
type_I || | I____SPECIFIC FUNCTION_specific-name_____I
parameter-type >>____data-
type_____>< I_AS
LOCATOR____I data-type: >>____built-in-data-
type_____>< I_distinct-type-name_I
I_array-type-name____I built-in-data-type
>_SMALLINT_____
_____>< I I_INTEGER_I
I
I I INT_I I
I
I I_BIGINT____I
I
I _____(5,0)_____
I
I__DECIMAL____I_____I_____
I_____I
II_DEC____I I_(integer_____)____I
I
II_NUMERIC_I I_, integer_I
I
I _____(34)_
I
I_DECFLOAT_
I_____I_____

```

```

|
|          I_(16)_I
|
|          _(53)_____
|
|___FLOAT___I_____I_____
|_____I_____
|I          I_(__integer__)_I
|
|I_I_REAL_____I
|
|I          _PRECISION_  I
|
|I_I_DOUBLE___I_____I___I
|
|          ___(1)_____
|
|_____CHARACTER___I_____I_____
|_____I_____
|I I I_CHAR_____I I_(length)____I I          I_FOR_SBCS___DATA_I
|I
|I I___CHARACTER___VARYING__(length)___I          I_MIXED_I
|I
|I I I_CHAR_____I          I          I_BIT___I
|I
|I I___VARCHAR_____I
|I
|I          ___(1M)_____
|I
|I___CHARACTER___LARGE OBJECT_
|_____I_____I I
|I I I_CHAR_____I          I_(integer)_I I_FOR_SBCS___DATA_I
|
|I___CLOB_____I          I_MIXED_I
|
|          ___(1)_____
|
|___GRAPHIC_I_____I_____
|_____I_____
|I I          I_(integer)____I          I
|
|I I_VARGRAPHIC__(integer)_____I
|
|I          ___(1M)_____
|
|I_I_DBCLOB_I_____I
|

```

```

|          I_(integer)_____I
|
|          _(1)_____
|
|_
|_BINARY__|_____|_____
|_____I
| |          I_(integer)__|_____I
|
| |__BINARY VARYING _(integer)_____I
|
| | I_VARBINARY_____I
|
| |          _(1M)_____I
|
| |_BINARY LARGE OBJECT_____I_____I
|
| |_BLOB_____I |_(__integer_____)____I
|
|          I_K_I
|
|          I_M_I
|
|          I_G_I
|
|
|__DATE_____
|_____I
|
|_TIME_____
|_____I
| |          __(_6_)_____ _WITHOUT TIME ZONE_
|
|
|_TIMESTAMP_|_____I____|_____I_____
|_____I
|          I_(integer_)____I |_WITH TIME ZONE____I
|
|_ROWID_____
|_____I

```

COMMIT

```
>> COMMIT | _WORK_ | <<
```

CONNECT

```
>> __CONNECT_____><
|_TO_____location-name_____| | |_host-variable_|
|_authorization_| | |_RESET_____|
|_authorization_____| authorization >> __USER__host-
variable__USING__host-variable_____><
```

CREATE ALIAS

```
>> __CREATE _____ALIAS__| table-alias | _____><
|_PUBLIC_| |_sequence-alias_| >> __alias-name__FOR____TABLE_____table-
name_____>< |_view-name__| |_alias-name2_| >> __alias-
name__FOR____SEQUENCE_____sequence-name_____><
```

CREATE AUXILIARY TABLE

```
>> __CREATE____AUXILIARY____TABLE__aux-table-name__IN_____>
|_AUX_____|
> _____table-space-name__STORES__table-name_____>
|_database-name_|
> __APPEND NO____COLUMN__column-name_____><
|_APPEND YES_| |_PART__integer_|
```

CREATE DATABASE

```
>> __CREATE DATABASE__database-name_____>
<_____>_____
|_____><
|_BUFFERPOOL__bpname_____|
|_INDEXBP__bpname_____|
|_AS____WORKFILE_____|
|_____|_FOR__member-name_| |
|_____SYSDEFLT_____|
|_STOGROUP__|_stogroup-name_|_____|
|_CCSID____ASCII_____|
|_____EBCDIC__|
|_____UNICODE_|
```

CREATE FUNCTION (compiled SQL scalar)

```
>> __CREATE FUNCTION__function-name__(_____)__>
|_____| <_ , _____|
|_parameter-declaration_| |_VERSION V1_____> __RETURNS_data-
```

```

type2__|_____|__option-list____><|_VERSION routine-
version-id_| parameter-declaration: >>_____|parameter-
type_____|_____|><|_parameter-name_| parameter-type:
>>_____|data-type_____|_____|><|
|_AS LOCATOR_____| | | _TABLE LIKE_____|table-name_____|_AS LOCATOR_| | _view-name_____|
data-type: >>_____|built-in-data-
type_____|_____|><|_disctinct-type-name_|
|_array-type-name_____| built-in-data-type:
>_SMALLINT_____|_____|
_____|_____|><| | _INTEGER_| | | | _INT_| | | | | _BIGINT_____| | |
_____|(5,0)_____| |
|_DECIMAL_____| |_____| |_____|
_____| | | _DEC_____| | | (_integer_____|)_____| | |
| | _NUMERIC_| | | , integer_| | | _ (34)_ | | _DECFLOAT_
|_____| |
_____| | | _ (16)_ | | | _ (53)_ |_____| |
|_FLOAT_____| |_____| |_____|
_____| | | | | (_integer_)_| | | | _REAL_____| | | | |
|_PRECISION_| | | | | _DOUBLE_| |_____| | | | | _ (1)_ |_____| |
|_____| _CHARACTER_____| |_____| |_____|
_____| | | | | | _CHAR_____| | | (_length_)_____| | | | _CCSID_ ASCII_____| |
|_FOR_ SBCS_____| _DATA_| | | | | | | _CHARACTER_ VARYING_____| (_length_)_____|
|_EBCDIC_| | | _MIXED_| | | | | | | | _CHAR_____| | | | _UNICODE_| | | _BIT_____| | | | |
|_VARCHAR_____| | | | | | | _ (1M)_ |_____| | | | | | _CHARACTER_____| _LARGE
OBJECT_| |_____| |_____| | | | |
|_CHAR_____| | | (_integer_)_| | | _CCSID_ ASCII_____| | | _FOR_ SBCS_____| _DATA_| | |
|_CLOB_____| | | _EBCDIC_| | | _MIXED_| | | | | _ (1)_ |_____|
|_UNICODE_| | |
|_GRAPHIC_| |_____| |_____|
_____| | | | | | (_integer_)_____| | | | _CCSID_ ASCII_____| | | |
|_VARGRAPHIC_| (_integer_)_____| | | _EBCDIC_| | | | |
_____| (1M)_ |_____| | | | | _UNICODE_| | | | | _DBCLOB_| |_____| | | |
| (_integer_)_____| | | | | _ (1)_ |_____| | |
|_BINARY_| |_____| |_____|
_____| | | | | | (_integer_)_____| | | | | | _BINARY VARYING
_____| (_integer_)_____| | | | | | _VARBINARY_____| | | | | |
_____| (1M)_ |_____| | | | | | _BINARY LARGE
OBJECT_____| |_____| |_____| | | | | | _BLOB_____| |_____|
| | (_integer_____|)_____| | | | | | _K_| | | | | _M_| | | | | _G_| | |
|_DATE_____|
_____| | | | | _TIME_____| | | | | | _ (6)_ |_____| _WITHOUT TIME ZONE_| | |
|_TIMESTAMP_| |_____| |_____| | | | | | |
|_____| |_____| |_____| |_____| |_____| | |
| | (_integer_)_| | | _WITH TIME ZONE_____| | |
|_ROWID_____|
_____| |_____|
|_____|
|_XML_____|

```

_____ I SQL-control-body: >>__SQL-control-
statement_____>

option-list:

> __LANGUAGE SQL_____>
 I __SPECIFIC specific-name_____I
> _____ NOT DETERMINISTIC_____ EXTERNAL ACTION_____>
 I __DETERMINISTIC_____I I __NO EXTERNAL ACTION_I
> _____ READS SQL DATA_____ CALLED ON NULL INPUT_____>
 I __CONTAINS SQL_____I I __RETURNS NULL ON NULL INPUT_I
 I __MODIFIES SQL DATA_____I
> _____ STATIC DISPATCH_____ ALLOW PARALLEL_____>
 I __DISALLOW PARALLEL_I

> __DISALLOW DEBUG MODE_____ PARAMETER CCSID ASCII_____ QUALIFIER schema-name_>
 I __ALLOW DEBUG MODE_____I I __PARAMETER CCSID EBCDIC_____I
 I __DISABLE DEBUG MODE_____I I __PARAMETER CCSIS UNICODE_____I
> __PACKAGE OWNER_____ authorization-name_____ ASUTIME_NO LIMIT_____>
 I __ASUTIME_LIMIT_____integer_I
> __INHERIT SPECIAL REGISTERS_____ WLM ENVIRONMENT FOR DEBUG MODE name_____>
 I __DEFAULT SPECIAL REGISTERS_I
> __CURRENT DATA NO_____ CONCURRENT ACCESS RESOLUTION USE CURRENTLY COMMITTED_>
 I __CURRENT DATA YES_I I __CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME_____I
> _____ DYNAMICRULES RUN_____>
 I __DYNAMICRULES BIND_____I I __APPLICATION ENCODING SCHEME ASCII_____I
 I __DYNAMICRULES DEFINEBIND_I I __APPLICATION ENCODING SCHEME EBCDIC_____I
 I __DYNAMICRULES DEFINERUN_____I I __APPLICATION ENCODING SCHEME UNICODE_____I
 I __DYNAMICRULES INVOKEBIND_I
 I __DYNAMICRULES INVOKERUN_____I
> __WITHOUT EXPLAIN_____ ISOLATION LEVEL CS_____ OPHINT_ ' ' _____>
 I __WITH EXPLAIN_____I I __ISOLATION LEVEL RS_I I __OPHINT_string-constant_I
 I __ISOLATION LEVEL RR_I
 I __ISOLATION LEVEL UR_I
 </_><_ , _____ >_SQL PATH_____schema-nameI_____ REOPT
NONE_____ VALIDATE RUN_____ DEGREE 1_____>
 I __SCHEMA PATH_____I I __REOPT ALWAYS_I I __VALIDATE BIND_I I __DEGREE ANY_I
 I __SESSION USER_____I I __REOPT ONCE_____I
 I __USER_____I
> _____>
 I __QUERY ACCELERATION NONE_____I I __GET_ACCEL_ARCHIVE_NO_____I
 I __QUERY ACCELERATION ENABLE_____I I __GET_ACCEL_ARCHIVE_YES_____I
 I __QUERY ACCELARATION ENABLE WITH FAILBACK_I
 I __QUERY ACCELERATION ELIGIBLE_____I
 I __QUERY ACCELERATION ALL_____I

```

> _____>
I_ROUNDING DEC_ROUND_CEILING____I    I_DATE FORMAT ISO____I
I_ROUNDING DEC_ROUND_DOWN____I        I_DATE FORMAT EUR____I
I_ROUNDING DEC_ROUND_FLOOR____I        I_DATE FORMAT USA____I
I_ROUNDING DEC_ROUND_HALF_DOWN____I    I_DATE FORMAT JIS____I
I_ROUNDING DEC_ROUND_HALF_EVEN____I    I_DATE FORMAT LOCAL____I
I_ROUNDING DEC_ROUND_HALF_UP____I
I_ROUNDING DEC_ROUND_UP_____I

```

```

> _____FOR UPDATE CLAUSE REQUIRED_____>
I_DECIMAL(15)____I    I_FOR UPDATE CLAUSE OPTIONAL_I
I_DECIMAL(31)____I
I_DECIMAL(15,s)____I
I_DECIMAL(31,s)____I

```

```

> _____SECURED_____>
I_TIME FORMAT ISO____I    I_NOT SECURED_I
I_TIME FORMAT EUR____I
I_TIME FORMAT USA____I
I_TIME FORMAT JIS____I
I_TIME FORMAT LOCAL____I

```

```

I_BUSINESS TIMESENSITIVE YES____I    I_SYSTEM TIMESENSITIVE YES____I
> _____I_____I_____I_____I_____

```

```

>
I_BUSINESS TIMESENSITIVE NO ____I    I_SYSTEM TIMESENSITIVE YES____I

```

```

I_ARCHIVE SENSITIVE YES____I
> _____I_____I_____
>< I_ARCHIVE SENSITIVE NO ____I    I_APPLCOMPAT_compatibility-level_I

```

external-java-routine-name

```

I_____method-name_____I
I_jar-name:_I    I_method-signature_I

```

jar-name

```

I_____jar-id_____I
I_schema-name._I

```

method-name

```

<_____
I_____I_class-id_____.____method-id_____I
I_package-id_____.____I    I!____I
I_/____I

```

method-signature

```

I_____I

```

```

|_( _____ )_|
|  <_ , _____ |
|__java-datatype|__|

```

CREATE FUNCTION (external scalar)

```

>>__CREATE FUNCTION__function-name__( _____ )__>
|  <_ , _____ |
|__parameter_declaration_|_|>__RETURNS__data-
type2_____option-list_____><| |_AS LOCATOR_____| |
|_data-type3__CAST FROM__data-type4_____||_AS LOCATOR____|
parameter-declaration: >>__data-
type_____><| |_AS
LOCATOR_____| | |_TABLE LIKE____table-name____AS LOCATOR_| |_view-name_|
data-type: >>__built-in-data-
type_____><|_distinct-type-name_|
built-in-data-type:
>__SMALLINT_____
_____><| |_INTEGER_____| | | | |_INT_____| | | | |_BIGINT_____| | |
_____(5,0)_____|
|_DECIMAL_____| _____|
_____||_DEC_____| |_( __integer_____ )_____| |
||_NUMERIC_| |_, integer_| | |_(34)_| |_DECFLOAT_
|_____|
_____| | |_(16)_| | |_(53)_____|
|_FLOAT_____| _____|
_____|| | |_( __integer_____)_| | | |_REAL_____|| | |
|_PRECISION_| | | |_DOUBLE_____| _____| | | |_(1)_____|
|_____CHARACTER_____| _____|
_____|| | | |_CHAR_____| |_(length_____)_____| | | |_CCSID__ASCII_____|
|_FOR__SBCS____DATA_| | | | | |_CHARACTER__VARYING__( _length_____)_____|
|_EBCDIC_____| |_MIXED_| | | | | |_CHAR_____| | | |_UNICODE_| | | | |
|_VARCHAR_____| | | | | |_(1M)_____|| | | |_____CHARACTER____LARGE
OBJECT_| _____| | | | |
|_CHAR_____| |_( __integer_____)_| | |_CCSID__ASCII_____| |_FOR__SBCS____DATA_| | |
|_CLOB_____| | |_EBCDIC_____| |_MIXED_| | | |_(1)_____
|_UNICODE_| | |
|_GRAPHIC_| _____|
_____|| | | |_( __integer_____)_____| | | |_CCSID__ASCII_____| | | |
|_VARGRAPHIC__( __integer_____)_____| | |_EBCDIC_____| | | | |
_____(1M)_____||_UNICODE_____| | | | |_DBCLOB_| _____| | |
|_(integer)_____| | | |_(1)_____|| |
|_BINARY_____| _____|
_____|| | | |_(integer)_____| | | | | |_BINARY VARYING
_____(integer)_____|| | | | | |_VARBINARY_____| | | | | |
_____(1M)_____|| | | | |_BINARY LARGE

```

[illegible]

```

    I_CONTINUE AFTER FAILURE_____I
> _____>
    I_RUN OPTIONS__run-time-options_I
    I_INHERIT SPECIAL REGISTERS_____I_STATIC DISPATCH
> I_____I_____I_____I_____>
    I_DEFAULT SPECIAL REGISTERS_I
    I_NOT SECURED_____
I_____I_____I_____I_____><
I_SECURED_____I

```

```

external-java-routine-name
I_____method-name_____I
I_jar-name:_____I_method-signature_I
jar-name
I_____jar-id_____I
I_schema-name._____I
method-name
<_____
I_____I_class-id_____I_method-id_____I
I_package-id_____I_____I!_____I
I_/_____I
method-signature
I_____I
I_(_____)_I
I<_,_____I
I__java-datatypeI_____I

```

CREATE FUNCTION(external table)

```

>>__CREATE FUNCTION__function-name_____>
>__(_____)>
I<_,_____I
I__parameter-declaration_I_I
<_,_____
>__RETURNS_TABLE_(column-name data-type_____I)_option-list_>< I
I_AS LOCATOR_I I I_GENERIC TABLE_____I parameter-
declaration: >>__parameter-
type_____>< I_parameter-name_I parameter-type:
>>__data-type_____>< I
I_AS LOCATOR_____I I I_TABLE LIKE__table-name_ AS LOCATOR_I I_view-name_I
data-type: >>__built-in-data-
type_____>< I_distinct-type-name_I
built-in-data-type:
>__SMALLINT_____
_____>< I I_INTEGER_I I I I_INT_I I I I_BIGINT_I I I
_____(5,0)_____I

```

