


```
>> __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
```



```

                                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_____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_| | | | | | | | |_CHAR_____ | | | | |_UNICODE_| | | | | |_BIT_| | | | | |
|_VARCHAR_____ | | | | | |_(1M)_____ | | | | |_____CHARACTER____LARGE
OBJECT_| |_____ | | | | |
|_CHAR_____ | |_( __integer__ )_| | | | |_CCSID_ASCII___| | | | |_FOR_SBCS____DATA_| | | |

```



```

I __CLOB_____ | | _EBCDIC_ | | _MIXED_ | | | __ (1) _____
I _UNICODE_ | |
I _GRAPHIC_ | _____ | _____
_____ | | | | (__integer__) _____ | | | _CCSID_ ASCII _____ | | |
I _VARGRAPHIC_ (__integer__) _____ | | _EBCDIC_ _____ | | | | __ (1M) _____
I _UNICODE_ | | | | _DBCLOB_ | _____ | | | | _ (integer) _____ | | |
__ (1) _____ | | |
I _BINARY_ | _____ | _____
_____ | | | | _ (integer) _____ | | | | | _BINARY VARYING
__ (integer) _____ | | | | | _VARBINARY _____ | | | | |
__ (1M) _____ | | | | | _BINARY LARGE
OBJECT _____ | _____ | _____ | | | | | _BLOB _____ |
I (__integer _____) _____ | | | | | _K_ | | | | | _M_ | | | | | _G_ | |
DATE
_____ | | | | _TIME _____ | | | | | __ (_6_) _____ _WITHOUT TIME ZONE_ | |
I _TIMESTAMP_ | _____ | _____ | _____ | _____
_____ | | | | _ (integer_ ( | | | | _WITH TIME ZONE _____ | |
I _ROWID _____
_____ |
I _XML _____
_____ | 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_ | | _CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME _____ >
> _____ DYNAMICRULES RUN _____ >
  I _DYNAMICRULES BIND _____ | | _APPLICATION ENCODING SCHEME ASCII _____ |
  I _DYNAMICRULES DEFINEBIND_ | | _APPLICATION ENCODING SCHEME EBCDIC _____ |
  I _DYNAMICRULES DEFINERUN_ | | _APPLICATION ENCODING SCHEME UNICODE_ |
  I _DYNAMICRULES INVOKEBIND_ |
  I _DYNAMICRULES INVOKERUN_ |
> _____ WITHOUT EXPLAIN _____ ISOLATION LEVEL CS _____ OPHINT _____ ' ' _____ >
  I _WITH EXPLAIN _____ | | _ISOLATION LEVEL RS_ |      I _OPHINT_ string-constant_ |
  I _ISOLATION LEVEL RR_ |

```

```

                I_ISOLATION LEVEL UR_I
                </_><_ , _____ >_SQL PATH__schema-name| _____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

```



```

|_gbpcache-block_____|
|__CLUSTER_____|
| |_NOT CLUSTER_| |
|__COMPRESS NO_____|
| |_COMPRESS YES_| |
|__NOT PADDED_____|
| |_PADDED_____| |
|
|_ASC_____|
|_ADD COLUMN_(column name_|_|_)_____| |
|_|_DESC_|_| |
|_|_RANDOM_|_| |
|_INCLUDE COLUMN (column-name)|_|

```

```

>_____>
|<_,_____|| | | | | | |
| |<_,_____||
| | |<_____||
|_|_ALTER_|_|_partition-element_|_|_|_|_|
|_|_using-block_|_|
|_|_free-block_|_|
|_|_gbpcache-block_|_|
|_|_DSSIZE int G_|_|

```

using-block

```

<_____
>>__USING__VCAT__catalog-name_____>> |
|_STOGROUP__stogroup-name_| | |
|_|_PRIQTY__integer_|_|
|_|_SECQTY__integer_|_|
|_|_ERASE__YES_____|_|
|_|_NO_|_|

```

free-block

```

<_____
>>__FREEPAGE__integer_|_|>>
|_|_PCTFREE__integer_|_|_gbpcache-block
>>__GBPCACHE__CHANGED_____>>
|_|_ALL_|_|_|_NONE_|_|_|_partition-element
>>__PARTITION__integer_____>
|
|_|_AT_|_|</_><_,_____|_|_INCLUSIVE_|_| | | |
|_|_ENDING_|_|_|_(_constant_|_|_)_|_|_|_|
|_|_MAXVALUE_|_|
|_|_MINVALUE_|_|

```

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__,*__)_| |
```

```

|_ASUTIME___NO LIMIT_____|
|          |_LIMIT__integer_| |
|_STAY RESIDENT___NO_____|
|          |_YES_| |
|_PROGRAM TYPE___SUB_____|
|          |_MAIN_| |
|_SECURITY___DB2_____|
|          |_USER___| |
|          |_DEFINER_| |
|_RUN OPTIONS__run-time-options_____|
|_COMMIT ON RETURN___NO_____|
|          |_YES_| |
|_INHERIT SPECIAL REGISTERS___| |
| |_DEFAULT SPECIAL REGISTERS_| |
|_CALLED ON NULL INPUT_____|
|___STOP AFTER SYSTEM DEFAULT FAILURES_____|
| |_STOP AFTER integer FAILURES_____| |
| |_CONTINUE AFTER FAILURE_____| |
|_DISALLOW DEBUG MODE_____|
|_ALLOW DEBUG MODE_____| |
|_DISABLE DEBUG MODE_____| |

```

external-java-routine-name

```

|_ _____method-name_____ |
|_jar-name: _ | |_method-signature_| |

```

jar-name

```

|_ _____jar-id_____ |
|_schema-name._ | |

```

method-name

```

< _____
|_ _____ |_class-id___ . _____method-id_____ | |
|_package-id_ . _____ | |_!_____ |
|_/______ | |

```

method-signature

```

|_ _____ |
|_ ( _____ ) _ |
| < , _____ | |
|_java-datatype| _ |

```


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__
```



```

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 I_DEGREE 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 _____>
      |_SCHEMA PATH__| |_REOPT ALWAYS_| |_VALIDATE BIND_|
      |_SESSION USER_| |_REOPT ONCE__|
      |_USER_|

```

>

|>

```

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

```

> _____ FOR UPDATE CLAUSE

REQUIRED _____>

```

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

```

>

|>

```

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

```

>

```

|_SYSTIMESENSITIVE( |_NO_| )_| |_BUSTIMESENSITIVE( |_NO_| )_|

```

>

```

|_ARCHIVESENSITIVE( |_NO_| )_| |_APPLCOMPAT( __level__ )_|

```

>

```

|_CONCENTRATE STATEMENTS OFF _____|
|_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_ _____ >
|           | _____ | |
|   _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_____|

```



```

__(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_____ >> |

```



```

|___ 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___|

```


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
```



```

|         |
|         |          <_ , _____ | | | |
|         | |_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__ | _____ | _____ LOCATOR _____ >
                        | _____ |
                        <_, _____ > __ ( _____ rs-locator-
variable_|_) _____ >
> __WITH PROCEDURE__ procedure-name _____ >>
|_host-variable_|

```

BEGIN DECLARE SECTION

```
>> __BEGIN DECLARE SECTION _____ >>
```

CALL

```

>> __CALL__ procedure-name _____ >
                        |_variable_|
> _____ >>
|_( _____ )_|
| | | <_, _____ | | | |
| | | _____ expression _____ | | |
| | | | _NULL_____ | | |
| | | | _TABLE_ transition-table-name_| | |
|_USING DESCRIPTOR__ descriptor-name _____ |

```

CLOSE

