





```
>> __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)_____|
|_____ |
|_____><
|_order-by-clause_| |_offset-clause_| |_fetch-clause_| values-clause:
>__VALUES__sequence-reference_____><
| <_,_____ | |_(sequence-reference_____|_| select-
statement: >__
|_____>
|_WITH__common-table-expression_|
>__fullselect_____ |_____>
|_____ |
|_____ |
|_____ |
|_____ |
|_____ |
|_____ |
|_SKIP LOCKED DATA_____|

```

common-table-expression:

```
> __table-identifier_____ AS_(fullselect)_____>
| <_,_____ | |_(_____|_)_|
|_column-name_| read-only-clause:
>> __FOR_READ_ONLY_____>>
update-clause:
|_____ >> __FOR UPDATE OF_____column-
name_|_____>> optimize-for-clause:
>> __OPTIMIZE FOR_____integer_____ROWS_____>>
|_ROW_| isolation-clause:
>> __WITH_____CS_____>>
|_UR_____ | |_RR_____ | | |_lock-
clause_| | |_RS_____ | |_lock-clause_| lock-clause: >_USE
AND KEEP_____EXCLUSIVE_____LOCKS_____>>
|_UPDATE_____ | |_SHARE_____ | queryno-clause:
>> __QUERYNO_____integer_____>>
SKIP LOCKED DATA: >> __SKIP LOCKED
DATA_____>>
```

## STATEMENTS

### ALLOCATE CURSOR

```
>> __ALLOCATE__ cursor-name CURSOR FOR RESULT SET __rs-locator-variable_____>
```

### ALTER DATABASE

```
<_____>> __ALTER DATABASE__ database-
name_____BUFFERPOOL__bpname_____|____>
|_INDEXBP_bpname_____|
|_STOGROUP__stogroup-name_|
|_CCSID__ccsid-value_____|
</_____>
```

### ALTER FUNCTION (external)

```
>> __ALTER__ FUNCTION__ function-name_____>
|_____ | <_,_____ | | |
|_(_____)_| | | |_parameter-type_| | |_SPECIFIC
FUNCTION__specific-name_____ | >_option-
list_____>> parameter-
type: >> __data-
type_____>> |_AS
LOCATOR__| data-type: >> __built-in-data-
type_____>> |_distinct-type-
name_| built-in-data-type
```

```

> _SMALLINT_____
_____>< | | _INTEGER_ | | | | |INT_ | | | | |_BIGINT_ | | |
_____ (5,0) _____ |
| _DECIMAL_ | _____ | _____
_____ | | _DEC_ | | ( _integer_ ) _____ | |
| | _NUMERIC_ | | ,integer_ | | | _ (34)_ | | _DECFLOAT_
| _____ |
| | | _ (16)_ | | | _ (53)_ _____ |
| _FLOAT_ | _____ | _____
_____ | | | | ( _integer_ ) | | | | _REAL_ _____ | | | |
| _PRECISION_ | | | | _DOUBLE_ | _____ | | | | _ (1)_ _____ | |
| _____ _CHARACTER_ | _____ | _____
_____ | | | | | _CHAR_ _____ | | ( _length_ ) _____ | | | _CCSID_ _ASCII_ |
| _FOR_ _SCBS_ _DATA_ | | | | | | | _CHARACTER_ _VARYING_ ( _length_ ) _____ |
| _EBCDIC_ | | _MIXED_ | | | | | | | _CHAR_ _____ | | | _UNICODE_ | | _BIT_ | | | | |
| _VARCHAR_ _____ | | | | | _ (1M)_ _____ | | | | | _____ _CHARACTER_ _LARGE
OBJECT_ | _____ | _____ | | | | |
| _CHAR_ _____ | | ( _integer_ ) _____ | | _CCSID_ _ASCII_ | | _FOR_ _SBCS_ _DATA_ | | |
| _CLOB_ _____ | | _EBCDIC_ | | _MIXED_ | | | _ (1)_ _____
| _UNICODE_ | |
| _GRAPHIC_ | _____ | _____
_____ | | | | ( _integer_ ) _____ | | | _CCSID_ _ASCII_ | | | |
| _VARGRAPHIC_ ( _integer_ ) _____ | | _EBCDIC_ | | | | | | | | |
| _ (1M)_ _____ | | _UNICODE_ | | | | | _DBCLOB_ | _____ | | |
| (integer) _____ | | | _ (1)_ _____ | |
| _BINARY_ | _____ | _____
_____ | | | | (integer) _____ | | | | | _BINARY VARYING
_ (integer) _____ | | | | | _VARBINARY_ _____ | | | | |
| _ (1M)_ _____ | | | | | _BINARY LARGE
OBJECT_ _____ | _____ | _____ | | | | | _BLOB_ _____ |
| ( _integer_ ) _____ | | | | | _K_ | | | | | _M_ | | | | | _G_ | |
| _DATE_ _____
_____ | | | | _TIME_ _____ | | | | | _ (6)_ _____ _WITHOUT TIME ZONE_ | |
| _TIMESTAMP_ | _____ | _____ | _____ | _____
_____ | | | | (integer) _____ | | | | _WITH TIME ZONE_ _____ | |
| _ROWID_ _____
_____ | options-list >> _EXTERNAL_NAME_ _external-program name_
| _LANGUAGE_ _ASSEMBLE_ _____ >
_____ | _identifier_ _____ | _____ | _C_ _____ |
| _COBOL_ _____ |
| _JAVA_ _____ |
| _PLI_ _____ |
> _PARAMETER STYLE_ _____ _SQL_ _____ _NOT DETERMINISTIC_ _____ >
_____ | _JAVA_ _____ | | _DETERMINISTIC_ _____ |
> _RETURNS NULL ON NULL INPUT_ _____ _MODIFIES SQL_ _____ >
| _CALLED ON NULL INPUT_ _____ | _____ | _READS SQL DATA_ _____ |
| _____ | _____ | _CONTAINS SQL DATA_ _____ |