```

I__DECIMAL__I____I____
____I__I__DEC____I__I__(__integer____)____I__I__
I__NUMERIC__I__I__, integer_I__I__(34)_I__I__DECFLOAT__
I____I____
____I__I__(16)_I__I__(53)____I____
I__FLOAT__I____I____
____I__I__I__(__integer__)_I__I__I__REAL____I__I__I__
I__PRECISION__I__I__I__DOUBLE__I____I__I__I__(1)____I____
I____CHARACTER____I____I____
____I__I__I__I__CHAR____I__(length____)____I__I__I__CCSID__ASCII__I__
I__FOR__SBCS__DATA__I__I__I__I__I__CHARACTER__VARYING__(length____)____I____
I__EBCDIC__I__I__MIXED__I__I__I__I__I__I__CHAR____I__I__I__UNICODE__I__I__I__I__
I__VARCHAR____I__I__I__I__(1M)____I__I__I__I__CHARACTER__LARGE
OBJECT__I____I____I__I__I__
I__CHAR____I__(__integer__)_I__I__CCSID__ASCII__I__I__FOR__SBCS__DATA__I__I__I__
I__CLOB____I__I__EBCDIC__I__I__MIXED__I__I__(1)____I____
I__UNICODE__I__I__
I__GRAPHIC__I____I____
____I__I__I__I__(__integer____)____I__I__I__CCSID__ASCII____I__I__I__
I__VARGRAPHIC__(__integer____)____I__I__EBCDIC__I__I__I__I__
____(1M)____I__UNICODE__I__I__I__I__DBCLOB__I____I__I__I__
I__(integer)____I__I__(1)____I__I__
I__BINARY__I____I____
____I__I__I__I__(integer)____I__I__I__I__I__BINARY VARYING
____(integer)____I__I__I__I__I__VARBINARY____I__I__I__I__
____(1M)____I__I__I__I__BINARY LARGE
OBJECT____I____I____I__I__I__BLOB____I____
I__(__integer____)____I__I__I__I__K__I__I__I__M__I__I__I__G__I__I__
I__DATE____I____I____
____I__I__I__TIME____I__I__I__I__(6)____I__WITHOUT TIME ZONE__I__I__
I__TIMESTAMP__I____I____I____I____
____I__I__I__(integer_)_I__I__WITH TIME ZONE____I__I__
I__ROWID____I____I____
____I__option-list:
>>____>
I__SPECIFIC_specific-name_I__I__<____I__
I__PARAMETER CCSID__ASCII____I__I__I__EBCDIC__I__I__I__UNICODE__I__I__
I__VARCHAR__NULTERM____I__I__STRUCTURE__I__
>__EXTERNAL____LANGUAGE__ASSEMBLE____>
I__NAME____'string'____I__I__C____I__
I__identifier_I__I__COBOL____I__
I__PLI____I__
I__PARAMETER STYLE DB2SQL__I__NOT DETERMINISTIC__I__FENCED__
>_I____I__I____I____I____I____>
I__DETERMINISTIC____I__
I__RETURNS NULL ON NULL INPUT__I__READS SQL DATA____
>__I____I____I____I____>

```

```

I_CALLED ON NULL INPUT_____ I_NO SQL_____ I
I_CONTAINS SQL_____ I
EXTERNAL ACTION_____ NO SCRATCHPAD_____
> _ I_____ I_____ I_____ >
I_NO EXTERNAL ACTION_ I_____ I_100_____ I
I_SCRATCHPAD_ I_____ I_ I_
I_length_ I_
NO PACKAGE PATH_____
> _ I_____ I_____ >
I_PACKAGE PATH package-path_ I
NO FINAL CALL_ NODBINFO_
> _ I_____ I_____ I_____ >
I_FINAL CALL_____ I_DISALLOW PARALLEL_ I_DBINFO_ I
NO COLLID_____
> _ I_____ I_____ >
I_COLLID__collection-id_ I_WLM ENVIRONMENT_____ name_____ I
I_( __name__ )_ I
> _____ >
I_CARDINALITY_integer_____ I
ASUTIME NO LIMIT_____ STAY RESIDENT NO_
> _ I_____ I_____ I_____ >
I_ASUTIME__LIMIT__integer_ I_ STAY RESIDENT YES_ I
PROGRAM TYPE SUB_____ SECURITY DB2_____
> _ I_____ I_____ I_____ >
I_PROGRAM TYPE MAIN_ I_SECURITY_____ USER_____ I
I_DEFINER_ I
STOP AFTER SYSTEM DEFAULT FAILURES_____
> _ I_____ I_____ >
I_STOP AFTER integer FAILURES_____ I
I_CONTINUE AFTER FAILURE_____ I
> _____ >
I_RUN OPTIONS__run-time-options_ I
INHERIT SPECIAL REGISTERS_____ STATIC DISPATCH_
> _ I_____ I_____ I_____ I_____ ><
I_DEFAULT SPECIAL REGISTERS_ I_NOT SECURED_____
> _ I_____ I_____ ><
I_SECURED_____ I

```

CREATE FUNCTION (sourced)

```

>> __CREATE FUNCTION__function-name_____ >
> _ ( _____ )_____ >
I <_ , _____ I I__parameter-declaration_ I_ I
> __RETURNS__data-type2_____ >
I_AS LOCATOR_____ I

```

```

> _____>
|_SPECIFIC__specific-name_| |_PARAMETER CCSID__ _ASCII_____|
|_EBCDIC_____|
|_UNICODE_____|

>__SOURCE__function-name_____><
|_SPECIFIC__specific-name_____|
|_function-name__(_____)_|
|<_,_____| |____parameter-type_|_|
parameter-declaration: >>__parameter-
type_____>< |_parameter-name_| parameter-type:
>>__data-type_____>< |
|_AS LOCATOR_____| | |_TABLE LIKE__table-name_ __AS LOCATOR_| |_view-
name_| data-type: >>__built-in-data-
type_____>< |_distinct-type-name_|
built-in-data-type:
>__SMALLINT_____
_____>< | |_INTEGER_|
|
| |_INT_| |
|
| |_BIGINT_|
|
| _____(5,0)_____
|
|_DECIMAL_____| _____|
|
| |_DEC_____| |_(__integer_____)_____|
|
| |_NUMERIC_| |_, integer_|
|
| _____(34)_____
|
|_DECFLOAT_
|_____|
|_____|
| |_(16)_|
|
| _____(53)_____
|
|_FLOAT_| _____|
|_____|
| |_(__integer__)_|
|
| |_REAL_____|
|
| | _____PRECISION_|
|

```

```

|_I_DOUBLE_|_____|_|
|
|_____(1)_____
|
|____CHARACTER_____|_____|_____
|_____
|_|_|_|_CHAR_|_|_(length_)_____|_|_|_CCSID_ASCII_|
|_FOR_SBCS_DATA_|_|_|
|_|_|_CHARACTER_VARYING_(length_)_|_|_|_EBCDIC_|_|_|_MIXED_|
|_|_|
|_|_|_|_CHAR_|_|_|_|_|_UNICODE_|
|_|_|
|_|_|_|_VARCHAR_|_____|
|_|_|
|_|_|_____(1M)_____
|_|_| | | | | | | | | |
|_|_|_CHARACTER_LARGE OBJECT_|
|_____|_____|_____|_|_|
|_|_|_|_CHAR_|_____|_|_|_(_integer_)_|_|_|_CCSID_ASCII_|
|_FOR_SBCS_DATA_|_|_|
|_|_|_CLOB_|_____|_|_|_|_EBCDIC_|
|_MIXED_|_|_|
|_|_|_____(1)_____
|_|_|_|_UNICODE_|
|
|_|_|_GRAPHIC_|_____|_____|_____
|_____
|_|_|_|_(_integer_)_____|_|_|_|_|_CCSID_ASCII_|
|
|_|_|_VARGRAPHIC_(integer)_____|_|_|_|_EBCDIC_|
|
|_|_|_____(1M)_____
|_|_|_|_UNICODE_|
|
|_|_|_DBCLOB_|_____|_____|
|
|_|_|_|_(_integer)_____|
|
|_|_|_____(1)_____
|
|_|_|_BINARY_|_____|_____|_____
|_____
|_|_|_|_(_integer)_____|
|
|_|_|_BINARY VARYING_(integer)_____|
|
|_|_|_|_VARBINARY_|_____|
|

```


</_>

CREATE FUNCTION (SQL Table)

```
>__CREATE FUNCTION__function-name_(_____)_>
|      <_ ,_____ |
|_____ |__ |
|_parameter-declaration_|
|_____ <_ ,_____ >_RETURNS TABLE__(column-
name__data-type2_|_____ options-list_____>

>_SQL-routine-body_____>

parameter-declaration:
>>__parameter-name parameter-type_____><
parameter-type: >>____data-
type1_____>< |_TABLE
LIKE__table-name__AS LOCATOR_|_|_view name_| data-type1, data-type2:
>>____built-in-data-type_____><
|_distinct-type-name_| built-in-data-type:
>__SMALLINT_____
_____>< | |_INTEGER_| | | | |_INT_| | | | |_BIGINT_| | | |
_____(5,0)_____ |
|_DECIMAL_|_____ |
_____ | | |_DEC_| | |_(integer_____)_____| | |
| |_NUMERIC_| | |_, integer_| | |_(34)_ | |_DECFLOAT_|
|_____ |
_____| | |_(16)_ | | |_(53)_____ |
|_FLOAT_|_____ |
_____ | | | |_(integer_)_| | | | |_REAL_| | | | |
|_PRECISION_| | | | |_DOUBLE_|_____ | | | |_(1)_____ |
|_____ CHARACTER_____ |
_____ | | | | |_CHAR_____ | |_(length_)_____| | | |_CCSID_|_ASCII_|
|_FOR_|_SBCS_|_DATA_| | | | | |_CHARACTER_|_VARYING_|_(length_)_|
|_EBCDIC_| | |_MIXED_| | | | | |_CHAR_| | | |_UNICODE_| | | | |
|_VARCHAR_| | | | | |_(1M)_____ | | | | |_CHARACTER_|_LARGE
OBJECT_| |_____ | | | | |
|_CHAR_| | |_(integer_)_| | |_CCSID_|_ASCII_| | |_FOR_|_SBCS_|_DATA_| | |
|_CLOB_| | |_EBCDIC_| | |_MIXED_| | | |_(1)_____
|_UNICODE_| | |
|_GRAPHIC_| |_____ |
_____ | | | |_(integer_)_____| | | | |_CCSID_|_ASCII_| | | |
|_VARGRAPHIC_|_(integer_)_____ | | |_EBCDIC_| | | | |
_____(1M)_____ | | |_UNICODE_| | | | |_DBCLOB_|_____ | | |
|_(integer)_____ | | |_(1)_____ | | |
|_BINARY_| |_____ |
_____ | | | |_(integer_)_____| | | | |_BINARY VARYING
```

```

__(integer)_____I I I I I__VARBINARY_____I I I I I
_(1M)_____I I I I I__BINARY LARGE
OBJECT_____I_____I I I I I__BLOB_____I
I_(__integer_____)____I I I I I__K_I I I I I__M_I I I I I__G_I I
I__DATE_____
_____I I I I__TIME_____I I I I I__(_6_)_____WITHOUT TIME ZONE_ I I
I_TIMESTAMP_I_____I_____I_____
_____I I I I__(integer_)_I I I I__WITH TIME ZONE_____I I
I_ROWID_____
_____I option-list: >_____LANGUAGE
SQL_____>
_____I_SPECIFIC_specific-name_I
>_____NOT DETERMINISTIC_____EXTERNAL ACTION_____>
I_DETERMINISTIC_____I I_NO EXTERNAL ACTION_I
>_____READS SQL DATA_____CALLED ON NULL INPUT_____>
I_CONTAINS SQL_____I
>_____INHERIT SPECIAL REGISTERS__STATIC DISPATCH_____>
_____I_CARDINALITY int_I
>_____SECURED_____PARAMETER CCSID_____>
I_NOT SECURED_I I_ASCII____I
I_EBCDIC____I
I_UNICODE____I

```

SQL-routine-body:

```

>>_RETURN statement_____>>
I_BEGIN ATOMIC RETURN statement_END_I

```

CREATE GLOBAL TEMPORARY TABLE

```

_____<_____>>__CREATE GLOBAL
TEMPORARY TABLE_table-name_(__column-spec_I_)_____>
_____I_LIKE__table-name____I
_____I_view-name_I
>_____>
I_CCSID_____ASCII_____I
I_EBCDIC____I
I_UNICODE____I

```

column-spec:

```

>>__column-name_data-type_____>
I_NOT NULL_I

```

data-type:

```

>>__built-in-data-type_____>
I_distinct-type_name_I

```

```

> __SMALLINT__
|
| | | INT__ | |
|
| | | BIGINT__ |
|
| | | (5,0)
|
| | | DECIMAL__ | |
|
| | | DEC__ | | (integer) |
|
| | | NUMERIC__ | | integer__ |
|
| | | (34)
|
| | | DECFLOAT__
| | |
| | | (16) |
|
| | | (53)
|
| | | FLOAT__ | |
|
| | | (integer) |
|
| | | REAL__ |
|
| | | PRECISION__ |
|
| | | DOUBLE__ | |
|
| | | (1)
|
| | | CHARACTER__ | |
|
| | | | CHAR__ | | (length) | | | CCSID__ ASCII__ |
| | | | FOR__ SBCS__ DATA__ | |
| | | | CHARACTER__ VARYING__ (length) | | | EBCDIC__ | | MIXED__ |
| | |
| | | | CHAR__ | | | UNICODE__ |
| | |
| | | | VARCHAR__ |
| | |

```

```

| |                                     |(1M)_____
| |
| |____CHARACTER____LARGE OBJECT____
|_____|_____|| | | | |
| | |__CHAR_____| |_(integer)_| |__CCSID__ASCII__|
|_FOR__SBCS____DATA_| |
| |__CLOB_____| | |__EBCDIC__|
|_MIXED_| |
| |_____(1)_____ | |__UNICODE_|
|
|__GRAPHIC_|_____|_____
|_____|
| | |_(integer)_____| | |__CCSID__ASCII__|
|
| |__VARGRAPHIC__(integer)_____ | |__EBCDIC__|
|
| |_____(1M)_____ | |__UNICODE__|
|
| |__DBCLOB_|_____|
|
| |_(integer)_____|
|
| |_____(1)_____
|
|__BINARY__|_____|_____
|_____|
| | |_(integer)_____| |
|
| |__BINARY VARYING ____(integer)_____ |
|
| | |__VARBINARY_____| |
|
| | |_____(1M)_____ |
|
| |__BINARY LARGE OBJECT_____|_____|_____
|
| |__BLOB_____| | |_(integer)_____|
|
| | |
| | |
| | |
| | |
| | |
|
|__DATE_____|_____

```

```

|
| | _TIME_____ |
|
| | _____ (_6_) _____ _WITHOUT TIME ZONE_
|
|
| | _TIMESTAMP_ | _____ | _____ | _____
|
| _____ | _____ | _____ | _____ |
| | _____ | _____ | _____ | _____ |
|
| | _ROWID_____
|
|

```

CREATE INDEX

```

>> __CREATE_____ INDEX__index-name__ ON_____ >
| _UNIQUE_____ |
| _WHERE NOT NULL_ |
| _____ <_ , _____ _ASC_ | >_table-
name_( __column-name_____ | _____ | _____ ) >
| _____ | _key-expression_ | | _DESC_ | |
| _____ | _____ | _RANDOM_ | |
| _aux-table-name_____ |
> _____ ) _____ >
| _____, _____ _BUSINESS_TIME_ WITHOUT OVERLAPS_ |
| _____ | _WITH OVERLAPS_ |
< _____ >> _____
| _____ | >
| _XML index-specs_ | | _INCLUDE(column-name)_ | | _NOT CLUSTER_ |
| | _CLUSTER_____ | _____ |
| _PARTITIONED_____ |
| _NOT PADDED_____ |
| | _PADDED_____ | _____ |
| _free-block_____ |
| _using-block_____ |
| _gbpcache-block_____ |
| _____ _YES_ |
| _DEFINE_ | _NO_ | _____ |
| _____ _YES_ |
| _COMPRESS_ | _NO_ | _____ |
| _INCLUDE NULL KEYS_ |
| | _____ | |
| | _EXCLUDE NULL KEYS_ | |
> _____ >

```



```
>>__CREATE PROCEDURE__procedure-name_____>
      <_ ,_____
>__ (_____I__ )__option-list_____><
I parameter-declaration I parameter-declaration: IN
```