```
>> __CLOSE__ cursor-name _____ >>
```

COMMENT ON

```

>> __COMMENT ON _____ >
> _____ alias-designator _____ IS string-constant_ >< |
|_COLUMN__ table-name ____ .column-name _____ || | | |_view-name_| ||
| | | _ACTIVE VERSION _____ || | | |_function-
designator_| _____ || | | |_VERSION_ routine-version-
id_ || | | |_INDEX_ index-name _____ || |
|_PACKAGE_ collection-id.package-name _____ || | | | _VERSION_ || | |
| | | _____ |_id_| || | | |_PLAN_ plan-
name _____ || | | | _ACTIVE VERSION _____ || |
|_PROCEDURE_ procedure-name_| _____ || | | |_VERSION_ rt-ver-
id_ _____ || | | |_ROLE_ role-name _____ || |

```

```

|_SEQUENCE_sequence-name_____|| | |_TABLE___table-
name_____|| | | |_view-name_| || |
|_TRIGGER_trigger-name_____|| | |_TRUSTED
CONTEXT_context-name_____|| | |_TYPE___distinct-type-
name_____|| | |_MASK___mask-
name_____|| | |_PERMISSION_permission-
name_____|| | |_multiple-
column_list_____| alias-designator: _FOR
TABLE_____ >>_____ALIAS_alias-name_
|_____|_____>
|_PUBLIC_| |_____
|_FOR SEQUENCE_|

```

multiple-column-list

```

<_ , _____ >>_table-
name_____(_column-name__IS__string-constant_|_)_____>
|_view-name_|

```

function-designator

```

>>_ FUNCTION_function-name_____>
|_____ | </_><_ , _____ | | |
|_( _____ |_) | | | | _____ | | | |_parameter-
type_| | |___SPECIFIC FUNCTION_specific-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__| |__(length__)| | | |__FOR__SBCS__DATA_|
| |
| | |__CHARACTER__VARYING__(length__)| | | |__MIXED__|
| |
| | | |__CHAR__| | | |__BIT__|
| |
| | |__VARCHAR__|
| |
| | | |__(1M)|
| |
| |__CHARACTER__LARGE OBJECT_| | | | | | | | | | |
| | | |
| | | |__CHAR__| | | |__(integer__)| | | |__FOR__SBCS__DATA_|
| |
| | |__CLOB__| | | |__MIXED__|
| |
| | | |__(1)|
| |
|__GRAPHIC__|_____|_____
|
| | | |__(integer__)| | | |
| |
| |__VARGRAPHIC____(integer__)|
| |
| | | |__(1M)|
| |
| |__DBCLOB__|_____|_____
|

```


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)_____ | | | | |_UNICDOE___ | | | | |_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_____
```

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

option-list:

> __LANGUAGE SQL_____>
 |_SPECIFIC specific-name_____|
> _____NOT DETERMINISTIC_____EXTERNAL ACTION_____>
 |_DETERMINISTIC_____| |_NO EXTERNAL ACTION_|
> _____READS SQL DATA_____CALLED ON NULL INPUT_____>
 |_CONTAINS SQL_____| |_RETURNS NULL ON NULL INPUT_|
 |_MODIFIES SQL DATA_|
> _____STATIC DISPATCH_____ALLOW PARALLEL_____>
 |_DISALLOW PARALLEL_|

> __DISALLOW DEBUG MODE_____PARAMETER CCSID ASCII_____QUALIFIER schema-name_>
 |_ALLOW DEBUG MODE_____|_PARAMETER CCSID EBCDIC_|
 |_DISABLE DEBUG MODE__|_PARAMETER CCSIS UNICODE_|
> __PACKAGE OWNER__authorization-name___ASUTIME_NO LIMIT_____>
 |_ASUTIME_LIMIT__integer_|
> __INHERIT SPECIAL REGISTERS_____WLM ENVIRONMENT FOR DEBUG MODE name_____>
 |_DEFAULT SPECIAL REGISTERS_|
> __CURRENT DATA NO_____CONCURRENT ACCESS RESOLUTION USE CURRENTLY COMMITTED_>
 |_CURRENT DATA YES__|_CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME_____|
> _____DYNAMICRULES RUN_____>
 |_DYNAMICRULES BIND_____| |_APPLICATION ENCODING SCHEME ASCII___|
 |_DYNAMICRULES DEFINEBIND_| |_APPLICATION ENCODING SCHEME EBCDIC___|
 |_DYNAMICRULES DEFINERUN__| |_APPLICATION ENCODING SCHEME UNICODE_|
 |_DYNAMICRULES INVOKEBIND_|
 |_DYNAMICRULES INVOKERUN__|
> __WITHOUT EXPLAIN_____ISOLATION LEVEL CS___OPHINT___' '_____>
 |_WITH EXPLAIN_____|_ISOLATION LEVEL RS_| |_OPHINT_string-constant_|
 |_ISOLATION LEVEL RR_|
 |_ISOLATION LEVEL UR_|
 </_><_ , _____>_SQL PATH__schema-name|_____REOPT
NONE_____VALIDATE RUN_____DEGREE 1_____>
 |_SCHEMA PATH__| |_REOPT ALWAYS_|_VALIDATE BIND_|_DEGREE ANY_|
 |_SESSION USER_| |_REOPT ONCE___|
 |_USER_|
> _____>
 |_QUERY ACCELERATION NONE_____| |_GET_ACCEL_ARCHIVE_NO___|
 |_QUERY ACCELERATION ENABLE_____| |_GET_ACCEL_ARCHIVE_YES__|
 |_QUERY ACCELARATION ENABLE WITH FAILBACK_|
 |_QUERY ACCELERATION ELIGIBLE_____|
 |_QUERY ACCELERATION ALL_____|


```

> _____>
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

```

```

> _____>
BUSINESS TIMESENSITIVE YES_   SYSTEM TIMESENSITIVE YES_
I_____I_____I_____I_____

```

```

>
I_BUSINESS TIMESENSITIVE NO __I   I_SYSTEM TIMESENSITIVE YES_

```

```

> _____>
ARCHIVE SENSITIVE YES___
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