```

```

                                I_NO SQL_____I
> __ NO EXTERNAL ACTION__ __ NO SCRATCHPAD_____>
  I_EXTERNAL ACTION____I  I_SCRATCHPAD_____length__I
> __ PACKAGE PATH package path_____>
  I_NO PACKAGEPATH_____I
> __ NO FINAL CALL__ __ ALLOW PARALLEL_____ __ NO DBINFO____>
  I_FINAL CALL____I  I_DISALLOW PARALLEL_I  I_DBINFO____I
> __ CARDINALITY__integer_____ __ NO COLLID_____>
                                I_COLLID__collection-id_I
> __ WLM ENVIRONMENT__ __ name_____>
                                I_( __name__ ,*_ )_I
> __ ASUTIME__ __ NO LIMIT_____ __ STAY RESIDENT__ __ NO_____>
                                I_LIMIT__integer_I  I_YES_I
> __ PROGRAM TYPE__ __ SUB__ __ SECURITY__ __ DB2_____>
                                I_MAIN_I  I_USER____I
                                I_DEFINER_I
> __ STOP AFTER SYSTEM DEFAULT FAILURES_____>
  I_STOP AFTER-integer-FAILURES_____I
  I_CONTINUE AFTER FAILURE_____I
> __ RUN OPTIONS__run-time-options_____>
> __ INHERIT SPECIAL REGISTERS__ __ STATIC DISPATCH __ SECURED_____><
I_DEFAULT SPECIAL REGISTERS_I  I_NOT SECURED_I external-java-routine-name: >__
_____method-name_____>
  I_jar-name:_I  I_method-signature_I
jar-name:
> _____jar-id_____>
  I_schema-name._I

```

method-name:

```

<_____> _____ I_class-id__ __.____
method-id_____>
  I_package-id__ __.____ __I  I!____I
  I/_____I

```

method-signature:

```

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

```

## ALTER FUNCTION(compiled SQL scalar)

```

> __ ALTER__ function-designator_____>
  __ALTER__ __ ACTIVE VERSION_____
<_____> __I_____I__I_____options-
list_I_____>

```

```

|          |_ALL VERSIONS_____ | |
|          |_VERSION routine-version-id_|
|          |_ACTIVE VERSION_____ |
|_REPLACE_|_____ |_routine-specification_|
|          |_VERSION_routine_version_id_|
|_ADD VERSION_routin-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_____ >
|          |          |          |          |          |
|          |          |          |          |          |
|          |          |          |          |          |
|_SPECIFIC FUNCTION__specific-name_____ |