```
> __I_OUT__ I parameter-type >
    I_INOUT__ I I_parameter-name_I

parameter-type:
>> __data-type__ ><
I I_AS LOCATOR__ I I I_TABLE LIKE__ table-name__ AS LOCATOR_I I_view-
name__ I data-type: >> __built-in-data-
type__ >< I_distinct-type-
name_I built-in-data-type:
> __SMALLINT__
____ >< I I_INTEGER__ I I I INT__ I I I I_BIGINT__ I I I
____(5,0)_____ I
I __DECIMAL__ I _____ I
_____ I II_DEC_____ I I_(integer_____)_____ I I
II_NUMERIC_I I_, integer_I I I_(34)_ I I_DECFLOAT_
I_____ I
___ I I I_(16)_ I I I_(53)_____ I
I __FLOAT__ I _____ I
_____ I I I I_(integer__) I I I I_REAL_____ I I I I
PRECISION_ I I I I_DOUBLE_ I _____ I ___(1)_____ I
I _____ CHARACTER_____ I _____ I
_____ I I I I I_CHAR_____ I I_(length__)_____ I I I CCSID_ASCII__ I
I_FOR_SBCS__ DATA_I I I I I I_CHARACTER_VARYING__(length__)_ I
I_EBCDIC__ I I_MIXED_ I I I I I I_CHAR_____ I I I UNICODE_I I I I I
I_VARCHAR_____ I I I I I_(1M)_____ I I I I I_CHARACTER__ LARGE
OBJECT_ I _____ I _____ I I I I
I_CHAR_____ I I_(integer_)_ I I CCSID_ASCII__ I I_FOR_SBCS__ DATA_I I I
I __CLOB_____ I I EBCDIC__ I I MIXED_ I I I ___(1)_____
I_UNICODE_I I
I __GRAPHIC_I _____ I
_____ I I I I_(integer__)_____ I I I CCSID_ASCII__ I I I
I_VARGRAPHIC__(integer__)_____ I I EBCDIC__ I I I I
__(1M)_____ I UNICODE_I I I I I_DBCLOB_I _____ I I I
I(integer)_____ I I I_(1)_____ I I
I_BINARY_I _____ I
_____ I I I I_(integer)_____ I I I I I_BINARY VARYING
_(integer)_____ I I I I I VARBINARY_____ I I I I I
_(1M)_____ I I I I I_BINARY LARGE
OBJECT_____ I _____ I _____ I I I BLOB_____ I
I_(integer_____)_____ I I I I_K_I I I I M_I I I I G_I I
I __DATE_____
_____ I I I TIME_____ I I I I ___(6_)_____ WITHOUT TIME ZONE_ I I
I_TIMESTAMP_I _____ I _____ I
_____ I I I (integer_)_ I I WITH TIME ZONE_____ I I
I_ROWID_____
_____ I option-list: _DYNAMIC RESULT SET 0_____ I
>> I _____ I _____ >
```

```

I_DYNAMIC_RESULT SET integer_I
>
I_PARAMETER CCSID_ASII_I
I_EBCDIC_I
I_UNICODE_I
I_VARCHAR NULTERM_I
I_STRUCTURE_I
> _EXTERNAL LANGUAGE ASSEMBLE
I_NAME 'string' I_C
I_identifier I_COBOL
I_JAVA
I_PLI
I_REXX
I_PARAMETER STYLE SQL
> I
I_PARAMETER STYLE
I_I
I_GENERAL
I_GENERAL WITH NULLS
I_JAVA
I_NOT DETERMINISTIC I_FENCED
> I
I_DETERMINISTIC
I_CALLED ON NULL INPUT I_MODIFIES SQL DATA
> I
I_NO SQL
I_CONTAINS SQL
I_READS SQL DATA
I_NO PACKAGE PATH
> I
I_PACKAGE PATH package-path
I_NO DBINFO I_NO COLLID
> I
I_DBINFO I_COLLID collection-id
>
I_WLM ENVIRONMENT name_I
I_(name,*)_I
I_ASUTIME NO LIMIT I_STAY RESIDENT NO
> I
I_ASUTIME LIMIT integer_I I_STAY RESIDENT YES_I
I_PROGRAM TYPE MAIN I_SECURITY DB2
> I
I_PROGRAM TYPE SUB I_SECURITY USER

```

```

                                I_SECURITY DEFINER_____I
    _STOP AFTER SYSTEM DEFAULT FAILURES____
> _I_____I_____>
    I_STOP AFTER integer FAILURES_____I
    I_CONTINUE AFTER FAILURE_____I
                                _COMMIT ON RETURN NO____
> _____I_____I_____>
    I_RUN OPTIONS__run-time-options_I    I_COMMIT ON RETURN YES_I
    _INHERIT SPECIAL REGISTERS_____    _CALLED ON NULL INPUT_
> _I_____I_____I_____>
    I_DEFAULT SPECIAL REGISTERS_I
> _____>>
I_DISABLE DEBUG MODE____I
    I_ALLOW DEBUG MODE_____I
    I_DISABLE DEBUG MODE____I

```

external-java-routine-name

```

I_____method-name_____I
I_jar-name:_____I_method-signature_I

```

jar-name

```

I_____jar-id_____I
I_schema-name._I

```

method-name

```

<_____
I_____I_class-id_____method-id_____I
I_package-id_.______|_!_____|
I_/_____|

```

method-signature

```

I_____I
I_(_____)_I
I_<_,_____|
I__java-datatypeI_I

```

CREATE PROCEDURE (SQL – external)

```

>> __CREATE PROCEDURE__procedure-name_____>
    <_,_____>__(_____)_option-
list__SQL-routine-body_____>< I_parameter-declaration_I parameter-
declaration: _IN_____>__I_OUT_____I_____parameter-
type_____>
    I_INOUT_____| I_parameter-name_I

```

parameter-type:

[illegible]

```

> _PARAMETER _VARCHAR_____ _NULTERM_____>
      | _STRUCTURE_____|
      | _NOT DETERMINISTIC_|
> _|_____|_____>
      | _DETERMINISTIC_____|
      | _CALLED ON NULL INPUT_____| _MODIFIES SQL DATA_|
> _|_____|_____|_____|_____>
      | _NO SQL_____|
      | _CONTAINS SQL_____|
      | _READS SQL DATA_____|
      | _NODBINFO_____| _NO COLLID_____
> _|_____|_____|_____|_____>
      | _COLLID__collection-id_|
> _____>
      | _WLM ENVIRONMENT__name_____|
      | _((__name__,*__)_|
      | _ASUTIME NO LIMIT_____| _STAY RESIDENT NO_|
> _|_____|_____|_____|_____>
      | _ASUTIME__LIMIT__integer_| | _STAY RESIDENT YES_|
      | _PROGRAM TYPE MAIN_____| _SECURITY DB2_____
> _|_____|_____|_____|_____>
      | _PROGRAM TYPE SUB_____| | _SECURITY USER_____|
      | _____| | _SECURITY DEFINER_____|
      | _STOP AFTER SYSTEM DEFAULT FAILURES_____|
> _|_____|_____>
      | _STOP AFTER integer FAILURES_____|
      | _CONTINUE AFTER FAILURE_____|
      | _____| _COMMIT ON RETURN NO_|
> _____|_____|_____>
      | _RUN OPTIONS__run-time-options_| | _COMMIT ON RETURN YES_|

      | _INHERIT SPECIAL REGISTERS_____| _CALLED ON NULL INPUT_|
> _|_____|_____|_____|_____>
      | _DEFAULT SPECIAL REGISTERS_|
</_>

```

CREATE PROCEDURE (SQL native)

```

>> _CREATE PROCEDURE__procedure-name_____>
      | _((_____)_|
      | _____|
      | _____| _parameter decaration_|
      | _VERSION V1_____|
> _|_____|_____SQL-routine-body_____|>
      | _VERSION routine ver-id_| | _option-list_|

```

```
> |__IN__| __parameter-name__ parameter-type_____|>  
    |__OUT__|  
    |__INOUT__|
```

```
>>__built-in-data-type____><  
|_TABLE LIKE __table-name__AS LOCATOR_| |view-name_| built-in-data-type:  
> _SMALLINT_____|  
_____| |INTEGER_| | | INT_| | | BIGINT___| | |  
(5,0) _____|  
|_DECIMAL_____| _____|  
_____| |DEC_____| |_(integer_____)_____| |  
||NUMERIC_| |_, integer_| | |(34)_| |DECFLOAT_  
|_____|  
_____| | |(16)_| | |(53)_____| |  
|_FLOAT_____| _____|  
_____| | |_(integer_)_| | |REAL_____| | | |  
PRECISION_| | |DOUBLE_| _____| | |__(1)_____| |  
|_____CHARACTER_____| _____|  
_____| | | |CHAR_____| | |(length__)_____| | |CCSID_ASCII_____|  
|FOR_SBCS____DATA_| | | |CHARACTER_VARYING__(length__)_|  
|EBCDIC_| |MIXED_| | | |CHAR_____| | |UNICODE_| | | |  
|VARCHAR_____| | | | |(1M)_____| | | |CHARACTER_LARGE  
OBJECT_| _____| | | |  
|CHAR_____| | |_(integer_)_| | CCSID_ASCII_____| |FOR_SBCS____DATA_| | |  
|CLOB_____| | EBCDIC_| | MIXED_| | |__(1)_____|  
|UNICODE_| | |  
|GRAPHIC_| _____|  
_____| | | |_(integer_____)_____| | |CCSID_ASCII_____| | | |  
|VARGRAPHIC__(integer_____)_____| | EBCDIC_| | | | | | |
|(1M)_____| | UNCODE_| | | DBCLob_| _____| | |  
|(integer)_____| | |__(1)_____| | |  
BINARY_| _____|  
_____| | | |_(integer)_____| | | BINARY VARYING  
_(integer)_____| | | VARBINARY_____| | | | |  
_(1M)_____| | | BINARY LARGE  
OBJECT_____| _____| | | BLOB_____| _____|  
|_(integer_____)_____| | | K_| | M_| | G_| |  
|DATE_____|  
_____| | | TIME_____| | | |(6_)_____| WITHOUT TIME ZONE_| | |  
|TIMESTAMP_| _____| _____|  
_____| | |_(integer_)_| | WITH TIME ZONE_____| | |  
XML_____|  
_____| option-list: NOT DETERMINISTIC MODIFIES SQL DATA >>_  
| | |
```

```

I_DETERMINISTIC_____ I_READS SQL DATA_____|
I_CONTAINS SQL_____|
CALLED ON NULL INPUT_ DYNAMIC RESULT SETS 0_____
> _| _____ | _____ >
I_DYNAMIC RESULT SETS__integer_|
>
I_DISALLOW DEBUG MODE_| I_PARAMETER CCSID ASCII___|
I_ALLOW DEBUG MODE_____| I_PARAMETER CCSID EBCDIC___|
I_DISABLE DEBUG MODE___| I_PARAMETER CCSID UNICODE___|
>
I_QUALIFIER__schema_name_|
>
I_PACKAGE OWNER__authorization_name_|
ASUTIME NO LIMIT_____ COMMIT ON RETURN NO___
> _| _____ | _____ >
I_ASUTIME LIMIT__integer_| I_COMMIT ON RETURN YES_|
I_AUTONOMOUS_____|
INHERIT SPECIAL REGISTERS_
> _| _____ | _____ >
I_DEFAULT SPECIAL REGISTERS_|
STOP AFTER SYSTEM DEFAULT FAILURES_
> _| _____ | _____ >
I_STOP AFTER__integer__FAILURES_____|
I_CONTINUE AFTER FAILURE_____|
>
I_WLM ENVIRONMENT FOR DEBUG MODE__name_|
CURRENT DATA NO___ DEGREE 1___
> _____ | _____ | _____ >
I_DEFER PREPARE___ I_CURRENT DATA YES_| I_DEGREE ANY_|
I_NODEFER PREPARE_|
> _____ CONCURRENT ACCESS RESOLUTION USE CURRENTLY COMMITTED_____ >
I_CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME_____|
DYNAMICRULES RUN_____
> _| _____ | _____ >
I_DYNAMICRULES BIND_____|
I_DYNAMICRULES DEFINEBIND_|
I_DYNAMICRULES DEFINERUN___|
I_DYNAMICRULES INVOKEBIND_|
I_DYNAMICRULES INVOKERUN___|
>
I_APPLICATION ENCODING SCHEME ASCII___|
I_APPLICATION ENCODING SCHEME EBCDIC___|
I_APPLICATION ENCODING SCHEME UNICODE___|
WITHOUT EXPLAIN_ WITHOUT IMMEDIATE WRITE_
> _| _____ | _____ >

```

```

I_WITH EXPLAIN____ I   I_WITH IMMEDIATE WRITE____ I

  _ISOLATION LEVEL CS_   _WITHOUT KEEP DYNAMIC_
> _ I_____ I_____ I_____ >
  I_ISOLATION LEVEL RS_ I   I_WITH KEEP DYNAMIC____ I
  I_ISOLATION LEVEL RR_ I
  I_ISOLATION LEVEL UR_ I
  _OPTHINT_____
> _ I_____ I_____ >
  I_OPHINT__string-constant____ I
> _____ >
  I_SQL PATH__schema_name_____ I
  I_SQL PATH__schema_name_list_____ I
  I_SQL PATH__SESSION_USER or USER_ I
  I_SQL PATH__DEFAULT_____ I

> _____ >
  I_QUERY ACCELERATION NONE_____ I   I_GET_ACCEL_ARCHIVE NO____ I
  I_QUERY ACCELERATION ENABLE_____ I   I_GET_ACCEL_ARCHIVE YES____ I
  I_QUERY ACCELERATION ENABLE WITH FAILBACK_ I
  I_QUERY ACCELERATION ELIGIBLE_____ I
  I_QUERY ACCELERATION ALL_____ I

  _RELEASE AT COMMIT_____   _REOPT NONE_____
> _ I_____ I_____ I_____ >
  I_RELEASE AT DEALLOCATE____ I   I_REOPT ALWAYS____ I
                                   I_REOPT ONCE_____ I

  _VALIDATE RUN_____
> _ I_____ I_____ >
  I_VALIDATE BIND_ I I_ROUNDING DEC_ROUND_CEILING____ I
                    I_ROUNDING DEC_ROUND_DOWN_____ I
                    I_ROUNDING DEC_ROUND_FLOOR_____ I
                    I_ROUNDING DEC_ROUND_HALF_DOWN_ I
                    I_ROUNDING DEC_ROUND_HALF_EVEN_ I
                    I_ROUNDING DEC_ROUND_HALF_UP____ I
                    I_ROUNDING DEC_ROUND_UP_____ I

> _____ >
  I_DATE FORMAT ISO____ I   I_DECIMAL(15)____ I
  I_DATE FORMAT EUR____ I   I_DECIMAL(31)____ I
  I_DATE FORMAT USA____ I   I_DECIMAL(15,s)____ I
  I_DATE FORMAT JIS____ I   I_DECIMAL(31,s)____ I
  I_DATE FORMAT LOCAL_ I

  _FOR UPDATE CLAUSE REQUIRED_

```

```

> _____|_____|_____>
|_FOR UPDATE CLAUSE OPTIONAL_| |_TIME FORMAT ISO_|
|_TIME FORMAT EUR_|
|_TIME FORMAT USA_|
|_TIME FORMAT JIS_|
|_TIME FORMAT LOCAL_|

> _____>
|_YES_| |_YES_|
|_SYSTIMESENSITIVE(_____)_| |_BUSTIMESENSITIVE(_____)_|

> _____>
|_YES_| |
|_ARCHIVESENSITIVE(_____)_| |_APPLCOMPAT(_____)_|

```

CREATE ROLE

```

>>__CREATE ROLE__role-name_____>

```

CREATE SEQUENCE

```

>>_CREATE SEQUENCE_sequence-name_____<_ ,_____>|_><|
_INTEGER_| |_AS_|_data-type_|_____| |_START WITH_numeric-
constant_| |_INCREMENT BY 1_____|
|_|_____|| | |_INCREMENT BY_numeric-constant_| | |
_NO MINVALUE_____| | |_____|_____| |
|_MINVALUE_numeric-constant_| | |_NO MAXVALUE_____|
|_|_____|_____| | |_MAXVALUE_numeric-constant_| | |
_NO CYCLE_| | |_____| | |_CYCLE_| | |_CACHE
20_____| | |_____|_____| | |_NO
CACHE_____| | | |_CACHE_integer-constant_| | | |_NO ORDER_|
|_| |_____| |_ORDER_|_data-type: >>__built-in-
type_____>
|_distinct-type-name_|

```

built-in-type:

```

>_SMALLINT_____><
| |_INTEGER_| | |
| | |_INT_| |
| |_BIGINT_| |
| _____(5,0)_____|
|_DECIMAL_|_____|_|
|_DEC_| |_(____integer_____)_|
|_numeric_| |_,integer_|

```

CREATE STOGROUP

```
<_ , _____ >>__CREATE
STOGROUP__stogroup-name__VOLUMES(____volume-id|_____)____>
|_____/____<_ ,_____|
|_____'*'_____|_____|>__VCAT__catalog-
name_____>
>_____><
|_DATACLASdc-name_| |_MGMTCLASmc-name_| |_STORCLASsc-name_|
```

CREATE TABLE