```

```
l_( _____ )_l
  | <_ , _____ |
  |__java-datatype1__|
```

CREATE FUNCTION (external scalar)

```
>> __CREATE FUNCTION__ function-name__ ( _____ )__>
      | <_ , _____ |
l__parameter_declaration_l_l >__RETURNS__ data-
type2_____ option-list_____ >< | | _AS LOCATOR_____ | |
l_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
```

```

OBJECT_____ | _____ | _____ | | | | | _BLOB_____ |
| ( _integer_____ ) _____ | | | | | _K_ | | | | | _M_ | | | | | _G_ | | |
| _DATE_____
_____ | | | | _TIME_____ | | | | | _ ( _6_ ) _____ _WITHOUT TIME ZONE_ | |
| _TIMESTAMP_ | _____ | _____ | _____ |
_____ | | | | (integer_) | | _WITH TIME ZONE_____ | |
| _ROWID_____
_____ | option-list:
>> _____ >
| _SPECIFIC_ specific-name_ | | < _____ | | | | | | | | | |
| _PARAMETER_ CCSID_ ASCII_____ | | | | | _EBCDIC_ | | | | | _UNICODE_ | |
| _VARCHAR_ NULTERM_____ | | _STRUCTURE_ |
> _EXTERNAL_____ LANGUAGE_____ ASSEMBLE_____ >
| _NAME_ ___ 'string' _____ | | _C_____ | | | |
| _identifier_ | | | | | _COBOL_____ |
| | | | | _JAVA_____ |
| | | | | _PLI_____ |
| _PARAMETER STYLE SQL_____ | _NOT DETERMINISTIC_____ | _FENCED_____
> | _____ | | _____ | _____ | _____ | _____ >
| _PARAMETER STYLE JAVA_ | | | _DETERMINISTIC_____ |
| _RETURNS NULL ON NULL INPUT_____ | _____ | _READS SQL DATA_____
> | _____ | _____ | _____ | _____ >
| _CALLED ON NULL INPUT_____ | _____ | _NO SQL_____ | | |
| | | | | _MODIFIES SQL DATA_ |
| | | | | _CONTAINS SQL_____ |
| _EXTERNAL ACTION_____ | _NO SCRATCHPAD_____
> | _____ | _____ | _____ | _____ >
| _NO EXTERNAL ACTION_ | | | _____ | _100_____ | | |
| | | | | _SCRATCHPAD_ | _____ | |
| | | | | _length_ |
| _NO FINAL CALL_____ | _ALLOW PARALLEL_____ | _____ | _NO DBINFO_____
> | _____ | _____ | _____ | _____ | _____ >
| _FINAL CALL_____ | | | _DISALLOW PARALLEL_ | _____ | _DBINFO_____ |
| _NO COLLID_____
> | _____ | _____ | _____ | _____ >
| _COLLID_ collection-id_ | | | _WLM ENVIRONMENT_ name_____ |
| | | | | ( name ) |
| _ASUTIME NO LIMIT_____ | _____ | _STAY RESIDENT NO_____
> | _____ | _____ | _____ | _____ >
| _ASUTIME_ LIMIT_ integer_ | | | _STAY RESIDENT YES_ |
| _PROGRAM TYPE SUB_____ | _____ | _SECURITY DB2_____
> | _____ | _____ | _____ | _____ >
| _PROGRAM TYPE MAIN_ | | | _SECURITY_____ USER_____ |
| | | | | _DEFINER_ |
| _STOP AFTER SYSTEM DEFAULT FAILURES_____
> | _____ | _____ | _____ >
| _STOP AFTER integer FAILURES_____ |

```

```

    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_____I_____>>
I_SECURED_____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

```

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_I_BIGINT_____I I I
_____(5,0)_____I

```

```

|__DECIMAL__|_____|
|__DEC__(__integer__)|
|__NUMERIC__(integer)(34)|__DECFLOAT__
|__(16)|__(53)| | |
|__FLOAT__|_____|
|__(integer)|__REAL__|
|__PRECISION__|__DOUBLE__(1)|
|__CHARACTER__(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)|__VARIABLE__|
|(1M)|__BINARY__LARGE
OBJECT__|__BLOB__|
|__(integer)|__K__|__M__|__G__|
|__DATE__|
|__TIME__(6)|__WITHOUT__TIME__ZONE__|
|__TIMESTAMP__(integer)|__WITH__TIME__ZONE__|
|__ROWID__|option-list:
>>_____|
|__SPECIFIC__specific-name__|_____| |
|__PARAMETER__CCSID__ASCII__|__EBCDIC__|__UNICODE__|
|__VARCHAR__NULTERM__|__STRUCTURE__|
>__EXTERNAL__LANGUAGE__ASSEMBLE__>
|__NAME__'string'__|__C__|
|__identifier__|__COBOL__|
|__PLI__|
|__PARAMETER__STYLE__DB2SQL__|__NOT__DETERMINISTIC__|__FENCED__|
>|_____|_____|_____|_____|_____|>
|__DETERMINISTIC__|
|__RETURNS__NULL__ON__NULL__INPUT__|__READS__SQL__DATA__|
>|_____|_____|_____|_____|>

```



```

> _____>
  |_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_|_____I_|
|
|          __ (1) _____
|
|_____ CHARACTER _____|_____
|
| | | |_CHAR_____I |_(length_)_____| | |_CCSID_ASCII_____|
|_FOR_SBCS_DATA_| | |
| | |_____ CHARACTER_VARYING__(length_)_____| |_EBCDIC_| |_MIXED_|
| |
| | | |_CHAR_____I | | |_UNICODE_|
| |
| | |_VARCHAR_____I
| |
| |          __ (1M) _____
| |
| |_____ CHARACTER_LARGE OBJECT _____| | | | | | | | |
| | | |_CHAR_____I | | |_(integer)_____| | |_CCSID_ASCII_____|
|_FOR_SBCS_DATA_| | |
| | |_CLOB_____I | | |_EBCDIC_|
|_MIXED_| | |
| |          __ (1) _____ | |_UNICODE_|
|
|_GRAPHIC_|_____I|_____
|
| | | |_(integer)_____| | | |_CCSID_ASCII_____|
|
| |_VARGRAPHIC__(integer)_____| | |_EBCDIC_|
|
| | |          __ (1M) _____ | |_UNICODE_|
|
| |_DBCLOB_|_____I|
|
| | | |_(integer)_____|
|
| | |          __ (1) _____
|
|_BINARY_|_____I|_____
|
| | | |_(integer)_____| |
|
| |_BINARY VARYING__(integer)_____|
|
| | |_VARBINARY_____I |
|

```



```

| |
| |          |(1M)|
| |
| |_BINARY LARGE OBJECT| | |
| |
| |_BLOB| | |_(integer)| | |
| |
| |
| |          |_K_|
| |
| |          |_M_|
| |
| |          |_G_|
| |
| |
| |_DATE|
| |_____|
| |
| |_TIME|
| |
| |
| |          |_(6)| | |_WITHOUT TIME ZONE_|
| |
| |
| |_TIMESTAMP| | | | | | |
| |_____|
| |
| |          |_(integer)| | |_WITH TIME ZONE_|
| |
| |
| |_ROWID|
| |_____|

```

CREATE FUNCTION (inline SQL scalar)

```

>> __CREATE FUNCTION__ function-name ( _____ ) ____ >
| |          | | < , _____ |
| |
| |__parameter-declaration| | |_LANGUAGE SQL_ >_RETURNS_ data-
type2_| _____ |_option-list_ SQL-routine-body ____ >< parameter-
declaration: >> _____ data-
type _____ >< |_parameter-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) _____ |

```

```

I __ FLOAT __ I _____ |
_____ | | | | (__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 _____ | | | |
| VARCHAR _____ (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 _____
_____ | SQL-control-body: >> _____ SQL-control-
statement _____ >

```

option-list:

```

> _____ >
| _____ SPECIFIC specific-name _____ |

> _____ NOT DETERMINISTIC _____ EXTERNAL ACTION _____ >
| _____ DETERMINISTIC _____ | | _____ NO EXTERNAL ACTION _____ |
> _____ READS SQL DATA _____ CALLED ON NULL INPUT _____ >
| _____ CONTAINS SQL _____ |
> _____ PARAMETER CCSID ASCII _____ SECURED _____ STATIC DISPATCH _____ >
| _____ PARAMETER CCSID EBCDIC _____ | | _____ NOT SECURED _____ |
| _____ PARAMETER CCSID UNICODE _____ |

```

SQL-routine-body:

```

>> _____ RETURN statement _____ >

```

</_>

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)_____ |

| _____| _____| _____

_____ | | | | |_CHAR_| _____ | | | | |_(length_)_____ | | | | |_CCSID_ASCII_|

|_FOR_SBCS_| _____| | | | | |_CHARACTER_VARYING_| _____ |

|_EBCDIC_| | | | | |_MIXED_| | | | | |_CHAR_| | | | | |_UNICODE_| | | | |

|_VARCHAR_| _____ | | | | |_(1M)_____ | | | | |_CHARACTER_| _____| _____|

_____| _____| _____| | | | |

|_CHAR_| _____ | | | | |_(integer_)_| | | | | |_CCSID_ASCII_| | | | | |_FOR_SBCS_| _____| | | |

|_CLOB_| _____ | | | | |_EBCDIC_| | | | | |_MIXED_| | | | | |_(1)_____

|_UNICODE_| | |

|_GRAPHIC_| _____| _____

_____ | | | | |_(integer_)_____ | | | | |_CCSID_ASCII_| | | | |

|_VARGRAPHIC_| _____ | | | | |_(integer_)_____ | | | | |_EBCDIC_| | | | |

_____| _____ | | | | |_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_____
_____ | option-list: > _____ LANGUAGE
SQL_____ >
_____ | _SPECIFIC_specific-name_|
> _____ NOT DETERMINISTIC_____ EXTERNAL ACTION_____ >
|_ DETERMINISTIC_____ | | _NO EXTERNAL ACTION_|
> _____ READS SQL DATA_____ CALLED ON NULL INPUT_____ >
|_ CONTAINS SQL_____ |
> _____ INHERIT SPECIAL REGISTERS_____ STATIC DISPATCH_____ >
_____ | _CARDINALITY int_|
> _____ SECURED_____ PARAMETER CCSID_____ >
|_ NOT SECURED_| | _ASCII_|
| _EBCDIC_|
| _UNICODE_|

```

SQL-routine-body:

```

>> _RETURN statement_____ >>
|_ BEGIN ATOMIC RETURN statement_END_|

```

CREATE GLOBAL TEMPORARY TABLE

```

_____ < _____ >> _CREATE GLOBAL
TEMPORARY TABLE_table-name_( _column-spec_|_ )_____ >
_____ | _LIKE_ table-name_____ |
_____ | _view-name_|
> _____ >
|_ CCSID_____ ASCII_____ |
| _EBCDIC_|
| _UNICODE_|

```

column-spec:

```

>> _column-name_data-type_____ >
_____ |_ NOT NULL_|

```

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 OBJECT_ _____ | _____ | _____ |
| |
| | | | _BLOB_ _____ | | _____ (integer) _____ |
| |
| | | | _____ | | _K_ |
| |
| | | | _____ | | _M_ |
| |
| | | | _____ | | _G_ |
| |
| | _____
| |
| | _____ DATE _____
```

```

|
| | TIME |
|
| | (6) | WITHOUT TIME ZONE |
|
|
| | TIMESTAMP | | |
|
| | (integer) | | WITH TIME ZONE |
|
| 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 | |
> >

```

```

| < , _____ |
| _____ | < _____ | |
|_PARTITION BY_|_____|_partition-element_____|_|_____)|
|_using-block_____|
|_free-block_____|
|_gbpcache-block_|
|_DSSIZE_int_G____|

< _____
> _____ | _____>
< |_BUFFERPOOL_bpname_____||_YES_| |_CLOSE_|_NO_|_____||
|_NO_| |_DEFER_|_YES_|_____||_NO_| |_COPY_|_YES_|_____||
|_DSSIZE_integer_____G_____| |_PIECESIZE_integer____K____| |_M_| |_G_| XML-
index-specification: >>_GENERATE KEY USING_____XMLPATTERN_xml-pattern-
clause_AS_sql-data-type_>< |_GENERATE KEYS USING_| XML-pattern-clause:
>>_____ pattern-expression_____><
|_ proglog _|

```

prolog:

```

< _____ >>__declare
names NOName = StringLiteral ; _____|_____>< |_declare
default element namespace StringLiteral ;___| pattern-expression:
>> _____>
| < _____ | |___/___ forward-
axis__element-name_____||_|_//_|_|| |_*_____|| |
|_nsprefix:*_____|| | |_*:NOName_____|| |
|_*_____||
>> _____>
|___/___@attribute-name_____|| | | |
|_//_|_||_attribute::attribute-name_____||
|_@*_____||
|_attribute::*_____||
|_forward axis__text()_____||

```

Forward-axis:

```

__child::_______
>> _____| _____>
|_descendant::_______||
|_self::_______||
|_descendant or self::_______||

```

SQL-data-type:

```

>> __SQL__VARCHAR__(integer)_____><
|_(34)| |_DECFLOAT_|_____|_____| |_DATE_____|| |_(12)| |
|_TIMESTAMP_|_____|__| using-block:
>> __USING_____>
> ___VCAT__catalog-name_____>< |
< _____ |

```



```

I_STOGRoup__stogroup-name_____|_____|
|_____|_12_____| |
|_PRIQTY_|_integer_|_|
|_SECQTY_|_integer_____|
|_____|_NO_____|
|_ERASE_|_YES_|_____|

```

free-block:

```

<_____0_____|
>>_____FREEPAGE_|_integer_|_____|_____><|
_10_____||_PCTFREE_|_integer_|_____|gbpcache-block:_CHANGED_
>>_GBPCACHE_|_ALL_____||_____><
|_NONE_____|

```

partition-element:

```

_____AT_<_,_____INCLUSIVE_
>>_PARTITION_|_integer_|_ENDING_|_____|_(constant_|_)|_____|_____|><
|_MAXVALUE_|
|_____MINVALUE_|

```

CREATE MASK

```

>>_CREATE MASK_|_mask-name_|_ON_|_table-name_____>
|_AS_|
|_|_|_correlation-name_|
>_FOR COLUMN_|_column-name_____RETURN case-expression_____DISABLE_____><
|_ENABLE_|

```

CREATE PERMISSION

```

>>_CREATE PERMISSION_|_permission-name_|_ON_|_table-name_____>
|_AS_|
|_|_|_correlation-name_|
>_FOR ROWS WHERE_|_search-condition_____ENFORCED FOR ALL ACCESS_____DISABLE_____><
|_ENABLE_|

```

CREATE PROCEDURE (external)

```

>>_CREATE PROCEDURE_|_procedure-name_____>
<_,_____
>_(_____)|_)_option-list_____><
|_parameter-declaration_|_parameter-declaration:|_IN_____

```

```

> __I_OUT__ | _____ parameter-type _____ >
  |_INOUT__ | |_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_| | | | |_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 _____
_____ | option-list: _DYNAMIC RESULT SET 0 _____ |
>> __| _____ | _____ >

```

```

I_DYNAMIC_RESULT SET integer_1
>
I_PARAMETER CCSID ASII |
| I_EBCDIC | |
| I_UNICODE | |
| VARCHAR NULTERM |
| STRUCTURE |
> EXTERNAL LANGUAGE ASSEMBLE >
| NAME 'string' | | C |
| identifier | | COBOL |
| | | JAVA |
| | | PLI |
| | | REXX |
| PARAMETER STYLE SQL |
> | |
| PARAMETER STYLE |
| |
| GENERAL |
| GENERAL WITH NULLS |
| JAVA |
| NOT DETERMINISTIC | FENCED |
> | | |
| DETERMINISTIC |
| CALLED ON NULL INPUT | MODIFIES SQL DATA |
> | | |
| NO SQL |
| CONTAINS SQL |
| READS SQL DATA |
| NO PACKAGE PATH |
> | |
| PACKAGE PATH package-path |
| NO DBINFO | NO COLLID |
> | | |
| DBINFO | | 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_|
>|_____|_____>>
|_DISALLOW DEBUG MODE_____|
|_ALLOW DEBUG MODE_____|
|_DISABLE DEBUG MODE_____|

```

external-java-routine-name

```

|_____method-name_____|
|_jar-name:_| |_method-signature_|

```

jar-name

```

|_____jar-id_____|
|_schema-name_|

```

method-name

```

<_____
|_____|_class-id_| |_method-id_|
|_package-id_| |_!_|
|_/_____|

```

method-signature

```

|_____|
|_(_____)_|
|<_| |
|_java-datatype_|

```

CREATE PROCEDURE (SQL – external)

```

>>_CREATE PROCEDURE__procedure-name_____>
    <_ ,_____ >_(_____)_|_option-
list__SQL-routine-body_____>>|_parameter-declaration_| parameter-
declaration: _IN_____ >_|_OUT_____|_____parameter-
type_____>
    |_INOUT_____| |_parameter-name_|

```

parameter-type:

```

>>__built-in data-type____>>
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
OBJECT_____| |_____| |_____| | | | | |__BLOB_____| |
| |__(integer____)_____| | | | | |__K_| | | | | |__M_| | | | | |__G_| | |
|__DATE_____|
____ | | | |__TIME_____| | | |
|__TIMESTAMP_| |_____| |_____| |_____|
____ | option-list: __FENCED_ >>__LANGUAGE
SQL_| |_____| |_____| >
____ |__EXTERNAL NAME_____'string'_____| |
____ |__identifier_|
____ |__DYNAMIC RESULT SET 0_____|
> |_____| |_____| >
____ |__DYNAMIC_RESULT__SET__integer_|
> |_____| >
____ |__PARAMETER_____| |__CCSID_ASCII_____| |
____ |__EBCDIC_| |
____ |__UNICODE_| |

```

```

> _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_|

```

parameter-declaration:

```
  _IN_
> | _____ | __parameter-name__parameter-type_____ >
  | _OUT_ |
  | _INOUT_ |
```

parameter-type:

```
>> __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)_____ | | | | | _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_ _____ | |
| _XML_ _____
_____ | option-list: _NOT DETERMINISTIC_ _MODIFIES SQL DATA_ >>_
| _____ | _____ | _____ | _____ >
```



```

I_WITH_EXPLAIN___ | I_WITH_IMMEDIATE_WRITE___ |
  _ISOLATION_LEVEL_CS_  _WITHOUT_KEEP_DYNAMIC_
> |_____ |_____ |_____ >
  I_ISOLATION_LEVEL_RS_ | I_WITH_KEEP_DYNAMIC___ |
  I_ISOLATION_LEVEL_RR_ |
  I_ISOLATION_LEVEL_UR_ |
  _OPHINT_____
> |_____ |_____ >
  I_OPHINT__string-constant___ |
> _____ >
  I_SQL_PATH__schema_name_____ |
  I_SQL_PATH__schema_name_list_____ |
  I_SQL_PATH__SESSION_USER or USER_ |
  I_SQL_PATH__DEFAULT_____ |

> _____ >
  I_QUERY_ACCELERATION_NONE_____ | I_GET_ACCEL_ARCHIVE_NO___ |
  I_QUERY_ACCELERATION_ENABLE_____ | I_GET_ACCEL_ARCHIVE_YES___ |
  I_QUERY_ACCELERATION_ENABLE_WITH_FAILBACK_ |
  I_QUERY_ACCELERATION_ELIGIBLE_____ |
  I_QUERY_ACCELERATION_ALL_____ |

  _RELEASE_AT_COMMIT_____  _REOPT_NONE_____
> |_____ |_____ |_____ >
  I_RELEASE_AT_DEALLOCATE___ | I_REOPT_ALWAYS___ |
  I_REOPT_ONCE___ |

  _VALIDATE_RUN_____
> |_____ |_____ >
  I_VALIDATE_BIND_ | I_ROUNDING_DEC_ROUND_CEILING___ |
  I_ROUNDING_DEC_ROUND_DOWN_____ |
  I_ROUNDING_DEC_ROUND_FLOOR_____ |
  I_ROUNDING_DEC_ROUND_HALF_DOWN_ |
  I_ROUNDING_DEC_ROUND_HALF_EVEN_ |
  I_ROUNDING_DEC_ROUND_HALF_UP___ |
  I_ROUNDING_DEC_ROUND_UP_____ |

> _____ >
  I_DATE_FORMAT_ISO___ | I_DECIMAL(15)___ |
  I_DATE_FORMAT_EUR___ | I_DECIMAL(31)___ |
  I_DATE_FORMAT_USA___ | I_DECIMAL(15,s)_ |
  I_DATE_FORMAT_JIS___ | I_DECIMAL(31,s)_ |
  I_DATE_FORMAT_LOCAL_ |

  _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( |_NO_| )_| |_BUSTIMESENSITIVE( |_NO_| )_|
> _____>
  |_____ _YES_ |_____ |
  |_ARCHIVESENSITIVE( |_NO_| )_| |_APPLCOMPAT( __compatibility-level_| )_|

```

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__ | _____ |
| _____ | _____ | _____ | _____ |

```



```

|          |_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_) _____ |
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_|

as-identity clause:

>> __AS IDENTITY _____ >>
|_<_, _____ | |_1 _____ | |
|_(_____ START WITH_|_numeric-constant_| _____ |_)_| |_1 _____ | |
|_INCREMENT BY_|_numeric-constant_| _____ | |_CACHE 20 _____ | | |_NO
CACHE _____ | _____ | | |_CACHE_integer_| | | |_NO CYCLE_| |
|_CYCLE _____ | _____ | | |_NO MAXVALUE _____ | |
|_MAXVALUE_numeric-constant_| _____ | | |_NO MINVALUE _____ | |
|_MINVALUE_numeric-constant_| _____ | | |_NO ORDER_| |
|_ _____ | _____ | |_ORDER _____ | as-row-change-timestamp-

clause: >> __FOR EACH ROW __ON UPDATE __AS ROW

CHANGE __TIMESTAMP _____ >< as-row-transaction-timestamp-clause:

>> __AS ROW __BEGIN _____ ><

|_END_| as-row-transaction-id-clause: >> __AS TRANSACTION START
ID _____ >< as-generated-expression-

clause: >> __AS (_non-deterministic-
expression_) _____ >< non-deterministic-

expression: >> __DATA CHANGE

OPERATION _____ >< |_special-
register _____ | |_session-variable _____ | special register: >> __CURRENT

CLIENT_ACCTNG _____ >< |_CURRENT

CLIENT_APPLNAME _____ | |_CURRENT CLIENT_CORR_TOKEN _____ | |_CURRENT

CLIENT_USERID _____ | |_CURRENT CLIENT_WRKSTNNAME _____ | |_CURRENT

SERVER _____ | |_CURRENT SQLID _____ |

|_SESSION_USER _____ | session-variable:

>> __SYSTEM.PACKAGE_NAME _____ ><

|_SYSTEM.PACKAGE_SCHEMA _____ | |_SYSTEM.PACKAGE_VERSION _____ |

column-constraint: >> _____ PRIMARY

KEY _____ >< |_CONSTRAINT_constraint-name_| | |_UNIQUE _____ |

| |_references clause _____ | |_CHECK(_check-condition_) _____ |

period-definition: __FOR__

>> __PERIOD_| _____ | _____ ><>

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

|_BUSINESS_TIME _____ (_begin-column-name, end-column-name_)_EXCLUSIVE _____ |

|_INCLUSIVE _____ |

unique-constraint:

```

>> _____ PRIMARY KEY ( _____ )
|_CONSTRAINT_ constraint-name |_UNIQUE_ |
> _____ ) _____
|_ ,_ BUSINESS_TIME WITHOUT OVERLAPS _____ |

```

referential-constraint:

```

>> _____ FOREIGN KEY ( _____ )
|_CONSTRAINT_ constraint-name | |_PERIOD_BUSINESS_TIME_ | >_references-
clause _____ >< references-
clause: >>_REFERENCES_ table-
name _____ >
| _____ | | _____ | | ( _____ column-
name_ |_) |
> _____ ><
|_ON DELETE_ RESTRICT _____ | |_NO ACTION_ | |_CASCADE_ | |_SET NULL_ |
|_ENFORCED_ _____ _ENABLE QUERY OPTIMIZATION_
> _____ | _____ | _____ | _____ ><
|_NOT ENFORCED_ | check-constraint:
>> _____ CHECK (check-condition) _____ ><
|_CONSTRAINT_ constraint-name | as-result-table:
>> _____ AS (fullselect) WITH NO DATA _____ >< |
< _____ |
|_ (column-name_ |_) |

```

copy-options:

```

< _____ _COLUMN
ATTRIBUTES_ | _EXCLUDING IDENTITY_ | _____ | _____ |
>> _____ | _____ | _____ | _____ >
| | _____ _COLUMN ATTRIBUTES_ | | | |
| |_INCLUDING IDENTITY_ | _____ | |
| | _____ _COLUMN ATTRIBUTES_ | |
| |_EXCLUDING ROW CHANGE TIMESTAMP_ | _____ | |
| | _____ | |
| | _____ _COLUMN ATTRIBUTES_ | |
| |_INCLUDING ROW CHANGE TIMESTAMP_ | _____ | |
| | _____ _COLUMN_ | |
| |_EXCLUDING_ | _____ | _DEFAULTS_ |
| | _____ | _____ |
| | _____ _COLUMN_ | |
| |_INCLUDING_ | _____ | _DEFAULTS_ | |
| |_USING TYPE DEFAULTS_ _____ | |
| |_EXCLUDING XML TYPE MODIFIERS_ _____ |

```

partitioning-clause:


```

>
|_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_____ >< |
<_____ |
|_STOGRROUP__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 MUTLIPL E TABLES YES_|

```

partition-by-range-specification:

```
< _____
> _____ |>
| _____ |
|_NUMPARTS_ integer _____ |
| _____ | | _MEMBER CLUSTER_ |
| _____ | |
| (_PARTITION_ integer _using-block_ |_) |
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |
| _____ |
|_MEMBER CLUSTER_ _____ |
```

CREATE TRIGGER (advanced)

```
_____ _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_ | _____ | _____ | | _AS_ |
|_NEW_ | _____ | _____ | | _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_ ( _____ )_ |
```

SQL-trigger-body:

```
> _____ 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
>_____>

```



```

> _____>
| _____ | | WITH
USE FOR _____ authorization-name _____ | _____ |>
| _____ | user-options _____ | _____ |
| _____ | _EXTERNAL SECURITY PROFILE_profile-name _____ |
| _____ | _WITHOUT AUTHENTICATION_ | user-options _____ |
| PUBLIC _____ | _____ | _____ |
| _____ | WITH AUTHENTICATION _____ |

```

user-options:

```

_____ _WITHOUT AUTHENTICATION_
>> _____ | _____ |>
| ROLE_role-name_ | SECURITY LABEL_seclabel-name_ | WITH AUTHENTICATION_ |
</_>

```

CREATE TYPE (array)

```

_____ _2147483647_
>> _CREATE TYPE_array-type-name_AS_built-in-type_ARRAY_ | _____ | _____>
| _____ |
| data-type2_ |

```

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_____ | 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_|
|_____ |
|_____ |
|_____ |

```

```

|         |_(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_|_____ |_____ |_____ |_____ |
|_____ |
|      |_(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 _____ >
| _____ |
| _____ | _SCROLL_|
| _____ |
| _____ _DYNAMIC_ |
| _____ |__|
| _____ |
|_____ < _____ > _CURSOR _____
|_____ >
|_____ |
|_____ |
|_____ |
> __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 I __ON ROLLBACK PRESERVE ROWS__ I
column-spec: >> __column-name__ data-
type _____>
< _____>
_____ I _____>> I __NOT
NULL_____ I I __WITH__ I
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 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 __DEC__ I I (____ integer_____ ) _____ I I
I I I __NUMERIC__ I I , integer__ I I I I (34)_____ I I I __DECFLOAT__
I _____ I
_____ I I I I (16)_____ I I I I (53)_____ I
I __FLOAT__ I _____ I
_____ I I I I I (____ integer__ ) I I I I I __REAL_____ I 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 __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 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_BLOB_____I | I_(integer_____)_____|
|
|                                     I_K_I
|
|                                     I_M_I
|
|                                     I_G_I
|
|_DATE_____
|_____I
| I_TIME_____I
|
| I      __(_6_)____    _WITHOUT TIME ZONE_
|
|_TIMESTAMP_I_____|_____|_____I_____
|_____I
|      I_(integer_)_I | I_WITH TIME ZONE_____|
|
|_ROWID_____
|_____I

```

DECLARE VARIABLE

```

                                _CCSID EBCDIC__
>> DECLARE__host-variable|_VARIABLE_I_____I_____><
||_CCSID ASCII__I | I_FOR SCBS DATA__||
                                ||_CCSID UNICODE_I | I_FOR MIXED DATA__||
                                | | I_FOR BIT DATA__||
                                I__CCSID__integer_____I

```

DELETE

sarched delete:

```

>> __DELETE FROM__table-name_____>
        I_view-name__I | I_period-clause_| I_correlation-clause_|
>_____>
        I_include-column_I      I_SET assignment-clause_I
>_____>
        I_WHERE__search-condition_| I_isolation-clause_|
        I_SKIP LOCKED DATA__I
>_____><
I_QUERYNO__integer_I 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_| _____|
_____|
| | _____(_____)_|
|
| |_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_____ ALIAS__ alias-name_|_|_FOR TABLE_____>>  
| |_PUBLIC_|          |_FOR SEQUENCE_|          |  
  |_DATABASE__ database-name_____ |  
  |_TYPE_____ distinct-type-name__ RESTRICT_____ |
```



```

|          __(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)_____

```

```

|
|_
|_ 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 _____
|_____
|

```

END DECLARE SECTION

```

>> ___ END DECLARE SECTION _____ ><

```

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 __ |__>
|__connection-information-item-name__|
```

condition-information-item-name:

```
> __ CATALOG_NAME _____>
|_CONDITION_NUMBER_____|
|_CURSOR_NAME_____|
|_DB2_ERROR_CODE1_____|
|_DB2_ERROR_CODE2_____|
|_DB2_ERROR_CODE3_____|
|_DB2_ERROR_CODE4_____|
|_DB2_INTERNAL_ERROR_POINTER_|
|_DB2_LINE_NUMBER_____|
|_DB2_MESSAGE_ID_____|
|_DB2_MODULE_DETECTING_ERROR_|
|_DB2_ORDINAL_TOKEN_n_____|
|_DB2_REASON_CODE_____|
|_DB2_RETURNED_SQLCODE_____|
|_DB2_ROW_NUMBER_____|
|_DB2_SQLERRD_SET_____|
|_DB2_SQLERRD1_____|
|_DB2_SQLERRD2_____|
|_DB2_SQLERRD3_____|
|_DB2_SQLERRD4_____|
|_DB2_SQLERRD5_____|
|_DB2_SQLERRD6_____|
|_DB2_TOKEN_COUNT_____|
|_MESSAGE_TEXT_____|
|_RETURNED_SQLSTATE_____|
|_SERVER_NAME_____|
```

connection-information-item-name:

```
> __ DB2_AUTHENTICATION_TYPE _____>
|_DB2_AUTHORIZATION_ID_____|
|_DB2_CONNECTION_STATE_____|
|_DB2_CONNECTION_STATUS_____|
|_DB2_ENCRYPTION_TYPE_____|
|_DB2_SERVER_CLASS_NAME_____|
|_DB2_PRODUCT_ID_____|
```

combined-information:

```
</_><_ , _____
> __host-variable4__ = __ALL__
__STATEMENT_____ |_____>< |_ _CONDITION__ _
_____ |
|_CONNECTION_| |_host-variable5_|
|_integer_____|
```

GRANT

```
>> __GRANT__ authorization-specification_____>
      <_ , _____> __TO__ authorization-
name_____ | _____>>
|_PUBLIC_____ | |_WITH GRANT OPTION_|
      |_ROLE_role-name_____ |
```

GRANT (collection privileges)