```

routine-specification:

```

> _____ <_____ >
|_ RETURNS_data_type2_____ |_ >
|_ </_><_ ,_____ |_options-list_|_parameter-
name_data-type_|_ >_SQL-routine-
body_____ >< data-type, data-
type2: >>_____built-in-data-
type_____ >< |_distinct-type-name_|
|_array-type-name_____|_built-in-data-type:
>_SMALLINT_____
_____ >< |_INTEGER_|_INT_|_BIGINT_|_
_____(5,0)_____ |
|_DECIMAL_|_____ |
_____ |_DEC_____|_(__integer_____)_____|_
|_NUMERIC_|_ , integer_|_ (34)_ |_DECFLOAT_
|_____ |
|_ (16)_ |_ (53)_____ |
|_FLOAT_|_____ |
_____ |_ (__integer_)_|_REAL_____ |_
PRECISION_|_ |_DOUBLE_|_ (1)_____ |
|_CHARACTER_|_____ |
_____ |_CHAR_____|_ (length_)_____|_CCSID_ASCII_____|
|_FOR_SBCS__DATA_|_ |_CHARACTER_VARYING__(length_)_|
|_EBCDIC_|_MIXED_|_ |_CHAR_____|_UNICODE_|_BIT_____|_
|_VARCHAR_____ |_ (1M)_____ |_CHARACTER__LARGE
OBJECT_|_ |_
|_CHAR_____|_ (__integer_)_|_CCSID_ASCII_____|_FOR_SBCS__DATA_|_

```



```

I __CLOB_____ | | _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

```









# 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__
```

```

routine-specification _____ | | _ACTIVATE VERSION_ routine-version-
id _____ | | _ACTIVE VERSION _____ |
| _REGENERATE_ | _____ | _____ | |
| _VERSION-routine-version-id_ | | | _DROP VERSION_ routine-version-
id _____ | routine-specification:
> _____ SQL-routine-body_>
| _____ | | _option-list_ |
|_( _____ )_|
|< _____ , _____ | | _parameter-declaration | | parameter-
declaration: __IN__ >_| _____ | _parameter-name__ data-
type _____ >
| _OUT__ |
| _INOUT_ |

```

data-type:

```

>> __built-in-data-type _____ >>
| _distinct-type-name_ | | _array-type-name__ | built-in-data-type:
> __SMALLINT _____
_____ >< | | _INTEGER_ | | | | _INT_ | | | | | _BIGINT_ | | |
_____ (5,0) _____ |
| _DECIMAL_ | _____ | _____
_____ | | | _DEC_ | | |_( _integer _____ ) _____ | |
| | | _NUMERIC_ | | | , integer_ | | | _ (34)_ | | | _DECFLOAT_
| _____ |
_____ | | | _ (16)_ | | | _ (53)_ _____ |
| _FLOAT_ | _____ | _____
_____ | | | |_( _integer_ )_| | | | | _REAL_ _____ | | | |
| _PRECISION_ | | | | | _DOUBLE_ | _____ | | | | | _ (1)_ _____ |
| _____ _CHARACTER_ _____ | _____
_____ | | | | | _CHAR_ _____ | | |_( _length_ ) _____ | | | | _CCSID_ _ASCII_ |
| _FOR_ _SBCS_ _____ _DATA_ | | | | | | | _CHARACTER_ _VARYING_ ( _length_ )_|
| _EBCDIC_ | | | _MIXED_ | | | | | | | | _CHAR_ _____ | | | | _UNICODE_ | | | | |
| _VARCHAR_ _____ | | | | | | | _ (1M)_ _____ | | | | | _____ _CHARACTER_ _____ _LARGE
OBJECT_ | _____ | _____ | | | | |
| _CHAR_ _____ | | |_( _integer_ )_| | | | | _CCSID_ _ASCII_ _____ | | | _FOR_ _SBCS_ _____ _DATA_ | | |
| _CLOB_ _____ | | | _EBCDIC_ | | | _MIXED_ | | |
_____ (1) _____ | | | _UNICODE_ | | |
| _GRAPHIC_ | _____ | _____
_____ | | | | |_( _integer_ ) _____ | | | | | _CCSID_ _ASCII_ _____ | | | |
| _VARGRAPHIC_ ( _integer_ ) _____ | | | _EBCDIC_ | | | | |
_____ (1M) _____ | | | | | _UNICODE_ | | | | | _DBCLOB_ | _____ | | | |
| (integer) _____ | | | | | _ (1M)_ _____ | | |
| _BINARY_ | _____ | _____
_____ | | | | |_(integer)_ _____ | | | | | | | _BINARY VARYING
_____ (integer) _____ | | | | | | | | | _VARBINARY_ _____ | | | | |
| _____ (1M) _____ | | | | | | | | | _BINARY LARGE
OBJECT _____ | _____ | _____ | | |

```