```
>>__CREATE TABLE__table-name_____>
<_ , _____>__(<____column-
definition_____|_____)____>
|_____|_period-definition_____|_____| | |
|_____|_unique-constraint_____|_____|
|_____|_referential-constraint_|_____|
|_____|_check-constraint_____|_____|
|__LIKE__table-name____copy-options_____|_____|
|_|_view-name_|_|_____|_____|
|_|_as-result-table_____|_copy-options_____|_____|
|_materialized-query-definition_____|_____|
<_____>_____
|_____><
|__IN_____table-space-name_|
|_|_database-name_|_|_| | |
|_|_IN DATABASE__database-name_____|_|
|_partitioning-clause_____|_____|
|_organization-clause_____|_____|
|_____WITH ROW ATTRIBUTES_____|_____|
|_EDITPROC_prg-name_|_____|_____|
|_____WITHOUT ROW ATTRIBUTES_|_____|
|_VALIDPROC__program-name_____|_____|
|_____NONE_____|_____|
|_AUDIT_____|_CHANGES_|_____|_____|
|_____ALL_____|_____|_____|
|_OBID__integer_____|_____|_____|
|_____NONE_____|_____|_____|
|_DATA CAPTURE_____|_CHANGES_|_____|_____|
|_WITH RESTRICT ON DROP_____|_____|_____|
|_CCSID_____|_ASCII_____|_____|_____|
|_____EBCDIC_____|_____|_____|
|_____UNICODE_____|_____|_____|
|_NOT VOLATILE_____|_CARDINALITY_____|_____|
|_|_____|_|_____|_____|_____|
```

```

| | | _CARDINALITY_ | | |
| | | _VOLATILE_ | | |
| | | _LOGGED_ | |
| | | | |
| | | _NOT LOGGED_ | |

| | | _COMPRESS NO_ | | | | |
| | | | |
| | | | _COMPRESS YES_ | |
| | | | _NO_ | |
| | | | _APPEND_ | | _YES_ | |
| | | | _DSSIZE_ integer_G | |
| | | | _BUFFERPOOL_ bpname | |
| | | | _MEMBER CLUSTER | |
| | | | _TRACKMOD YES_ | |
| | | | | |
| | | | | _TRACKMOD NO_ | |
| | | | |

| | | | _PAGENUM RELATIVE_ | |
| | | | _PAGENUM ABSOLUTE_ | |

```

column-definition:

```

< _____
>> __column-name__ data-type_____ | __>
> _____>>
| | _NOT NULL_____ | | | | | | | | | | | | |
| | _____ PRIMARY KEY_____ |
| | | | _CONSTRAINT__constraint-name_| | | | _UNIQUE_____ | |
| | | | | | _references-clause_____ | |
| | | | | | _CHECK(check-condition)_____ | |
| | | | _WITH_ | |
| | | | | _DEFAULT_____ |
| | | | | | | _constant_____ | |
| | | | | | | _SESSION USER_____ | |
| | | | | | | | _USER_____ | |
| | | | | | | | _CURRENT SQLID_____ | |
| | | | | | | | _NULL_____ | |
| | | | | | | | _cast-function-name_(constant_)_____ | |
| | | | | | | | | | _SESSION USER_____ | |
| | | | | | | | | | | _USER_____ | |
| | | | | | | | | | | _CURRENT SQLID_____ | |
| | | | | | | | | | | _NULL_____ | |
| | | | | _GENERATED_____ ALWAYS_____ |
| | | | | | | | _BY DEFAULT_| | | | _as-identity-clause_____ | | |
| | | | | | | | | | | _as-row-change-timestamp-clause_| | |
| | | | | | | | | | | _GENERATED_____ ALWAYS_____ | |
| | | | | | | | | | | | | _as-row-transaction-timestamp-clause_| |

```

```

|_as-row-transaction-start-id-clause_|
|_as-generated-expression-clause_|
|_references-clause_|
|_column-constraint_|
|_FIELDPROC__program-name_|
|_<_,_|
|_(__constant_|)|_AS SECURITY
LABEL_|_IMPLICITY
HIDDEN_|_INLINE
LENGTH_|data-type:
>_SMALLINT_|
_|>_|_INTEGER_|_INT_|_BIGINT_|
_(5,0)|
|_DECIMAL_|
_|_DEC_|_(integer_)|
|_NUMERIC_|_, integer_|_(34)|_DECFLOAT_|
_|_(16)|_(53)|
|_FLOAT_|
_|_(integer_)_|_REAL_|
_PRECISION_|_DOUBLE_|_(1)|
|_CHARACTER_|
_|_CHAR_|_(length_)_|_CCSID_ASCII_|
|_FOR_SBCS__DATA_|_CHARACTER_VARYING_(length_)_|
|_EBCDIC_|_MIXED_|_CHAR_|_UNICODE_|
|_VARCHAR_|_(1M)|_CHARACTER__LARGE
OBJECT_|
|_CHAR_|_(integer_)_|_CCSID_ASCII_|_FOR_SBCS__DATA_|
|_CLOB_|_EBCDIC_|_MIXED_|_(1)|
|_UNICODE_|
|_GRAPHIC_|
_|_(integer_)_|_CCSID_ASCII_|
|_VARGRAPHIC_(integer_)_|_EBCDIC_|
_(1M)|_UNICODE_|_DBCLOB_|
|_(integer_)_|_(1)|_
_BINARY_|
_|_(integer_)_|_BINARY VARYING
_(integer_)_|_VARBINARY_|
_(1M)|_BINARY LARGE
OBJECT_|_BLOB_|
|_(integer_)_|_K_|_M_|_G_|
|_DATE_|
_|_TIME_|_(6_)_|_WITHOUT TIME ZONE_|
|_TIMESTAMP_|
_|_(integer_)_|_WITH TIME ZONE_|
|_ROWID_|
|_XML_|_XML-type-

```

```

modifier_)_____I
XML-type-modifier: >>__XMLSCHEMA XML-schema-
specification_____>
I_ELEMENT_element-name_I

```

XML-schema-specification:

```

>>__ID registered-XML-schema-name_____>
I_URL target-namespace_____I
I_NO NAMESPACE_____I I_LOCATION_schema-location_I

```

as-identity clause:

```

>>__AS IDENTITY_____><
I <_,_____I I _1_____I I
I_(_____START WITH_I_numeric-constant_I_____I_)I I _1_____I
I_INCREMENT BY_I_numeric-constant_I_____I I _CACHE 20_____I I_I_NO
CACHE_____I_____I I I_CACHE_integer_I I I _NO CYCLE_ I
I_I_CYCLE_____I_____I I _NO MAXVALUE_____I
I_I_MAXVALUE_numeric-constant_I_____I I _NO MINVALUE_____I
I_I_MINVALUE_numeric-constant_I_____I I _NO ORDER_ I
I_I_____I_____I I ORDER_____I as-row-change-timestamp-

```

clause: >>__FOR EACH ROW__ON UPDATE__AS ROW

```

CHANGE__TIMESTAMP_____>< as-row-transaction-timestamp-clause:

```

```

>>__AS ROW__BEGIN_____><

```

```

I_END_I as-row-transaction-id-clause: >>__AS TRANSACTION START
ID_____>< as-generated-expression-

```

clause: >>__AS (_non-deterministic-

```

expression_)_____>< non-deterministic-

```

expression: >>__DATA CHANGE

```

OPERATION_____>< I_special-

```

```

register_____I I_session-variable_____I special register: >>__CURRENT

```

```

CLIENT_ACCTNG_____>< I_CURRENT

```

```

CLIENT_APPLNAME_____I I_CURRENT CLIENT_CORR_TOKEN_____I I_CURRENT

```

```

CLIENT_USERID_____I I_CURRENT CLIENT_WRKSTNNAME_____I I_CURRENT

```

```

SERVER_____I I_CURRENT SQLID_____I

```

```

I_SESSION_USER_____I session-variable:

```

```

>>__SYSTEM.PACKAGE_NAME_____><

```

```

I_SYSTEM.PACKAGE_SCHEMA_____I I_SYSTEM.PACKAGE_VERSION_____I

```

```

column-constraint: >>_____PRIMARY

```

```

KEY_____>< I_CONSTRAINT_constraint-name_I I_UNIQUE_____I

```

```

I I_references clause_____I I_CHECK(_check-condition_)_____I

```

period-definition: _FOR_

```

>>__PERIOD_I_____I_____><>_

```

```

SYSTEM_TIME_____(_begin-column-name, end-column-name_)_____><

```

```

I_BUSINESS_TIME_____(_begin-column-name, end-column-name_)_EXCLUSIVE_____I

```

```

I_INCLUSIVE_____I

```

unique-constraint:


```

        _RANGE_      </_><_ , _____ >> __PARTITION
BY __I_____I__(_partition-expression_I_)_____>
        I_SIZE_____I
        I__EVERY_ integer-constant_G_I
    </_><_ , _____ >__(_partition-
element_____I__)_____>< partition-
expression: _NULLS LAST_ _ASC_ >> __column-
name_I_____I__I_____I_____>< I_DESC_I
partition-element: _AT_
>> __PARTITION__integer__ENDING__I____I__(__constant_I_)_____>
        I_MAXVALUE_I
        I_MINVALUE_I
        I_INCLUSIVE_
> __HASH SPACE__integer____K_____I_____I_____><
I_M_I
        I_G_I

```

organization-clause:

```

    <_____ _HASH SPACE_64M_____ >> _UNIQUE__( _column-
name_)_I____I_____I_____>
        I_HASH SPACE_integer__K____I
        I_M_I
        I_G_I

```

materialized-query-definition:

```

>> __ _____ _AS_(fullselect)_____>
    I_____ </_><_ , _____ I I_(____column-name_I_)_I >__
_____>< I_

```

```

refreshable-table-options_____I refreshable-table-options: >> __DATA INITIALLY
DEFERRED __REFRESH DEFERRED_____>

```

```

    <_____>__
_____I_____>< I
__MAINTAINED BY SYSTEM__ I
    I_I_____I_____I
    I I_MAINTAINED BY USER__I_____I
    I _ENABLE QUERY OPTIMIZATION__I I
    I_I_____I_I
    I_DISABLE QUERY OPTIMIZATION_

```

CREATE TABLESPACE

```

>> __CREATE_____TABLESPACE__table-space-name_____>
        I_LOB_I          I_____DSNDB04_____I
        I_IN_I_database-name_I_I
<_____>_____I_____

```

```

____>
|_using-block____|          |_DSSIZE__integer__G_|
|_free-block____|
|_gbpcache-block_|
|_trackmod-block_|
|          _YES_|
|_DEFINE__|_NO__|_|
|_ _LOGGED_____|
|_|_____|_|
|_NOT LOGGED_|

<____>
____|_>< |_partition-by-growth-specifications_|
|_BUFFERPOOL__bpname_____|_|_partition-by-range-specifications_|_| | | | | | | | | | | | |
|_ANY_____|_|_SEGSIZE integer_____|
|_LOCKSIZE_|_|_TABLESPACE_|_|_|_|_TABLE_____|_|_|_|_PAGE_____|_|_|
|_ROW_____|_|_|_|_LOB_____|_|_|_|_LOCKMAX__SYSTEM_____|_|
|_integer_|_|_|_|_YES_|_|_|_|_CLOSE_|_NO_|_|_____|_|_|_|_NO__|
|_COMPRESS_|_|_YES_|_|_____|_|_CCSID__ASCII_____|_|_|_|_EBCDIC_|_|_|
|_UNICODE_|_|_|_|_MAXROWS__integer_____|_|_SEGSIZE integer_____|
|_____|_|_|_|_PAGENUM RELATIVE_|_|_PAGENUM ABSOLUTE_| using-
block:
>> __USING____>
>__VCAT__catalog-
name____>< |
<_____|
|_STOGRUP__stogroup-name_____|_|_|
|_|_|_|_|
|_PRIQTY__integer_|
|_SECQTY__integer_|
|_|_|_|_|_NO__|_|
|_ERASE_|_|_YES_|_|_|

free-block:
<_____|_0_____|
>> __FREEPAGE__|_integer_|_|_|>
< | _5_____|_|_|_|_PCTFREE__|_integer_|_|_| gbpcache-block: _CHANGED_
>> __GBPCACHE__|_ALL_____|_|><
|_SYSTEM_|_|_|_|_NONE_____| trackmod-block: _YES_
>> __TRACKMOD__|_NO__|_|><
partition-by-growth-specification:
>____><
>_MAXPARTITIONS integer_____|_|><
|_MEMBER CLUSTER_____|
|_|_|_|_|
|_NUMPARTS integer_____|
|_|_|_|_|_ALLOW MULTIPLE TABLES NO_|_|
|_|_|_|_|_|
|_|_|_|_|
|_|_|_|_|_ALLOW MUTLIPLIE TABLES YES_|

```

```

|
|_NUMPARTS_integer_____|_____| | | |
|    |    <_,_____||_MEMBER CLUSTER_|
|    |    |    <_____|    |
|    |    |    |(_PARTITION_integer _using-block_ |_)_|
|    |    |    |_free-block_____|
|    |    |    |_gbpcache-block_____|
|    |    |    |_trackmod-block_____|
|    |    |    |_NO_|
|    |    |    |_COMPRESS_|_YES_|
|    |    |    |_DSSIZE_integer_G_|
|_MEMBER CLUSTER_____|

```

```

__VERSION V1____
>>_CREATE_____TRIGGER_trigger-name_|_____|>
      |_OR REPLACE_|      |_VERSION trigger-version-id_|
>_NO CASCADE BEFORE_____>
  |_AFTER_____|
  |_INSTEAD OF_____|
>_INSERT_____ON__table-name_____>
  |_DELETE_____|      |_view-name_|
  |_UPDATE_____|
      |<_,_____||_OF__column-name_|__|
>_____>
  |<_____||_AS_|_|
|_REFERENCING_____OLD_|_|_correlation-name_____|_|_AS_|
|_NEW_|_|_correlation-name_____|_|_AS_|_|_OLD
TABLE_____|_|_identifier_|_|_AS_|_|_NEW TABLE_____|_|_identifier_|
>_____FOR EACH ROW_____MODE DB2SQL__NOT SECURED__triggered-action____><
|_FOR EACH STATEMENT_|_|_SECURED_____|triggered-action:
>>_____SQL trigger body_____>
  |_WHEN ( _search-condition _)|

```

```
> _____SQL-control-statement_____><
|_trigger-SQL-statement_| option-list: >__DISALLOW DEBUG
MODE      APPLICATION ENCODING SCHEME ASCII      >
```

```

I_ALLOW DEBUG MODE___I I_APPLICATION ENCODING SCHEME EBCDIC___I
I_DISABLE DEBUG MODE_I I_APPLICATION ENCODING SCHEME UNICODE_I
>_QUALIFIER schema-name___ ASUTIME_NO LIMIT_____>
      I_ASUTIME LIMIT_int_I
>_____>
      I_WLM ENVIRONMENT FOR DEBUG MODE name___I

>_CURRENT DATA NO_____CONCURRENT ACCESS RESOLUTION USE CURRENTLY COMMITTED_>
      I_CURRENT DATA YES_II_CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME_____I

>_____DYNAMICRULES RUN_____WITHOUT IMMEDIATE WRITE_____>
      I_DYNAMICRULES BIND_____I I_WITH IMMEDIATE WRITE___I

>_WITHOUT EXPLAIN___ISOLATION LEVEL CS_____OPHINT_ ' ' _____>
      I_WITH EXPLAIN___II_ISOLATION LEVEL RS_I I_OPHINT_string-constant_I
      I_ISOLATION LEVEL RR_I
      I_ISOLATION LEVEL UR_I
      <_ , _____>_SQL PATH_schema-nameI_____RELEASE AT
COMMIT_____>
      I_SCHEMA PATH_I I_RELEASE AT DEALLOCATE_I
      I_SESSION USER_I
      I_USER_I

>_____>
      I_ROUNDING DEC_ROUND_CEILING___I I_DATE FORMAT ISO___I
      I_ROUNDING DEC_ROUND_DOWN_____I I_DATE FORMAT EUR___I
      I_ROUNDING DEC_ROUND_FLOOR_____I I_DATE FORMAT USA___I
      I_ROUNDING DEC_ROUND_HALF_DOWN_I I_DATE FORMAT JIS___I
      I_ROUNDING DEC_ROUND_HALF_EVEN_I I_DATE FORMAT LOCAL_I
      I_ROUNDING DEC_ROUND_HALF_UP___I
      I_ROUNDING DEC_ROUND_UP_____I

>_____FOR UPDATE CLAUSE REQUIRED_____>
      I_DECIMAL(15)___I I_FOR UPDATE CLAUSE OPTIONAL_I
      I_DECIMAL(31)___I
      I_DECIMAL(15,s)_I
      I_DECIMAL(31,s)_I

>_____>
      I_TIME FORMAT ISO___I I_NOT SECURED_I
      I_TIME FORMAT EUR___I I_SECURED_____I
      I_TIME FORMAT USA___I
      I_TIME FORMAT JIS___I
      I_TIME FORMAT LOCAL_I

>_____>
      I_____YES___I I_____YES___I
      I_SYSTIMESENSITIVE(_I_NO__I_)_I I_BUSTIMESENSITIVE(_I_NO__I_)_I
>_____>

```

```

|_YES_|_|_|
|_ARCHIVESENSITIVE(_|_NO_|_|)|_|_|_APPLCOMPAT(_|_V12R1_|_|)|
>_____|><
|_CONCENTRATE STATEMENTS OFF_____|
|_CONCENTRATE STATEMENTS WITH LITERALS_|

```

CREATE TRIGGER(basic)