```
>> __GRANT__ CREATE_____ ON__ COLLECTION_____ collection-id_|_____>
      |_PACKADM_| |_IN_| |_*_____ |
      </_><_ , _____> __TO__ authorization-
name__ | _____>< |_PUBLIC_____ |
|_WITH GRANT OPTION_|
      |_ROLE_role-name_____ |
```

GRANT (database privileges)

```
>> __GRANT__ DBADM_____ |__ ON DATABASE_____ database-name_|_____>
      |_DBCTRL_____|
      |_DBMAINT_____|
      |_CREATETAB_____|
      |_CREATETS_____|
      |_DISPLAYDB_____|
      |_DROP_____|
      |_IMAGCOPY_____|
      |_LOAD_____|
      |_RECOVERDB_____|
      |_REORG_____|
      |_REPAIR_____|
      |_STARTDB_____|
      |_STATS_____|
      |_STOPDB_____|
      </_><_ , _____> __TO__ authorization-
name__ | _____>< |_PUBLIC_____ |
|_WITH GRANT OPTION_|
      |_ROLE_role-name_____ |
```

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_____| _____ |
```

```
_____I
| |      |_(integer)_|
|
| |_REAL_____|
|
| |      |PRECISION_|
|
| |_DOUBLE_|_____||
|
| |      |(1)_____
|
|_____CHARACTER_____||_____
```

```
_____I
| | | |_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_|_____||_____
```

```
_____I
| | | |_(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_____
_____|

```

GRANT (package privileges)

```

>> _GRANT _ALL_____ ON _PACKAGE_____ >
      | < , _____ | |_*_____ |
      |_____ BIND _____ |_ |
      |_____ COPY _____ |
      |_____ EXECUTE _____ |
      |_____ RUN _____ |
      |_____ >_____ collection-id. _____ package-

```

```

id _____ | _____ >
                |_* _____ |
                </_><_ , _____ >__TO_____authorization-
name _____ | _____ >> I_PUBLIC _____ |
I_WITHGRANT OPTION_I
                I_ROLE_role-name _____ |

```

GRANT (plan privileges)

```

>>__GRANT _____ BIND _____ |__ON PLAN _____ plan-
name_I _____ | _____ >
                I_EXECUTE_I
                </_><_ , _____ >__TO_____authorization-
name _____ | _____ >> I_PUBLIC _____ |
I_WITH GRANT OPTION_I
                I_ROLE_role-name _____ |

```

GRANT (schema privileges)

```

>>__GRANT _____ ALTERIN _____ |__ON__ SCHEMA _____ schema-name_I _____ >
                I_CREATEIN_I
                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 _____ >
                I_USAGE _____ |
                I_* _____ |
                </_><_ , _____ >__TO_____authorization-
name _____ | _____ >> I_PUBLIC _____ |
I_WITH GRANT OPTION_I
                I_ROLE_role-name _____ |

```

GRANT (system privileges)

```
>> __GRANT_____ACCESSCTRL_____I_____>
|_ARCHIVE_____|
|_BINDADD_____|
|_BINDAGENT_____|
|_BSDS_____|
|_CREATEALIAS_____|
|_CREATEDBA_____|
|_CREATEDBC_____|
|_CREATESG_____|
|_CREATETMTAB_____|
|_CREATE_SECURE_OBJECT_____|
|_DATAACCESS_____|
|_____WITH ACCESSCTRL_____WITH DATAACCESS_____|
|_DBADM_I_____||_____I_|
|_____I_WITHOUT ACCESSCTRL____I_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)

```
>> __GRANT_____ALL_____|_____|_____>
>
|_<_,_____|
|_____ALTER_____I_|
|_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

```
LOCATOR _____ <_ , _____ >> __HOLD
_____ >>> _____ >>>
```

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_____ |
```

```

|          |_WITH__RR_| |_QUERYNO__integer_| |
|          |_RS_| |
|          |_CS_| |
|_multi-row-insert_____|

```

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_)_| | | | |
TIME ZONE_____ | multi-row-insert: >>__VALUES__ __expression_____
_____>
| | | | |_host-variable-array_| _____ |
| | | | |_NULL_____ | _____ |
| | | | |_DEFAULT_____ | _____ |
| | | | |</>_____ | | | | |_(expression_____
|_)_| | | | | |_host-variable-array_| | | | | |_NULL_____ | | | | |_DEFAULT_____ |
>_____>
| _____|
|_FOR__host-variable__ROWS_| _____|
|_integer-constant_| _____|
|_ATOMIC_____|

```

```
> | _____ | _____ >< |
|
|_NOT ATOMIC CONTINUE ON SQLEXCEPTION_____|
```

LABEL

```
>> __ LABEL ON __ TABLE __ table-name _____ IS string-
constant _____ >< | | | _____ | _____ |
| | ALIAS __ alias-name _____ | |
| | COLUMN __ table-name.column-name _____ | |
| | _____ | _____ |
| | _____ | _____ |
| | _____ | _____ |
| | _____ | _____ |
| table-name ( _____ column-name _____ IS _____ string-constant _____ ) _____ |
| view-name _____ |
```

LOCK TABLE

```
>> __ LOCK TABLE __ table-name _____ >
| PARTITION __ integer _____ |
> __ IN _____ SHARE _____ MODE _____ ><
| EXCLUSIVE _____ |
```

MERGE

```
>> __ MERGE INTO _____ table-name _____ >
| view-name _____ | | _____ |
| correlation-clause _____ |
> _____ >
| include-columns _____ |
> __ USING table-reference ON search-condition _____ >
| source-values _____ |
< _____ ELSE IGNORE _____
> __ WHEN matching-condition THEN modification-operation _____ >
> _____ ><
| NOT ATOMIC CONTINUE ON SQL EXCEPTION _____ | | QUERYNO _____ integer _____ |
```

include-column:

```
< _____ > __ INCLUDE ( _____ column-name _____ data-
type _____ ) _____ >< correlation-clause:
```

```

> _____>>
| _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_| |

```

```

| | |__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_____|

```

source-table:

```

      _AS_ <,_
>>_(VALUES__values-single-row____)|_|correlation-name_(column-name_|_)><
|_values-multiple-row_| values-single-row:
>>__expression_____><
| |_NULL_____|      |
| | <,_ | |__(expression_____|_) | |_NULL_____|
values-multiple-row: >>__expression_____FOR__host-
variable_____ROWS____>< | |_host-variable-array_|      |
|_integer-constant_|
| |_NULL_____|      |
| | <,_ | |__(expression_____|_) |
|_NULL_____| | |_host-variable-array_| matching-condition:
>>_____MATCHED_____><

```


attribute-string:

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

returnability:

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

REFRESH TABLE

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

RELEASE

```
>> __RELEASE__ location-
name _____ >< | __host-variable_ |
| __CURRENT_____ |
| _____SQL_____ |
| __ALL_ | _____ | _____ |
```


RELEASE SAVEPOINT

```
>> __RELEASE__ |__TO__ |__SAVEPOINT__ svpt-  
name_____><
```

RELEASE (connection)

```
>> __RELEASE__ |location-name_|  
_____>< |host-variable_|  
|_CURRENT_|  
|_SQL_|  
|_ALL_|_|
```

RENAME

```
>> __RENAME__ |__TABLE__ |__source-table-name__ TO__ new-table-identifier____><  
|_INDEX__ source-table-name__ TO__ new-index-identifier__ |
```

REVOKE

```
>> __REVOKE__ authorization-specfication_____>  
|_PUBLIC_|  
|_ROLE-role-name_|  
>  
|_BY__ authorization-name_|_|  
|_ALL_|_|> __INCLUDING DEPENDENT  
PRIVILEGES_____>< |_NOT INCLUDING  
DEPENDENT PRIVILEGES_| |_RESPECT_|
```