```

>>__CREATE TRIGGER__ trigger-name____NO CASCADE BEFORE____>
|_AFTER_____|
|_INSTEAD OF_____|
>____INSERT____ON__table-name____>
|_DELETE_____|
|_UPDATE_____|
|<_,_____|_|_OF__column-name_|_|
>_____|
|<_____|_|_AS_|_|
|_REFERENCING____OLD_|_|_|correlation-name_____|_|_|_AS_|
|_NEW_|_|_|correlation-name_____|_|_AS_|_|_OLD
TABLE_____|_|_|identifier_|_|_AS_|_|_NEW TABLE_____|_|_|identifier_|
>____FOR EACH ROW____MODE DB2SQL__NOT SECURED__triggered-action____><
|_FOR EACH STATEMENT_|_|_SECURED_____|triggered-action:
>>____SQL trigger body____>
|_WHEN__(__search-condition__)_|
|_____|>__BEGIN ATOMIC____triggered-
SQL-statement____;_|_|_END_____|><

```

CREATE TRUSTED CONTEXT

```

>>__CREATED TRUSTED CONTEXT__context-name____>
>__BASED UPON CONNECTION USING SYSTEM AUTHID__authorization-name____>
|_NO DEFAULT ROLE_____|_|_DISABLE_|
>_|_____|_|_|>
|_____|_|_WITHOUT ROLE AS OBJECT OWNER_|_|_|_ENABLE_|
|_DEFAULT ROLE_role-name_|_|_|_|
|_____|_|_WITH ROLE AS OBJECT OWNER_____|
|_NO DEFAULT SECURITY LABEL_____|
>_|_____|_|>
|_DEFAULT SECURITY LABEL seclabel-name_____|
|_____|>
>__ATTRIBUTES__(____ADDRESS__address-value_____|_____|>
|_|_ENCRYPTION_encryption-value_|_|_|
|_|_SERVAUTH_servauth-value_____|_|_|
|</_><_,_____|_|_|_JOBNAME_jobname-
value_____|_|_|

```

```

> __SMALLINT__
____>< | | _INTEGER_ | | | | INT_ | | | | _BIGINT_ | | |
____(5,0)____ |
| _DECIMAL_ | _____ |
____ | | _DEC_ | | (_integer____)____ | |
| | _NUMERIC_ | | , integer_ | | | _ (34)_ | | _DECFLOAT_
| _____ |
____ | | | _ (16)_ | | | _ (53)_ _____ |
| _FLOAT_ | _____ |
____ | | | | (_integer_) | | | | _REAL_ _____ | | | |
| _PRECISION_ | | | | _DOUBLE_ | _____ | _ | | | | ____ (1) _____ |
| _____ _CHARACTER_ | _____ |
____ | | | | | _CHAR_ _____ | | _ (length_) _____ | | | _CCSID_ _ASCII_ |
| _FOR_ _SBCS_ _____ _DATA_ | | | | | | _____ _CHARACTER_ _VARYING_ (_length_) |
| _EBCDIC_ | | _MIXED_ | | | | | | | _CHAR_ _____ | | | | _UNICODE_ | | | | |
| _VARCHAR_ _____ | | | | | | _ (1M) _____ | | | | | _____ _CHARACTER_ _____ _LARGE
OBJECT_ | _____ | _____ | | | | |
| _CHAR_ _____ | | _ (integer_) | | | _CCSID_ _ASCII_ | | _FOR_ _SBCS_ _____ _DATA_ | | |
| _____ _CLOB_ _____ | | _EBCDIC_ | | _MIXED_ | | | | ____ (1) _____
| _UNICODE_ | |
| _____ _GRAPHIC_ | _____ |
____ | | | | | (_integer____)____ | | | | _CCSID_ _ASCII_ _____ | | |
| _VARGRAPHIC_ ( integer ) _____ | | | _EBCDIC_ | | | |

```

```

__(1M)_____ | _UNICODE_ | | | | _DBCLOB_ | _____ | | |
|_(integer)_____ | | | |_(1)_____ | | |
|_BINARY_ | _____ |
_____ | | | |_(integer)_ | | | | | _BINARY VARYING
_(integer)_____ | | | | | _VARBINARY_____ | | | | |
_(1M)_____ | | | | _BINARY LARGE
OBJECT_____ | _____ | _____ | | | | _BLOB_____ |
|_( __integer_____ ) _____ | | | | _K_ | | | | _M_ | | | | _G_ | |
|_DATE_____
_____ | | _TIME_____ | | | |_(6_)_____ _WITHOUT TIME ZONE_ |
|_TIMESTAMP_ | _____ | _____ | _____
_____ | |_(integer_) | | _WITH TIME ZONE_____ | data-type2:
> _____ INTEGER _____ >
| | _INT_ | _____ |
| _VARCHAR_____ (integer) _____ |
| _CHARACTER_VARYING_ | | _CCSID_ ASCII_____ | | _FOR_SBCS_____ DATA_ | | |
| | | | | _EBCDIC_ | | _MIXED_ |
| | | | | _UNICODE_ | | _BIT_ |

```

CREATE TYPE(distinct)

```

>> __CREATE TYPE_distinct-type-name_AS_source-data-type_____ >
> _____ >
|_INLINE LENGTH_integer_|

```

source-data-type:

```

> __SMALLINT_____
_____ >< | | _INTEGER_ |
|
| | | _INT_ | |
|
| | _BIGINT_ |
|
| _____ (5,0) _____
|
| _DECIMAL_ | _____ | _____
|
| | _DEC_ | |_( __integer_____ ) _____ |
|
| | _NUMERIC_ | _____ |_, integer_|
|
| _____ (34) _____
|
| _DECFLOAT_
| _____ |
_____ |

```

```

|          I_(16)_I
|
|          _(53)_____
|
|___FLOAT___I_____I_____
|_____I
|I          I_(integer_)_I
|
|I_I_REAL_____I
|
|I          _PRECISION_  I
|
|I_I_DOUBLE___I_____I___I
|
|          _____(1)_____
|
|_____CHARACTER___I_____I_____
|_____I
|I I I_I_CHAR_____I I_(length_)____I I I_CCSID__ASCII___I
|I_FOR__SBCS___DATA_I I I
|I I I___CHARACTER__VARYING__(length_)__I I_EBCDIC__I I_MIXED_I
|I I
|I I I_I_CHAR_____I I I_UNICODE_I
|I I
|I I_I_VARCHAR_____I
|I I
|I I          _____(1M)_____
|I I
|I I___CHARACTER__LARGE OBJECT_
|I_____I_____I I
|I I I_I_CHAR_____I I_(integer_)_I I_CCSID__ASCII___I
|I_FOR__SBCS___DATA_I I I
|I I_I_CLOB_____I I_EBCDIC__I
|I_MIXED_I I
|I          _____(1)_____ I_UNICODE_I
|
|I_GRAPHIC_I_____I_____
|_____I
|I I          I_(integer_)__I I I_CCSID__ASCII___I
|
|I I_I_VARGRAPHIC__(integer_)_____I I_EBCDIC__I
|
|I I          _____(1M)_____ I_UNICODE__I
|
|I I_DBCLob_I_____I
|
|I          I_(integer)_____I

```

```

|
|          _(1)_____
|
|_
|_BINARY_|_____|_____
|_____
| |          |_(integer)|_____
|
| |__BINARY VARYING |(integer)_____
|
| | |_VARBINARY_____
|
| |          |(1M)_____
|
| |_BINARY LARGE OBJECT_____|_____|_____
|
| |_BLOB_____ | |_(integer)_____|
|
|                                     |_K_|
|
|                                     |_M_|
|
|                                     |_G_|
|
|_DATE_____
|_____
| |_TIME_____
|
| |          |_(6)_____ |WITHOUT TIME ZONE_|
|
|_TIMESTAMP_|_____|_____|_____
|_____
|          |_(integer)| |_WITH TIME ZONE_____|
|
|_ROWID_____
|_____

```

CREATE VARIABLE

```

>>__CREATE VARIABLE_variable-name_| data-type |_____>
|_DEFAULT NULL_____
>_|_____ | built-in type |_____>
|_DEFAULT_constant_____ |_array-type-name_|
|_special register_|

```

built-in-type:

```
> __SMALLINT____>< | |__INTEGER__|
|
| | |__INT__| |
|
| |__BIGINT__|
|
|          ____ (5,0) ____
|
|__DECIMAL__|_____|
|
| |__DEC____| |__(__integer____)|
|
| |__NUMERIC__|          |__, integer_|
|
|          __ (34) __
|
|__DECFLOAT__
|_____|
|_____|
|
|          |__(16)|
|
|          __ (53) ____
|
|__FLOAT__|_____|
|
| |          |__(__integer__)|
|
| |__REAL_____|
|
| |          __PRECISION__ |
|
| |__DOUBLE__|_____|
|
|          __ (1) ____
|
|______CHARACTER_____|_____|
|
| | | |__CHAR_____| |__(length__)____| | |__CCSID__ASCII__|
|__FOR__SBCS__DATA_| | |
| | |__CHARACTER__VARYING__(length__)_| |__EBCDIC__| |__MIXED__|
| |
| | | |__CHAR_____| | |__UNICODE__|
| |
| | |__VARCHAR_____|
| |
```

```
| |                                     |(1M)_____
```

```
| | _____CHARACTER____LARGE OBJECT_
```

```
| | _____|_| | | | |
| | |_CHAR_____|_|(_integer_)_| | _CCSID__ASCII___|  
| _FOR__SBCS____DATA_| |  
| | ____CLOB_____|_|_EBCDIC_|  
| _MIXED_|  
| | _____(1)_____|_|_UNICODE_|  
|  
| ____GRAPHIC_| _____| _____
```

```
| | _____|_(integer)_____| | | _CCSID__ASCII___|  
|  
| | _VARGRAPHIC__(integer)_____|_|_EBCDIC_|  
|  
| | _____(1M)_____|_|_UNICODE_|  
|  
| | _DBCLOB_| _____|  
| | _____|(integer)_____|  
| | _____(1)_____  
|  
| _BINARY_| _____| _____
```

```
| | _____|(integer)_____| |  
|  
| | __BINARY VARYING __(integer)_____|  
|  
| | |_VARBINARY_____| |  
|  
| | _____(1M)_____| |  
|  
| | _BINARY LARGE OBJECT_____| _____| _____|  
|  
| | _BLOB_____| |_(integer)_____|  
|  
| | _____|_K_|  
| | _____|_M_|  
| | _____|_G_|  
|  
| _DATE_____
```

```

|_TIME_____|
|
|          __(_6_)_____  _WITHOUT TIME ZONE_
|
|_TIMESTAMP_|_____|_|_____|_____
|
|_(integer_)_|  |_WITH TIME ZONE____|

```

CREATE VIEW

```

>> __CREATE VIEW__ view-name_____>
|          |          |<_ , _____| |_(____column-name_|_)_|
> _____AS__fullselect_____>
|          |          |<_ , _____| |_WITH common-table-
expression_|_|
> _____>< |
|_CASCADED_|          | | | |
|          |_WITH_|_____|_|_CHECK OPTION_|
|          |_LOCAL_____|

```

DECLARE CURSOR

```

|_NO SCROLL_____|
>> __DECLARE__ cursor-name_|_____>
|          |_ASENSITIVE_____| | |
|_|_____|_|_SCROLL_|
|          |_INSENSITIVE_____|
|          |_DYNAMIC_____|
|_SENSITIVE_|_____|_|
|          |_STATIC_|
|          |< _____>|_CURSOR_____
_|_____>
|          |_holdability_____|
|          |_returnability_____|
|          |_rowset-positioning_|
> __FOR__ _select-statement_____><
|_statement-name_| holdability: _WITHOUT HOLD_
>>_|_____><
|_WITH HOLD_____| returnability: _WITHOUT RETURN_____
>>_|_____><
|_TO CALLER_| |_WITH RETURN_|_____|_|_TO CLIENT_| rowset-
positioning: _WITHOUT ROWSET POSITIONING_
>>_|_____><

```

I_WITH ROWSET POSITIONING____I

DECLARE GLOBAL TEMPORARY TABLE

```
>> __DECLARE GLOBAL TEMPORARY TABLE __table-name____>
    <_ , _____> _ ( _____column-
spec __I_) _____>
    I __LIKE__ table-name____I _____I
    I _____I_view-name__I _____I __copy-options_I
    I __as-result-table_____I
< _____>
_____I _____><
I __CCSID__ ASCII_____I I I __EBCDIC__I I I I __UNICODE__I
I I __DELETE ROWS__ I I __ON COMMIT__I __PRESERVE ROWS__I _____I I
I __DROP TABLE____I I I I I __LOGGED_____I
I I _____I I I I __ON ROLLBACK DELETE ROWS__ I
I __NOT LOGGED__I _____I __I I __ON ROLLBACK PRESERVE ROWS__I
column-spec: >> __column-name__ data-
type _____>
< _____>
_____I _____>< I __NOT
NULL _____I I I __WITH__ I
I I _____I __DEFAULT_____I I I I __CONSTANT_____I I I
I __SESSION_USER__I I I I I __USER_____I I I I I __CURRENT SQLID__I I I
I __NULL_____I I I I __GENERATED__ ALWAYS_____I I
I __BY DEFAULT__I I __as-identity-clause__I I I __NOT
NULL _____I data-type: >> __built-in
type _____>< I __distinct-
type-name__I
> __SMALLINT_____
_____>< I I __INTEGER__I I I I I __INT__I I I I I __BIGINT__I I I
_____(5,0)_____I
I __DECIMAL__I _____I _____I
_____I I I __DEC_____I I (__integer_____)_____I I
I I __NUMERIC__I I , integer_I I I __ (34)____I I I __DECFLOAT__
I _____I
____I I I __ (16)____I I I I __ (53)_____I
I __FLOAT__I _____I _____I
_____I I I I I (__integer__)I I I I I __REAL_____I I I I
__PRECISION__I I I I I __DOUBLE__I _____I __I I I I __ (1)_____I
I _____CHARACTER____I _____I _____I
_____I I I I I __CHAR_____I I (__length__)_____I I
I __FOR__ SBCS_____DATA_I I I I I I __CHARACTER__ VARYING__(__length__)__I I
I __MIXED__I I I I I I I __CHAR_____I I I I I __BIT____I I I I I
I __VARCHAR_____I I __CCSID 1208_____I I I I I __ (1)_____I
```


DECLARE STATEMENT

```
<_ , _____ >> __DECLARE__ statement-  
name_|__STATEMENT_____><
```

DECLARE TABLE

```
>>_DECLARE__table-name_____>  
      |_view-name_|  
      <_ , _____  
>_TABLE(column-name__built-in-data-type_____|_)_><  
|_distinct-type-name_|_NOT NULL_____| |_NOT NULL WITH DEFAULT_|  
built-in-type:  
>_SMALLINT_____>< | |_INTEGER_|  
|  
| |_INT_| |  
|  
| |_BIGINT_|  
|  
| _____(5,0)_____  
|  
|_DECIMAL_|_____|_____  
|_____|  
| |_DEC_| | |_(__integer_____)_|  
|  
| |_NUMERIC_| _____|_, integer_|  
|  
| _____(34)_____  
|  
|_DECFLOAT_|  
|_____|_____  
|_____|  
| _____|_(16)|_____  
|  
| _____(53)_____  
|  
|_FLOAT_|_____|_____  
|_____|  
| | _____|_(__integer__)_|  
|  
| |_REAL_|_____  
|  
| | ______PRECISION_|  
|  
| |_DOUBLE_|_____|_____|  
|
```

```

|          __ (1) __
|
|  __ CHARACTER __ |
|
|  | | | | CHAR __ | | (length) __ | | | CCSID __ ASCII __ |
|  | FOR __ SBCS __ DATA _ | |
|  | | | __ CHARACTER __ VARYING __ (length) __ | | EBCDIC __ | | MIXED _ |
|  | |
|  | | | | CHAR __ | | | | UNICODE _ |
|  | |
|  | | | __ VARCHAR __ |
|  |
|  | |
|  | |          __ (1M) __
|  | |
|  | | __ CHARACTER __ LARGE OBJECT _
|  | | | | | | | | | | |
|  | | | | CHAR __ | | | | (__integer__) _ | | CCSID __ ASCII __ |
|  | | FOR __ SBCS __ DATA _ | |
|  | | | __ CLOB __ | | EBCDIC __ |
|  | | MIXED _ |
|  | |          __ (1) __ | | UNICODE _ |
|  |
|  | __ GRAPHIC _ |
|  |
|  | | | | (__integer__) __ | | | CCSID __ ASCII __ |
|  |
|  | | __ VARGRAPHIC __ (__integer__) __ | | EBCDIC __ |
|  |
|  | |          __ (1M) __ | | UNICODE __ |
|  |
|  | | __ DBCLOB _ |
|  |
|  | | | | (__integer) __ |
|  |
|  | |          __ (1) __
|  |
|  |
|  | __ BINARY __ |
|  |
|  | | | | (__integer) __ |
|  |
|  | | __ BINARY VARYING __ (integer) __ |
|  |
|  | | | __ VARBINARY __ |
|  |
|  | |
|  | |          __ (1M) __ |
|  |

```

```

| I_BINARY LARGE OBJECT_____I_____I_____I
|
| I_BLOB_____I I_(integer_____)____I
|
|                                     I_K_I
|
|                                     I_M_I
|
|                                     I_G_I
|
|__DATE_____
|_____I
| I_TIME_____I
|
| I          __(_6_)_____ _WITHOUT TIME ZONE_
|
|
|_TIMESTAMP_I_____I____I_____I_____I_____I
|_____I
|          I_(integer_)_I I_WITH TIME ZONE____I
|
|_ROWID_____
|_____I

```

DECLARE VARIABLE

```
>>_DECLARE__host-variable|_VARIABLE_|_____><  
||_CCSID ASCII____| |_FOR SCBS DATA____||  
|_|_CCSID UNICODE_| |_FOR MIXED DATA_| |  
|_|_|_FOR BIT DATA____||  
| CCSID integer |
```

DELETE

searched delete:

```
>>__DELETE FROM__table-name____>
        |_view-name_| |_period-clause_| |_correlation-clause_|
>_____|_include-column_| |_SET assignment-clause_|>
>_____|_WHERE__search-condition_| |_isolation-clause_|>
        |_SKIP LOCKED DATA_|>
>_____|_QUERYNO integer| positioned delete: >> DELETE FROM table-
```

```

name____WHERE CURRENT OF__cursor-name____>< |_view-name_|
> _____><
|_FOR ROW__host-variable_____OF ROWSET_| |_integer-constant_| period-
clause: >>__FOR PORTION OF BUSINESS_TIME_FROM_value1 TO
value2_____>< |_BETWEEN value1 AND value2_| include-column:
>>__INCLUDE__(__column-name__data-type_____)_____><
data-type: >>__built-in
type_____><
|_distinct_type_name_| built-in-type:
>__SMALLINT_____
_____>< | |_INTEGER_|
|
| | |INT_| |
|
| |_BIGINT_|
|
| _____(5,0)_____
|
|__DECIMAL_| _____| _____
|_____|
| |_DEC_| | |_(__integer_____)_|
|
| |_NUMERIC_| _____|_, integer_|
|
| _____(34)_____
|
|_DECFLOAT_|
| _____|
|_____|
| | _____(16)_|
|
| _____(53)_____
|
|__FLOAT_| _____| _____
|_____|
| | _____(____integer_____)_|
|
| |_REAL_| _____|
|
| | _____PRECISION_|
|
| |_DOUBLE_| _____| _____|
|
| _____(1)_____
|
| _____CHARACTER_| _____| _____
|_____|

```

```

| | | | _CHAR_____ | |_(integer_____| |
|_FOR__BIT____DATA_| |
| | | ____CHARACTER__VARYING__(__integer____)|
|
| | | | _CHAR_____ | |
|
| | | | _VARCHAR_____ |
|
| | | | _____(1)_____
|
| ____GRAPHIC_| _____ | _____
| _____ |
| | | | _____|_(____integer____)| _____ |
|
| | | _VARGRAPHIC__(____integer____)_____ |
|
| | | | _____(1)_____
|
|
| _
|_BINARY__| _____ | _____
| _____ |
| | | | _____|_(integer_____| _____ |
|
| | | | _BINARY VARYING __ (integer)_____ |
|
| | | | _VARBINARY_____ | _____ |
|
|
| _DATE_____
| _____ |
|
| _TIME_____ |
| | _____( _6_)_____ _WITHOUT TIME ZONE_ | | | |
| _TIMESTAMP_| _____ | _____ | _____ |
| | _____|_(integer_____| | _WITH TIME ZONE_____ |

```

assignment-clause:

```

      <_, _____>> _____column-
name__expression_____ | _____>< |
|_NULL_____ | _____ |
|
| | <_, _____<_, _____ | |_(column-
name__|_)_( _____expression_____| _____)_____| | |_NULL_____ | | |_row-
fullselect_____ | isolation-clause:
>> _WITH__RR_____>
< |_RS_|
|
| _CS_|

```

DESCRIBE CURSOR

```
>> __DESCRIBE CURSOR__ cursor-name__ INTO __descriptor-  
name__>< |_host-variable_|
```

DESCRIBE INPUT

```
>> __DESCRIBE INPUT__ statement-name__ INTO __descriptor-  
name__><
```

DESCRIBE OUTPUT

```
__OUTPUT__  
>> __DESCRIBE_|_| statement-name__ INTO __descriptor-name__>  
>_____|_____|>  
< |__NAMES__|  
|_USING_|_LABELS_|_|  
|_ANY_|  
|_BOTH_|
```

DESCRIBE PROCEDURE

```
>> __DESCRIBE PROCEDURE__ procedure-name__ INTO __descriptor-  
name__>< |_host-variable_|
```

DESCRIBE TABLE

```
>> __DESCRIBE TABLE__ host-variable__ INTO __descriptor-name__>  
>_____|_____|>  
< |__NAMES__|  
|_USING_|_LABELS_|_|  
|_ANY_|  
|_BOTH_|
```

DROP

```
>> __DROP__ __FOR TABLE__  
|_|_PUBLIC_|_|_FOR SEQUENCE_|_|><  
|_DATABASE__ database-name_|  
|_TYPE__ distinct-type-name__ RESTRICT_|
```

```

|__FUNCTION__function-name_____|RESTRIC_____I
| | _____<_,_____| | | | | | | | |
|_(_____)|_)_|| | | |parameter-type_| | | |
|_SPECIFIC FUNCTION specific-name_____|RESTRIC_____||
|_INDEX_index-name_____|
|_MASK_mask-name_____|
|_PACKAGE_collection-id.package-id_____| | | |
|_VERSION_| | | |_____||version-id_| | | |_PERMISSION_permission-
name_____| | |_PROCEDURE_procedure-
name___RESTRIC_____|| |_ROLE_role-
name___RESTRIC_____|
|_SEQUENCE_sequence-name_____|
|_STOGROUP_stogroup-name_____|
|_SYNONYM_synonym_____|
|_TABLE_table-name_____|
|_TABLESPACE_____table-space-name_____| | |
|_database-name._| | |_TRIGGER_trigger-
name_____| | |_TRUSTED CONTEXT_context-
name_____| | |_TYPE_type-
name___RESTRIC_____|| |_VIEW_view-
name_____| parameter-type:
>>___data-type_____|><
|_AS LOCATOR___| data-type: >>___built-in-data-
type_____>< |_distinct-type-
name_| |_array-type-name___| built-in-data-type:
> _SMALLINT_____
_____>< | |_INTEGER_|
|
| | INT_| |
|
| | BIGINT_|
|
| _____(5,0)_____
|
|_DECIMAL_____|_____|_____
|_____
| | DEC_____| |_(integer_____)_____|
|
| | NUMERIC_| | , integer_|
|
| _____(34)_
|
|_DECFLOAT_
|_____|_____
|_____
|
| |(16)_|
|

```

```

|          _(53)_____
|
|__FLOAT__|_____|_____
|_____|
| |          |__(integer__)_|
|
| |__REAL_____|
|
| |          _PRECISION_ |
|
| |__DOUBLE__|_____|__|
|
|          |(1)_____
|
|_____CHARACTER_____|_____|_____
|_____|
| | | |__CHAR_____| |__(integer__)_____| | |__CCSID__ASCII__|
|__FOR__SBCS__DATA_| | |
| | |__CHARACTER__VARYING__(integer__)__| |__EBCDIC__|
|__MIXED_| | |
| | | |__CHAR_____| | | |__UNICODE_|
| | |
| | |__VARCHAR_____|
| | |
| | |          |(1M)_____
| | |
| | |__CHARACTER__LARGE OBJECT_
|_____|_____| | | | | | | | |
| | | |__CHAR_____| | | |__(integer__)_| |__CCSID__ASCII__|
|__FOR__SBCS__DATA_| | |
| | |__CLOB_____| | | |__EBCDIC__|
|__MIXED_| | |
| | |          |(1)_____ |__UNICODE_|
|
|__GRAPHIC_|_____|_____
|_____|
| | |          |__(integer__)__| | | |__CCSID__ASCII__|
|
| | |__VARGRAPHIC__(integer__)_____| | | |__EBCDIC__|
|
| | |          |(1M)_____ |__UNICODE__|
|
| | |__DBCLOB_|_____|
|
| | |          |(integer)_____|
|
| | |          |(1)_____

```


EXCHANGE

```
>>__EXECUTE DATA BETWEEN TABLE table-name1_AND_table-name2_____><
```

EXECUTE

```
>>__EXECUTE__statement-name_____>
>_____><
|      <_,_____|
|      |_USING__variable_____|_____|
|      |_____|_array-variable_|
|      |_USING__DESCRIPTOR__descriptor-name____| |
|      |_source-row-data_____|
```

source-row-data:

```
_____<_,_____>>__ _USING__ _host-variable-array_
|_____>
|      |_____|_host-variable_____| |
|      |_USING DESCRIPTOR__descriptor-name_|
>_____><
|_FOR_ _host-variable____ _ROWS_|
|_____|_integer-constant_|
```

EXECUTE IMMEDIATE

```
>>__EXECUTE IMMEDIATE__string-expression_____><
|_host-variable_____|
```

EXPLAIN

```
>>__EXPLAIN_____>
>__ _PLAN__ _____ _FOR_sql-statement_ _____><
| |_ALL_| |_SET QUERYNO=integer_| |
|_STMTCACHE__ALL_____| | |_STMTID__ _id-
host-variable_ _____| | | | |_integer-constant_| | | | |_STMTTOKEN__
_token-host-variable_ _| | | |_string-constant_____| | |_PACKAGE__package-
specification_____| Package-specification: >>__COLLECTION-
collection-name_____>
>__PACKAGE-package-name_____><
|_VERSION_version-name| |_COPY_copy-id_|
```

FETCH

```

                                                    _FROM_
>> __FETCH__ fetch-orientation__ |__>
    |__INSENSITIVE__| |__WITH CONTINUE__|
    |__SENSITIVE__|
> __cursor-name__
    >< |__single-row-fetch__| |__multiple-row-fetch__|
    fetch-orientation: > __BEFORE__
    >
    |__AFTER__|
    |__row-positioned__|
    |__rowset-positioned__|

row-positioned:
    __NEXT__
|__|>
|__PRIOR__|
|__FIRST__|
|__LAST__|
|__CURRENT__|
|__ABSOLUTE__ __host-variable__|
|__|__integer-constant__|
|__RELATIVE__ __host-variable__|
|__integer-constant__|

rowset-positioned:
    __NEXT ROWSET__
    >
    |__PRIOR ROWSET__|
    |__FIRST ROWSET__|
    |__LAST ROWSET__|
    |__CURRENT ROWSET__|
    |__ROWSET STARTING AT__ __ABSOLUTE__ __host-variable__|
    |__RELATIVE__| |__integer-constant__|

single-row-fetch:
|__<__,__| |__INTO__target-variable|__|__array-variable__|
|__INTO DESCRIPTOR descriptor-name__| target-variable:
> __global-variable-name__>
    |__host-variable-name__|
    |__SQL-parameter-name__|
    |__SQL-variable-name__|
    |__transition-variable-name__|
```

multiple-row-fetch:

```

    | _____
    |_____>
    |_FOR_ _host-variable_ _ROWS_ |
    |_integer-constant_ |
    > _____
    |_____>
    | </_><_ , _____ |
    |_INTO_ _host-variable-array| _____ |
    |_INTO DESCRIPTOR descriptor-name_ |

```

FREE LOCATOR

```

    <_ , _____ >> _FREE
LOCATOR_ _host_variable_ | _____><

```

GET DIAGNOSTICS

```

>> _GET DIAGNOSTICS_ _statement-information_ _
_____>< |_condition-information_ |
    |_combined-information_ |

```

statement-information:

```

    <_ , _____ >_ _host-
variable1_ =_ | statement-information-item-name |_ | _____>
    |_host-variable1_ =_ DB2_GET_DIAGNOSTICS_DIAGNOSTICS _____ |
    |_host-variable1_ =_ DB2_SQL_NESTING_LEVEL _____ |

```

statement-information-item-name:

```

    <_ , _____ > _____
_ DB2_ LAST_ROW _____ | _____>
    |_DB2_NUMBER_PARAMETER_MARKERS _____ |
    |_DB2_NUMBER_RESULT_SETS _____ |
    |_DB2_RETURN_STATUS _____ |
    |_DB2_SQL_ATTR_CURSOR_HOLD _____ |
    |_DB2_SQL_ATTR_CURSOR_ROWSET _____ |
    |_DB2_SQL_ATTR_CURSOR_SCROLLABLE _____ |
    |_DB2_SQL_ATTR_CURSOR_SENSITIVITY _____ |
    |_DB2_SQL_ATTR_CURSOR_TYPE _____ |
    |_MORE _____ |
    |_NUMBER _____ |
    |_ROW_COUNT _____ |

```

condition-information:

```

> _CONDITION_ _host-variable2_ _____>
    |_integer _____ |
    </_><_ , _____

```

```

>__host-variable3__ =__ __condition-information-item-name __ _I_____>
                        I____connection-information-item-name____I

condition-information-item-name:
> __ _CATALOG_NAME_____>
    I _CONDITION_NUMBER_____I
    I _CURSOR_NAME_____I
    I _DB2_ERROR_CODE1_____I
    I _DB2_ERROR_CODE2_____I
    I _DB2_ERROR_CODE3_____I
    I _DB2_ERROR_CODE4_____I
    I _DB2_INTERNAL_ERROR_POINTER_I
    I _DB2_LINE_NUMBER_____I
    I _DB2_MESSAGE_ID_____I
    I _DB2_MODULE_DETECTING_ERROR_I
    I _DB2_ORDINAL_TOKEN_n_____I
    I _DB2_REASON_CODE_____I
    I _DB2_RETURNED_SQLCODE_____I
    I _DB2_ROW_NUMBER_____I
    I _DB2_SQLERRD_SET_____I
    I _DB2_SQLERRD1_____I
    I _DB2_SQLERRD2_____I
    I _DB2_SQLERRD3_____I
    I _DB2_SQLERRD4_____I
    I _DB2_SQLERRD5_____I
    I _DB2_SQLERRD6_____I
    I _DB2_TOKEN_COUNT_____I
    I _MESSAGE_TEXT_____I
    I _RETURNED_SQLSTATE_____I
    I _SERVER_NAME_____I

connection-information-item-name:
> __ _DB2_AUTHENTICATION_TYPE_____>
    I _DB2_AUTHORIZATION_ID_____I
    I _DB2_CONNECTION_STATE_____I
    I _DB2_CONNECTION_STATUS_____I
    I _DB2_ENCRYPTION_TYPE_____I
    I _DB2_SERVER_CLASS_NAME_____I
    I _DB2_PRODUCT_ID_____I

combined-information:
                                </_><_ , _____
>__host-variable4__ =__ ALL__
__STATEMENT_____I_____>< I _ _CONDITION__ __
_____I
                                I _CONNECTION_I I _host-variable5_I
                                I _integer_____I

```

GRANT

```
>> __GRANT__ authorization-specification_____>
      <_ , _____> __TO__ authorization-
name_____I_____><
I_PUBLIC_____I      I_WITH GRANT OPTION_I
      I_ROLE_role-name_____I
```

GRANT (collection privileges)

```
>> __GRANT__ CREATE_____ON__ COLLECTION_____collection-id_I_____>
      I_PACKADM_I      I_IN_I      I_*_____I
      </_><_ , _____> __TO__ authorization-
name__I_____>< I_PUBLIC_____I
I_WITH GRANT OPTION_I
      I_ROLE_role-name_____I
```

GRANT (database privileges)

```
>> __GRANT_____DBADM_____I__ON DATABASE_____database-name_I_____>
      I_DBCTRL_____I
      I_DBMAINT_____I
      I_CREATETAB_____I
      I_CREATETS_____I
      I_DISPLAYDB_____I
      I_DROP_____I
      I_IMAGCOPY_____I
      I_LOAD_____I
      I_RECOVERDB_____I
      I_REORG_____I
      I_REPAIR_____I
      I_STARTDB_____I
      I_STATS_____I
      I_STOPDB_____I
      </_><_ , _____> __TO__ authorization-
name__I_____>< I_PUBLIC_____I
I_WITH GRANT OPTION_I
      I_ROLE_role-name_____I
```

GRANT (function or procedure privileges)

```
>> __GRANT__ EXECUTE__ ON_____>
      <_ , _____
> ____FUNCTION_____function-name_____|_____>
| |
| |
| | _____|_(_____)_| | |
| | _____|_parameter-type_| | |
| | _____|_*_____ | |
| | _____<_ , _____ |
| | _SPECIFIC FUNCTION____specific-name_| |
| | _____<_ , _____ |
| | _PROCEDURE_____procedure-name_| |
| | _____|_*_____ |
| | _____<_ , _____>__TO_____authorization-
name____|_____>< | _PUBLIC_____ |
| | _WITH GRANT OPTION_| | _ROLE_role-name____| parameter-type: >>____data-
type_____>< | _AS
LOCATOR____| data-type: >>____built-in-data-
type_____>< | _distinct-type-
name_| | _array-type-name____| built-in-data-type:
> __SMALLINT_____
_____>< | | _INTEGER_|
|
| | | INT__| |
|
| | _BIGINT____|
|
| _____(5,0)_____
|
| _DECIMAL____| _____|
|
| | _DEC____| |_(__integer_____)____|
|
| | _NUMERIC_| _____|_, integer_|
|
| _____(34)_____
|
| _DECFLOAT_
| _____|
|
| _____|_(16)____|
|
| _____(53)_____
|
| _FLOAT____| _____|
```

[illegible]