REVOKE (collection privileges)

```
>> __REVOKE__ CREATE_____ IN_____ COLLECTION_____ collection-  
id_|_|  
|_PACKADM_| |_ON_| |_*_|  
</_>< _____> __FROM_____ authorization-  
name_|_|  
|_PUBLIC_|  
|_ROLE-role-name_|
```

```

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

```

REVOKE (database privileges)

```

>> __REVOKE_____DBADM_____ |__ON DATABASE_____database-name_|_____>
      |_DBCTRL_____ |
      |_DBMAINT_____ |
      |_CREATETAB_____ |
      |_CREATETS_____ |
      |_DISPLAYDB_____ |
      |_DROP_____ |
      |_IMAGCOPY_____ |
      |_LOAD_____ |
      |_RECOVERDB_____ |
      |_REORG_____ |
      |_REPAIR_____ |
      |_STARTDB_____ |
      |_STATS_____ |
      |_STOPDB_____ |
      </_><_ , _____ >__FROM_____authorization-
name_|_____>
      |_PUBLIC_____ |
      |_ROLE-role-name_____ |

```

```

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

```

REVOKE (function or procedure privileges)

```

>> __REVOKE__ EXECUTE__ ON_____>
      <_ , _____
> _____FUNCTION__ function-name_____ |_____>
  |          |          | </_><_ , _____ |          | | |
  |          |          |_((_____|_))_|          | |
  |          |          |_parameter-type_|          | |
  |          |_*_____ | |

```

```

|
| _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_|_____I_|
|
|          __ (1) _____
|
|_____CHARACTER_____I_____I_____
|_____I_____
| | | | _CHAR_____I |_(integer)_____I | | _CCSID_ASCII_____I
|_FOR_SBCS_DATA_| | |
| | | _CHARACTER_VARYING__(integer)____I | _EBCDIC_____I
|_MIXED_| | |
| | | | _CHAR_____I | | | | _UNICODE_____I
| | |
| | | _VARCHAR_____I
| | |
| | |          __ (1M) _____
| | |
| | |_____CHARACTER_____LARGE OBJECT_____
| | |_____I_____I_____
| | | | | _CHAR_____I | | | |_(integer)____I | | _CCSID_ASCII_____I
|_FOR_SBCS_DATA_| | | |
| | | | _CLOB_____I | | | | _EBCDIC_____I
|_MIXED_| | | |
| | | |          __ (1) _____I | | | | _UNICODE_____I
| | | |
| | | | _GRAPHIC_____I | | | |_____
| | | |_____I_____
| | | | | | | | _(__integer)____I | | | | | _CCSID_ASCII_____I
| | | | |
| | | | | _VARGRAPHIC__(integer)_____I | | | | | _EBCDIC_____I
| | | | |
| | | | |          __ (1M) _____I | | | | | _UNICODE_____I
| | | | | | | | | | | | |
| | | | | _DBCLOB_____I | | | | |
| | | | | |
| | | | | | | | _ (integer) _____I | | | | |
| | | | | |
| | | | | | | |          __ (1) _____
| | | | | |
| | | | | | | | _BINARY_____I | | | | |_____
| | | | | | | |_____I_____
| | | | | | | | | | _ (integer) _____I | | | | |
| | | | | |
| | | | | | | | _BINARY VARYING_(integer)_____I | | | | |
| | | | | |
| | | | | | | | _VARBINARY_____I | | | | |

```



```

>
| </_><_ , _____ | | BY _____ authorization-name |__|
|_ ALL _____ | | ROLE-role-name _____ | >__ INCLUDING DEPENDENT
PRIVILEGES _____ >< |_ NOT INCLUDING DEPENDENT
PRIVILEGES __|

```

REVOKE (plan privileges)

```

>>__ REVOKE _____ <_ , _____ <_ , _____
      BIND _____ |__ ON PLAN _____ plan-name_| _____ >
      |_ EXECUTE_|
      </_><_ , _____ >__ FROM _____ authorization-
name_| _____ >
      |_ PUBLIC _____ |
      |_ ROLE-role-name _____ |
>
| </_><_ , _____ | | BY _____ authorization-name |__|
|_ ALL _____ | | ROLE-role-name _____ | >__ INCLUDING
DEPENDENT PRIVILEGES _____ >
|_ NOT INCLUDING DEPENDENT PRIVILEGES __|

```

</_>

REVOKE (schema privileges)

```

>>__ REVOKE _____ <_ , _____ <_ , _____
      ALTERIN _____ |__ ON _____ SCHEMA _____ schema-name_| _____ >
      |_ CREATEIN_| _____ |_ * _____ |
      |_ DROPIN _____ |
      </_><_ , _____ >__ FROM _____ authorization-
name_| _____ >
      |_ PUBLIC _____ |
      |_ ROLE-role-name _____ |
>
| </_><_ , _____ | | BY _____ authorization-name |__|
|_ ALL _____ | | ROLE-role-name _____ | >__ INCLUDING DEPENDENT
PRIVILEGES _____ >< |_ NOT INCLUDING
DEPENDENT PRIVILEGES __|

```

REVOKE (sequence privileges)

```
>> __REVOKE__ <_ , _____>
      ALTER _____ |__ ON__ SEQUENCE _____ schema-name_ | _____>
      | USAGE _____ |
      </_><_ , _____> > FROM _____ authorization-
name_ | _____>
      | PUBLIC _____ |
      | ROLE-role-name _____ | _____ RESTRICT_
> _____ | _____ | _____>
      | </_><_ , _____ | | BY _____ authorization-name_ | _____ |
| ALL _____ | | ROLE_role-name _____ | > INCLUDING DEPENDENT
PRIVILEGES _____>< | NOT INCLUDING
DEPENDENT PRIVILEGES_ |
```

REVOKE (system privileges)

```
>> __REVOKE__ <_ , _____>
      ACCESSCTRL _____ | _____ FROM authorization-name_ | _____>
      | ARCHIVE _____ | _____ | PUBLIC _____ |
      | BINDADD _____ | _____ | ROLE_role-name _____ |
      | BINDAGENT _____ |
      | BSDS _____ |
      | CREATEALIAS _____ |
      | CREATEDBA _____ |
      | CREATEDBC _____ |
      | CREATSG _____ |
      | CREATETMTAB _____ |
      | CREATE_SECURE_OBJECT_ |
      | DATAACCESS _____ |
      | DBADAM _____ |
      | DEBUGSESSION _____ |
      | DISPLAY _____ |
      | EXPLAIN _____ |
      | MONITOR1 _____ |
      | MONITOR2 _____ |
      | RECOVER _____ |
      | SQLADM _____ |
      | STOPALL _____ |
      | STOSPACE _____ |
      | SYSADM _____ |
      | SYSCTRL _____ |
      | SYSOPR _____ |
      | TRACE _____ |
> _____>
```

```

| </_><_ , _____ | | _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 =            |            |            >
| |_CURRENT            | | |
| |            |_LOCALE_ | |
| |_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_____ | | |
| | _____ | |
| | _____ | |
|_(<_, _____<_, _____) |
|_(<_, _____) = ___(_____expression___ | _____) | |
| | _____ | |
| | _____ | |
|_row-fullselect_____ |
|_UNPACK function invoc._____|
```

VALUES

```
>> __VALUES__ expression_____><
| <_, _____ |
| _____ |_(<_, _____) |
```

VALUES INTO

```
>> __VALUES__ CURRENT PACKAGESET _____ INTO __target-variable_____><
| |_CURRENT PACKAGE PATH_| | |
| |_CURRENT SERVER_____ | |
| | _____ | _____ |
|_(<_, _____<_, _____) | _____ | |_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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