```

id____|____>
|_*|
</_><_ , _____>__TO____authorization-
name____|____>< I_PUBLIC____|
I_WITHGRANT OPTION_I
I_ROLE_role-name____|

```

GRANT (plan privileges)

```

<_ , _____<_ , _____
>>__GRANT____BIND____|__ON PLAN____plan-
name_|____>
I_EXECUTE_|

```

```

</_><_ , _____>__TO____authorization-
name____|____>< I_PUBLIC____|
I_WITH GRANT OPTION_I
I_ROLE_role-name____|

```

GRANT (schema privileges)

```

<_ , _____<_ , _____
>>__GRANT____ALTERIN____|__ON__SCHEMA____schema-name_|____>
I_CREATEIN_|
I_DROPIN____|
</_><_ , _____>__TO____authorization-
name____|____>< I_PUBLIC____|
I_WITH GRANT OPTION_I
I_ROLE_role-name____|

```

GRANT (sequence privileges)

```

<_ , _____<_ , _____
>>__GRANT____ALTER____|__ON_SEQUENCE____sequence-name_|____>
I_USAGE____|I_*____|
</_><_ , _____>__TO____authorization-
name____|____>< I_PUBLIC____|
I_WITH GRANT OPTION_I
I_ROLE_role-name____|

```

GRANT (system privileges)

```
>> __GRANT__ ACCESSCTRL |_____|>
|_ARCHIVE_|
|_BINDADD_|
|_BINDAGENT_|
|_BSDS_|
|_CREATEALIAS_|
|_CREATEDBA_|
|_CREATEDBC_|
|_CREATESG_|
|_CREATETMTAB_|
|_CREATE_SECURE_OBJECT_|
|_DATAACCESS_|
|_WITH ACCESSCTRL_|_WITH DATAACCESS_| |
|_DBADM_|_|_|
|_WITHOUT ACCESSCTRL_|_WITHOUT DATAACCESS_|
|_DEBUGSESSION_|
|_DISPLAY_|
|_EXPLAIN_|
|_MONITOR1_|
|_MONITOR2_|
|_RECOVER_|
|_SQLADM_|
|_STOPALL_|
|_STOSPACE_|
|_SYSADM_|
|_SYSCTRL_|
|_SYSOPR_|
|_TRACE_|
>_|_____|>
|_ON SYSTEM_|
|_<_,_____|>_TO_____|authorization-
name_____|_____|><|_PUBLIC_____|
|_WITH GRANT OPTION_|
|_ROLE_role-name_____|
```

GRANT (table or view privileges)

```
_____|_PRIVILEGES_
>> __GRANT__ ALL__|_____|
>
|_<_,_____|
|_ALTER_|_|
|_DELETE_|
```

```

|_INDEX_____|
|_INSERT_____|
|_SELECT_____|
|_REFERENCES_____|
|          |<_ , _____|
|          |_(___column-name_|_)_|
|_TRIGGER_____|
|_UPDATE_____|
|          |<_ , _____|
|          |_(___column-name_|_)_|

|_TABLE_<_ , _____>_ON_|_____|_____table-
name_|_____>
|_view-name_|
</_><_ , _____>_TO_____authorization-
name_|_____><
|_PUBLIC_____|_|_WITH GRANT OPTION_|
|_ROLE_role-name_|

```

GRANT (type or JAR privileges)

```

|_____<_ , _____>>_GRANT_USAGE ON_TYPE_type-
name_|_____>
|_____</_><_ , _____|
|_JAR_____jar-name_|_____|
|_____<_ , _____>_TO_____authorization-
name_|_____>< |_PUBLIC_____|
|_ROLE_role-name_|

```

GRANT (variable privileges)

```

|_PRIVILEGES_
>>_GRANT_____ALL_|_____|_ON_VARIABLE_variable-name_____>
|_____<_ , _____|
|_____READ_|_____|
|_WRITE_|
|_____<_ , _____>_TO_____authorization-
name_|_____>< |_PUBLIC_____|
|_WITH GRANT OPTION_|
|_ROLE_role-name_|

```

GRANT (use privileges)

```
>> __GRANT USE OF _____>
      <_ , _____
> ____BUFFERPOOL____bpname| _____>
  |_ALL BUFFERPOOLS _____
  | _____</_><_ , _____|
  |_STOGROUP____stogroup-name._| _____|
  | _____<_ , _____|
  |_TABLESPACE_____table-space-name_|_|
      |_database-name._|
      <_ , _____> __TO____authorization-
name____| _____>< |_PUBLIC_____|
|_WITH GRANT OPTION_|
      |_ROLE_role-name____|
```

HOLD LOCATOR

```
      <_ , _____>> __HOLD
LOCATOR____host_variable_| _____><
```

INCLUDE

```
>> __INCLUDE____SQLCA_____><
|_SQLDA_____|
      |_member-name_|
```

INSERT

```
>> __INSERT INTO____table-name_____>
      |_view-name_| | <_ , _____| |_(____column-
name_|____)_|
> _____>
      |_include-column_| |_OVERRIDING USER VALUE_|

> ____VALUES____expression_____><
| _____| |_DEFAULT_____| | _____| |
| _____| |_NULL_____| | _____|
| _____| <_ , _____| | _____|
| _____| |_(____expression_|_)_| | _____|
| _____| |_DEFAULT_____| | _____|
| _____| |_NULL_____| | _____|
| _____| <_ , _____| | _____|
|_WITH common-table-expression_| _____|
|_fullselect_____|
```

```

I          I_WITH____RR____I  I_QUERYNO__integer__I I
I          I_RS_I
I          I_CS_I
I_multi-row-insert_____I

```

include-column:

```

____<_,_____>>__INCLUDE__(__column-name__data-
type__I_)_____>< data-type: >>__built-in
type_____><
I_distinct_type_name_I built-in-type:
>__SMALLINT_____
_____>< I I_INTEGER__I I I I INT__I I I I I_BIGINT__I I I
_____(5,0)_____I
I_DECIMAL__I_____I_____
_____I I_DEC____I I_(__integer_____)____I I
I_NUMERIC_I I_, integer_I I I_(34)_ I I_DECFLOAT_
I_____I_____
____I I I_(16)_I I I_(53)_____I
I_FLOAT__I_____I_____
_____I I I I_(__integer__)_I I I I_REAL_____I I I I
PRECISION_I I I I_DOUBLE__I_____I I I I_(1)_____I
I_____CHARACTER__I_____I_____
_____I I I I I_CHAR_____I I_(integer__)____I I
I_FOR__BIT____DATA_I I I I I_CHARACTER__VARYING__(integer__)_I I I I I
I_CHAR_____I I I I I I_VARCHAR_____I I I I_(1)_____I
I_GRAPHIC_I_____I_____
_____I I I I I_(__integer__)____I I I I I
I_VARGRAPHIC__(__integer__)_____I I I I_(1)_____I I
_BINARY__I_____I_____
_____I I I I I_(integer)____I I I I I_BINARY VARYING
_(integer)_____I I I I I_VARBINARY____I I I
I_DATE_____I_____
_____I I TIME_____I I
_____(6)_____WITHOUT TIME ZONE_I
I_TIMESTAMP_I_____I_____I I I_(integer__)_I I WITH
TIME ZONE____I multi-row-insert: >>__VALUES__ _ _expression_____
_____>
_____I I_host-variable-array_I_____I
_____I I_NULL_____I_____I
_____I I_DEFAULT_____I_____I
_____I I </_><_,_____I I I_(__expression_____
I_)_I I_host-variable-array_I I_NULL_____I I_DEFAULT_____I
>____>
_____I_____I_____
I_FOR__host-variable____ROWS____I
_____I_integer-constant_I_____
____ATOMIC_____

```



```

> _____><
| _AS_ |
| | _correlation-name_ |
| | <_, _____ | | (_column-
name_) _____ | | data-type: >>__built-in
type_____><
|_distinct_type_name_| built-in-type:
> _SMALLINT_____
_____>< | | _INTEGER_|
|
| | | INT_| |
|
| | _BIGINT_|
|
| _____(5,0)_____
|
| _DECIMAL_| _____|
|_____|
| | _DEC_| | | (_integer_____) _____|
|
| | _NUMERIC_| _____ |_, integer_|
|
| _____(34)_____
|
| _DECFLOAT_|
| _____|
|_____|
| _____|_(16)_|
|
| _____(53)_____
|
| _FLOAT_| _____|
|_____|
| | _____|_(integer_)_|
|
| | _REAL_| _____|
|
| | _____PRECISION_|
|
| | _DOUBLE_| _____|
|
| _____(1)_____
|
| _____CHARACTER_| _____|
|_____|
| | | | _CHAR_| |_(integer_)_____| |
|_FOR_|_BIT_|_DATA_| |

```


assignment-clause:

```
>> __INSERT__VALUES__expression__>
< | < , | | | _DEFAULT__ |
    | (_column-name_|_) | | | _NULL__ |
    | | < , |
| (__expression__ |_) | | _DEFAULT__ | | _NULL__ | delete-
operation:
>> __DELETE__>
<
```

```
>>__OPEN__cursor-
name_____>< |
<_, _____|
|_USING_____variable_|_____|
|          |_array-variable_|_|
| USING DESCRIPTOR      descriptor-name |
```

```

>> __PREPARE__statement-name_____>
>_____>
    |_INTO__descriptor-name_____|
                                |
                                |_NAMES__|
                                |_USING__|_LABELS_|_|
                                |_ANY____|
                                |_BOTH____|
>__FROM____string-
expression_____><
|_____FROM_host-variable_____|
    | ATTRIBUTES attr-host-variable |

```

attribute-string:

```
<
>> _____ I _____>
< I I __INSENSITIVE_____ I I I __SENSITIVE__STATIC_____ I I I I __DYNAMIC_ I I
I I __NO SCROLL_ I I I __SCROLL_____ I
I __holdability_____ I
I __returnability_____ I I __rowset-
positioning_____ I I __fetch-first-
clause_____ I I __read-only-clause_____ I I
I __update-clause__ I I I __optimize-clause_____ I
I __isolation-clause_____ I I I __FOR MULTIPLE
ROWS_____ I I I __FOR SINGLE ROW_____ I I I I __ATOMIC_ I
I I _____ I I I __NOT ATOMIC CONTINUE ON
SQLEXCEPTION I I I __SKIP LOCKED DATA_____ I I I I __USE
CURRENTLY COMMITTED I I I I __WAIT FOR OUTCOME_____ I I I I __WITHOUT EXTENDED
INDICATORS_____ I I I I __WITH EXTENDED INDICATORS__ I I I I __CONCENTRATE
STATEMENTS OFF_____ I I I __CONCENTRATE STATEMENTS WITH LITERALS_ I I
holdability:
>> _____>
I __WITHOUT HOLD_ I
I __WITH HOLD_____ I
```

returnability:

```
>> __ WITHOUT RETURN
_____>< I __TO CALLER_ I
I __WITH RETURN_ I _____ I I I __TO CLIENT_ I rowset-positioning:
>> _____>
< I __WITHOUT ROWSET POSITIONING_ I I __WITH ROWSET POSITIONING_____ I concurrent-
access-resolution: >> __SKIP LOCKED
DATA _____>< I __USE CURRENTLY
COMMITTED__ I
I __WAIT FOR OUTCOME_____ I
```

REFRESH TABLE

```
>> __REFRESH_TABLE table-
name _____>< I __QUERYNO integer_ I
```

RELEASE

```
>> __RELEASE_____location-
name _____>< I __host-variable_ I
I __CURRENT_____ I
I _____SQL_____ I
I __ALL_ I _____ I _____ I
```

RELEASE SAVEPOINT

```
>>__RELEASE__|__TO__|__SAVEPOINT__svpt-  
name____><
```

RELEASE (connection)

```
>> __RELEASE__ _location-name_
_____>< I_host-variable_I
      I_CURRENT_____I
      I      _SQL_      I
      I_ALL_I_____I
```

RENAME

```
>> __RENAME__|_____|__source-table-name__T0__new-table-identifier_____|<<
|__INDEX__source-table-name__T0__new-index-identifier_____|
```

REVOKE

```
>>__REVOKE__authorization-specification____>
      <_ , _____>__FROM____authorization-
name_____|_____>
      |_PUBLIC_____|
      |_ROLE-role-name_____|
>_____><
|<_ , _____| |_BY____authorization-name_|____|
|_ALL_____|>____INCLUDING DEPENDENT
PRIVILEGES_____>< |_NOT INCLUDING
DEPENDENT PRIVILEGES | _____| RESPECT _____|
```

REVOKE (collection privileges)

```

>> __REVOKE__ __CREATE__ __IN__ __COLLECTION__ <_ , _____
id_ | _____>
      | _PACKADM_| | _ON_| | _*_____ |
      </_><_ , _____> __FROM__ authorization-
name _____>
      | _PUBLIC_____ |
      | _ROLE-role-name |

```



```

|
|_SPECIFIC FUNCTION___specific-name_|
|
|_PROCEDURE___procedure-name_|
|_*_|
|_<_,_____>___FROM___authorization-
name___|_____RESTRICT___>
|_PUBLIC_|_|</_><_,_____||_ROLE-
role-name___||_BY___authorization-name_|_|_ROLE-role-name___|
|_ALL_|>___INCLUDING DEPENDENT
PRIVILEGES___><|_NOT INCLUDING
DEPENDENT PRIVILEGES_| parameter-type: >>___data-
type___><|_AS
LOCATOR___| data-type: >>___built-in-data-
type___><|_distinct-type-
name_|_|_array-type-name___| built-in-data-type:
>___SMALLINT_____
_____><|_|_INTEGER_|
|
|_|_INT_|_|
|
|_|_BIGINT_|
|
|_____(5,0)_____
|
|_DECIMAL_|_|
|_|_DEC_|_|_(_integer_____)_|
|
|_|_NUMERIC_|_|, integer_|
|
|_____(34)____
|
|_DECFLOAT_|
|_|
|_|
|_|_(16)_|
|
|_____(53)_____
|
|_FLOAT_|_|
|_|
|_|_(_integer_)_|
|
|_|_REAL_|
|
|_|_PRECISION_|

```

```

|
|_I_DOUBLE_|_____|_|
|
|_____(1)_____
|
|____CHARACTER_____|_____|_____
|_____
|_|_|_|_CHAR_____|_|_(integer)_____|_|_|_CCSID_ASCII_|
|_FOR_SBCS_DATA_|_|
|_|_|_CHARACTER_VARYING_(integer)_____|_|_EBCDIC_|
|_MIXED_|_|
|_|_|_CHAR_____|_|_|_UNICODE_|
|_|
|_|_|_VARCHAR_____|
|_|
|_|_____(1M)_____
|_|
|_|_CHARACTER_LARGE OBJECT_|
|_____
|_|_|_|_CHAR_____|_|_|_(integer)_____|_|_|_CCSID_ASCII_|
|_FOR_SBCS_DATA_|_|
|_|_|_CLOB_____|_|_|_EBCDIC_|
|_MIXED_|_|
|_|_____(1)_____
|_|_|_UNICODE_|
|
|_GRAPHIC_|_____|_____
|_____
|_|_|_|_(integer)_____|_|_|_CCSID_ASCII_|
|
|_|_VARGRAPHIC_(integer)_____|_|_|_EBCDIC_|
|
|_|_____(1M)_____
|_|_|_UNICODE_|
|
|_|_DBCLOB_|_____|
|
|_|_|_(integer)_____|
|
|_|_____(1)_____
|
|_BINARY_|_____|_____
|_____
|_|_|_|_(integer)_____|_|
|
|_|_BINARY VARYING_(integer)_____|
|
|_|_|_VARBINARY_____|

```



```

> _____>
| _____ | | BY _____ authorization-name_|_|
|_ALL_____ | | ROLE-role-name_____ | >___INCLUDING DEPENDENT
PRIVILEGES_____>< |_NOT INCLUDING DEPENDENT
PRIVILEGES_|

```

REVOKE (plan privileges)

```

>>__REVOKE_____<_ , _____<_ , _____
|_EXECUTE_|_____>
name_____|_____>
|_PUBLIC_____|
|_ROLE-role-name_____|
>
| _____ | | BY _____ authorization-name_|_|
|_ALL_____ | | ROLE-role-name_____ | >___INCLUDING
DEPENDENT PRIVILEGES_____>
|_NOT INCLUDING DEPENDENT PRIVILEGES_|

```

</_>

REVOKE (schema privileges)

```

>>__REVOKE_____<_ , _____<_ , _____
|_CREATEIN_|_____ |_*_____ |
|_DROPIN_|_____ |
name_____|_____>
|_PUBLIC_____|
|_ROLE-role-name_____|
>
| _____ | | BY _____ authorization-name_|_|
|_ALL_____ | | ROLE-role-name_____ | >___INCLUDING DEPENDENT
PRIVILEGES_____>< |_NOT INCLUDING
DEPENDENT PRIVILEGES_|

```

REVOKE (sequence privileges)

```
<_ , _____>
>> __REVOKE__ ALTER__ I __ON__ SEQUENCE__ schema-name_ I _____>
      I_USAGE_____ I
      </_><_ , _____> __FROM__ authorization-
name__ I _____>
      I_PUBLIC_____ I
      I_ROLE-role-name_____ I
      I_RESTRICT__
> _____ I _____>
      I _____</_><_ , _____ I I_BY__ authorization-name_ I ____ I
I_ALL_____ I I_ROLE_role-name_____ I >__ INCLUDING DEPENDENT
PRIVILEGES_____>< I_NOT INCLUDING
DEPENDENT PRIVILEGES__ I
```

REVOKE (system privileges)

```
<_ , _____>
>> __REVOKE__ ACCESSCTRL_____ I _____FROM__ authorization-name_ I ____>
      I_ARCHIVE_____ I I_PUBLIC_____ I
      I_BINDADD_____ I I_ROLE_role-name_____ I
      I_BINDAGENT_____ I
      I_BSDS_____ I
      I_CREATEALIAS_____ I
      I_CREATEDBA_____ I
      I_CREATEDBC_____ I
      I_CREATSG_____ I
      I_CREATETMTAB_____ I
      I_CREATE_SECURE_OBJECT_ I
      I_DATAACCESS_____ I
      I_DBADAM_____ I
      I_DEBUGSESSION_____ I
      I_DISPLAY_____ I
      I_EXPLAIN_____ I
      I_MONITOR1_____ I
      I_MONITOR2_____ I
      I_RECOVER_____ I
      I_SQLADM_____ I
      I_STOPALL_____ I
      I_STOSPACE_____ I
      I_SYSADM_____ I
      I_SYSCTRL_____ I
      I_SYSOPR_____ I
      I_TRACE_____ I
> _____>
```

```

| </_><_ , _____ | |_BY_____authorization-name_|____|
|_ALL_____ | |_ROLE_role-name_____ | >_____INCLUDING
DEPENDENT PRIVILEGES_____>
|_NOT INCLUDING DEPENDENT PRIVILEGES_|

```

```
</_>
```

REVOKE (table or view privileges)

```

____PRIVILEGES_
>>__REVOKE__ALL__|_____|_____>
| <_ , _____ | |_____ALTER_____ |__| |_DELETE_____ |
|_INDEX_____ | |_INSERT_____ | |_REFERENCES_| |_SELECT_____ | |_TRIGGER_____ |
|_UPDATE_____ | _TABLE_ >_ON_|_____|_____table-
name_____|_____>
|_view-name_|
</_><_ , _____ >_FROM_____authorization-
name_____ |_____>
|_PUBLIC_____ |
|_ROLE_role-name_____ |
>
| </_><_ , _____ | |_BY_____authorization-name_|____|
|_ALL_____ | |_ROLE_role-name_____ | >_____INCLUDING
DEPENDENT PRIVILEGES_____>< |_NOT INCLUDING
DEPENDENT PRIVILEGES_|

```

REVOKE (type or JAR privileges)

```

____<_ , _____
>>__REVOKE__USAGE ON_____TYPE_____type-name_|_____>
| </_><_ , _____ |
|_JAR__jar-name_|_____ |
<_ , _____ >_FROM_____authorization-
name_____|_____>
|_PUBLIC_____ |
|_ROLE_role-name_____ |
>
_____RESTRICT_____>
| </_><_ , _____ | |_BY_____authorization-name_|____|
|_ALL_____ | >_____INCLUDING DEPENDENT
PRIVILEGES_____>< |_NOT INCLUDING DEPENDENT
PRIVILEGES_|

```

REVOKE (use privileges)

```
>> __REVOKE USE OF_____>
<_____>__BUFFERPOOL____bpname_|_____
_____|
|_ALL BUFFERPOOLS_____|
|_<_ , _____|
|_STOGROUP____stogroup-name_|_____|
|_<_ , _____|
|_TABLESPACE_____table-space-name_|_|
|_database-name_|
|_<_ , _____>__FROM____authorization-
name_____|_____>
|_PUBLIC_____|
|_ROLE_role-name_____|
>_____>
|_</_><_ , _____| |_BY____authorization-name_|____|
|_ALL_____| |_ROLE_role-name_____|>__INCLUDING DEPENDENT
PRIVILEGES_____>< |_NOT INCLUDING
DEPENDENT PRIVILEGES__|
```

REVOKE (variable privileges)

```
____PRIVILEGES_
>> _REVOKE____ALL_____|_____|_ON_VARIABLE__variable-name____>
|_<_ , _____|
|_READ_____|_____|
|_WRITE_|
|_<_ , _____>__FROM____authorization-
name_____|_____RESTRICT__< |_PUBLIC_____|
|_BY_____|
|_ROLE_role-play_____| |_<_ , _____|
|_authorization-name_|_|
|_ROLE_role-name_____|
|_ALL_____|
```

ROLLBACK

```
____WORK_
>> __ROLLBACK__|_____|_____>
< |_TO SAVEPOINT_____|
|_svpt-name_|
```

SAVEPOINT

```
>> __SAVEPOINT__svpt-name_____>
                                     |_UNIQUE_| _ON ROLLBACK RETAIN LOCKS_
> __ON ROLLBACK RETAIN
CURSORS_____|_____><
```

SELECT INTO

```
> _____>
    |_____|
    |_WITH __common-table-expression____|_|
                                     <_,_____> __select-clause__ INTO__ target-
variable_|_from-clause_____>
                                     |_where-clause_|
> _____>
    |_group-by-clause_| |_having-clause_| |_order-by-clause_|
    <_, _____
> _____|_____>
    |_SKIP_LOCKED_DATA_| |_QUERYNO__integer_|
    |_WITH____RR_____|
        |_RS_|
        |_CS_|
        |_UR_|
> _____>< |
_1_| |_FETCH FIRST_|_|_ROW__ __ONLY_| |_ROWS_| target-variable:
> __global-variable-name_____><
|_host-variable-name_____|
    |_SQL-parameter-name_____|
    |_SQL-variable-name_____|
    |_transition-variable-name_|
```

SET CONNECTION

```
>> __SET CONNECTION__location-name_____><
|_host-variable_____|
```

SET assignment statement

```
>> __SET __assignment-clause_____><
assignment-clause:
|_array-variable-name__(_array-index_)_-____expression_____|
|_____|_NULL_____|
|<_,_____|
|_target-variable_____expression_____|_|
|_____|_NULL_____|
```

```

|                                     |_DEFAULT_|
|   <_,_____>_<_,_____>_
|_(_ target-variable_|_)_-(_____expression_____)|_
|   |_NULL_|
|   |_DEFAULT_|
|_row subselect_____|
|_VALUES_____expression_____|
|   |_NULL_|
|   |_DEFAULT_|
|   <_,_____>_
|_(_expression_|_)_|_NULL_|_DEFAULT_| target-
variable: >__global-variable-
name_____>< |_host-variable-
name_|
|_SQL-parameter-name_|
|_SQL-variable-name_|
|_transition-variable-name_|

```

SET CURRENT APPLICATION COMPATIBILITY

```

>>__SET CURRENT_APPLICATION COMPATIBILITY_____|_=_|_string-constant____><
|_host-variable____|

```

SET CURRENT APPLICATION ENCODING SCHEME

```

>>__SET CURRENT_|_APPLICATION_____|_ENCODING SCHEME_____|_=_|_____|_>
>__string-constant_____><
|_host-variable____|

```

SET CURRENT DEBUG MODE

```

>>__SET CURRENT_DEBUG MODE_|_=_|_host-variable_____><
|_DISALLOW_____|
|_ALLOW_____|
|_DIABLE_____|

```

SET CURRENT DECFLOAT ROUNDING MODE

```
>>__SET CURRENT DECFLOAT ROUNDING MODE_ |__|__ ROUND CEILING____><
|_ROUND_DOWN_____|
|_ROUND_FLOOR_____|
|_ROUND_HALF_DOWN_____|
|_ROUND_HALF_EVEN_____|
|_ROUND_HALF_UP_____|
|_ROUND_UP_____|
|_string-constant_____|
|_host-variable_____|
```

SET CURRENT DEGREE

```
>>__SET CURRENT DEGREE =__string-constant____><
|_host-variable_____|
```

SET CURRENT EXPLAIN MODE

```
>>__SET CURRENT EXPLAIN MODE =__NO____><
|_YES_____|
|_EXPLAIN_____|
|_host-variable_|
```

SET CURRENT GET_ACCEL_ARCHIVE

```
>>__SET CURRENT_GET_ACCEL_ARCHIVE_ |__|__ NO____><
|_YES_____|
|_host-variable_|
```

SET CURRENT LOCALE LC_CTYPE

```
>>__SET_____LC_CTYPE_____|__|____>
| | I_CURRENT_____ |
| | I_LOCALE_| |
| I_CURRENT_LC_CTYPE_____ |
>____string-constant____><
|_host-variable_____|
```

SET CURRENT MAINTAINED TABLE TYPES FOR OPTIMIZATION

```

                                _TABLE_          _FOR OPTIMIZATION_  _=_
>> __SET CURRENT MAINTAINED_ | _____ | _TYPES_ | _____ | _ | _____ | _____ >
> __ALL _____ >>>
| _NONE _____ |
| _SYSTEM _____ |
| _SESSION USER _____ |
| | _USER _____ | |
| _host-variable _____ |

```

SET CURRENT OPTIMIZATION HINT

```

>> __SET CURRENT OPTIMIZATION HINT = _____ string-constant _____ >>
| _host-variable _____ |

```

SET CURRENT PACKAGE PATH

```

                                _=_      <_ , _____ >> __SET
CURRENT PACKAGE PATH | _____ | _____ collection-id _____ | _____ >>
| _SESSION_USER _____ |
                                | | _USER _____ | |
                                | _CURRENT PACKAGE PATH _____ |
                                | _CURRENT PATH _____ |
                                | _host-variable _____ |
                                | _string-constant _____ |

```

SET CURRENT PACKAGESET

```

>> __SET CURRENT PACKAGESET = _____ SESSION USER _____ >>
| | _USED _____ | |
                                | _string-constant _____ |
                                | _host-variable _____ |

```

SET CURRENT PRECISION

```

>> __SET CURRENT PRECISION = _____ string-constant _____ >>
| _host-variable _____ |

```

SET CURRENT QUERY ACCELERATION

```
>> __SET CURRENT QUERY ACCELERATION_ |__| _NONE_____><
|_ENABLE_____|
|_ENABLE WITH FAILBACK_|
|_ELIGIBLE_____|
|_ALL_____|
|_host-variable_____|
```

SET CURRENT REFRESH AGE

```
>> __SET CURRENT REFRESH AGE__|__|__numeric-constant_><
|_ANY_____|
|_host-variable_____|
```

SET CURRENT RULES

```
>> __SET CURRENT RULES =____string-constant_____><
|_host-variable_____|
```

SET CURRENT ROUTINE VERSION

```
>> __SET CURRENT ROUTINE VERSION_|__|__routine-version-id_____><
|_string-constant_____|
|_host-variable_____|
```

SET CURRENT SQLID

```
>> __SET CURRENT SQLID =____SESSION USER_____><
|_USER_____| |
|_string-constant_|
|_host-variable_____|
```

SET CURRENT TEMPORAL BUSINESS_TIME

```
>> __SET CURRENT TEMPORAL BUSINESS_TIME_|__|____NULL_____><
|_expression_____|
```

SET CURRENT TEMPORAL SYSTEM_TIME

```
>>__SET CURRENT TEMPORAL SYSTEM_TIME__|__|__NULL__><
|_expression__|
```

SET ENCRYPTION PASSWORD

```
>>__SET ENCRYPTION PASSWORD__|__|__password-host-variable__>
|_password-string-const__|
>
|
|_WITH HINT__|__|__hint-host-variable__|
|_hint-string-const__|
>< |
```

SET PATH

```
>>__SET__|__CURRENT__|__PATH__|__|__>
|_ , _>__schema-name__|
|_SYSTEM PATH__|
|_SESSION USER__|
||_USER__|_|
|_CURRENT__|
|_|__PATH__|
|_CURRENT PACKAGE PATH__|
|_host-variable__|
|_string-constant__|

</_>
```

SET SCHEMA

```
>>__SET__|__CURRENT__|__SCHEMA__|__|__schema-name__>
|_CURRENT_SCHEMA__|
|_SESSION USER__|
||_USER__|_|
|_host-variable__|
|_string-constant__|
|_DEFAULT__|
```

SET SESSION TIME ZONE

```
>> __SET_SESSION TIME ZONE__ | __=__ | __string-constant__>
|__host-variable__|
```

SIGNAL SQLSTATE

```
>> __SIGNAL__SQLSTATE_|__VALUE_|__sqlstate-string-constant-~__>
| | |__variable-name__| | |
|__condition-name__|
> (__diagnostic-string-constant__)><
```

TRANSFER OWNERSHIP

```
>> __TRANSFER OWNERSHIP OF__object_TO_new_owner__REVOKE PRIVILEGES__>
```

object:

```
> __DATABASE__database-name__><
|__INDEX__index-name__| |__STOGROUP__stogroup-
name__| |__TABLE__table-name__|
|__TABLESPACE__tablespace-name_| | |database-name_| | |__VIEW__
view-name__| new-owner: > __ROLE__role-
name__>< |__USER__
authorization-name__|
|__SESSION_USER__|
```

TRUNCATE

```
>> __TRUNCATE_|__TABLE_|__DROP STORAGE__>
|__table-name__| |__REUSE STORAGE_|
```

```
__IGNORE DELETE TRIGGERS__
> __|__RESTRICT WHEN DELETE TRIGGERS__|><
|__IMMEDIATE_|
```

UPDATE

searched-update:

```

>> __UPDATE__ table-name_____>
        |_view-name_| |_correlation-name_| |_include_column_|
> __SET__ assignment-clause_____>
        |_WHERE__ search-condition_|
> _____>
        |_SKIP LOCKED DATA_| |_QUERYNO__integer_|
        |_WITH____RR_____|
        |_RS_|
        |_CS_|

```

positioned update:

```

>> __UPDATE__ table-name_____SET_assignment-clause_____>
        |_view-name_| |_correlation-name_|
> _WHERE CURRENT OF_cursor-name_____><
|_FOR ROW__host-variable__OF ROWSET_| |integer-constant| period-clause:
>> _FOR PORTION OF BUSINESS_TIME__FROM_value1_TO_value2_____><
|_BETWEEN value1 AND value2__|

```

include-column:

```

        <_,_____>> _INCLUDE_(__column-name__ data-
type_|_|)_____>< data-type: >> __built-in
type_____><
|_distinct_type_name_| built-in-type:
> __SMALLINT_____
_____>< | | _INTEGER_|
|
| | |INT_| |
|
| | _BIGINT_____|
|
| _____(5,0)_____
|
| _DECIMAL_____| _____| _____
|_____
| | _DEC_____| |_( __integer_____ )_____|
|
| | _NUMERIC_| |_, integer_|
|
| _____(34)_____
|
| _DECFLOAT_
| _____| _____
|_____
|
| _____(16)_____|
|
| _____(53)_____
|

```

```

|__FLOAT__|_____|
|
| |      |_(__integer__)_|
|
|_|_REAL_____|
|
| |      |__PRECISION__|
|
|_|_DOUBLE__|_____|_|
|
|              |(1)|_____
|
|_____|_CHARACTER_____|_____|
|
| | | | |_CHAR_____| |_(integer)_____| |
|_|_FOR__BIT____DATA_|
| | | |__CHARACTER__VARYING__(integer)_____|
|
| | | | |_CHAR_____|
|
| | | |__VARCHAR_____|
|
|              |(1)|_____
|
|_|_GRAPHIC_|_____|_____|
|
| |      |_(__integer__)_____|
|
| |_|_VARGRAPHIC__(integer)_____|
|
|              |(1)|_____
|
|_|_BINARY__|_____|_____|
|
| |      |_(integer)_____|
|
| |_|_BINARY VARYING ____(integer)_____|
|
| | | | |_VARBINARY_____|
|
|_|_DATE_____|
|
|_|_TIME_____|
|
| |      |__(6_)_____|_|_WITHOUT TIME ZONE_|
|_|_TIMESTAMP_|_____|_|_|
|              |_(integer)_____|_|_WITH TIME ZONE_____|

```

assignment-clause:

```
<_, _____
>> _____column-name=____expression_____|_____>< |
|_DEFAULT_____|
| _____|_NULL_____|
| <_, _____<_, _____|
|_(_column-name_)__=__(_expression_|_____)_|
| |_DEFAULT_____|
| |_NULL_____|
|_row-fullselect_____|
|_UNPACK function invoc.____|
```

VALUES

```
>> __VALUES__expression_____><
| <_, _____|
|_(___expression_|_)_|
```

VALUES INTO

```
>> __VALUES__CURRENT PACKAGESET_____INTO__target-variable_____><
| |_CURRENT PACKAGE PATH_|
| |_CURRENT SERVER_____|
| <_, _____<_, _____|
|_(___expression_|_)_INTO_____target-variable_____|_____|_|_NULL_____|
|_array-variable_(array-index_)_| target-variable: >__global-variable-
name_____>< |_host-variable-
name_____|
|_SQL-parameter-name_____|
|_SQL-variable-name_____|
|_transition-variable-name_|
```

WHENEVER

```
>> __WHENEVER__NOT FOUND_____CONTINUE_____><
|_SQLERROR_____| |__GOTO_____host-label_|
|_SQLWARNING_| |_GO TO_|
```

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