```

I_BLOB_____ | |_(integer_____)____ | | | |K_| | | |M_|
| | |G_| |
| DATE_____
_____ | | |TIME_____ | | | |__(6_)____ _WITHOUT TIME ZONE_| |
I_TIMESTAMP_|_____|_____|_____|_____|
_____ | | |(integer)_| | _WITH TIME ZONE_____| |
I_XML_____
_____ | option-list: >____NOT
DETERMINISTIC_____>
    I_DETERMINISTIC_____ |          I_DYNAMIC RESULT SETS integer_|
>____READS SQL
DATA_____>
    I_CONTAINS SQL_____ |          I_CALLED ON NULL INPUT_|
    I_MODIFIES SQL DATA_|
>____STATIC DISPATCH_____ALLOW
PARALLEL_____>
          I_DISALLOW PARALLEL_|
>__DISALLOW DEBUG MODE_____PARAMETER CCSID ASCII____QUALIFIER schema-
name____>
    I_ALLOW DEBUG MODE_____| | _PARAMETER CCSID EBCDIC_|
    I_DISABLE DEBUG MODE__| | _PARAMETER CCSID UNICDOE_|
>__PACKAGE OWNER__auth-name_____ASUTIME_NO_LIMIT_____COMMIT ON RETURN
YES____>
          I_ASUTIME_LIMIT__int_| | _COMMIT ON RETURN NO_|
          I_AUTONOMOUS_____ |
>__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_____ |
>_____DEGREE
1_____>
    I_DEFER PREPARE_____| | _IDEGREE ANY 1_|
    I_NODEFER PREPARE_|
>____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_|

```

```

      <_ , _____ >_SQL PATH__schema-name| _____REOPT
NONE _____ VALIDATE RUN _____>
      I_SCHEMA PATH__| I_REOPT ALWAYS_| I_VALIDATE BIND_|
      I_SESSION USER_| I_REOPT ONCE__|
      I_USER_|

```

>

->

```

I_ROUNDING DEC_ROUND_CEILING__| I_DATE FORMAT ISO__|
I_ROUNDING DEC_ROUND_DOWN_____| I_DATE FORMAT EUR__|
I_ROUNDING DEC_ROUND_FLOOR_____| I_DATE FORMAT USA__|
I_ROUNDING DEC_ROUND_HALF_DOWN_| I_DATE FORMAT JIS__|
I_ROUNDING DEC_ROUND_HALF_EVEN_| I_DATE FORMAT LOCAL_|
I_ROUNDING DEC_ROUND_HALF_UP__|
I_ROUNDING DEC_ROUND_UP_____|

```

> \_\_\_\_\_ FOR UPDATE CLAUSE

REQUIRED \_\_\_\_\_>

```

I_DECIMAL(15)____| I_FOR UPDATE CLAUSE OPTIONAL_|
I_DECIMAL(31)____|
I_DECIMAL(15,s)_|
I_DECIMAL(31,s)_|

```

>

->

```

I_TIME FORMAT ISO__|
I_TIME FORMAT EUR__|
I_TIME FORMAT USA__|
I_TIME FORMAT JIS__|
I_TIME FORMAT LOCAL_|

```

>

```

| ______YES_| | ______YES_|
I_SYSTIMESENSITIVE( I_NO_| )_| I_BUSTIMESENSITIVE( I_NO_| )_|

```

>

```

| ______YES_| | ______|
I_ARCHIVESENSITIVE( I_NO_| )_| I_APPLCOMPAT( __level__ )_|

```

>

```

I_CONCENTRATE STATEMENTS OFF _____|
I_CONCENTRATE STATEMENTS WITH LITERALS_|

```

><

## ALTER SEQUENCE

```
>> __ALTER SEQUENCE __sequence-name_____ >
    <_____ > __ _RESTART__
_____ | _____ >< |
| _WITH__ numeric-constant_ | |
|   _INCREMENT BY__ numeric-constant_____ |
|   _NO MINVALUE_____ |
| | _MINVALUE__ numeric-constant_ | |
|   _NO MAXVALUE_____ |
| | _MAXVALUE__ numeric-constant_ | |
|   _NO CYCLE_____ |
| | _CYCLE_____ | |
|   _NO CACHE_____ |
| | _CACHE__ integer-constant_ | |
|   _NO ORDER_____ |
|   _ORDER_____ |
```

## ALTER STOGROUP

```
>> __ALTER STOGROUP __stogroup-name_____ >
    <_____ <_,_____ | >_____ ADD
VOLUMES(____ volume-id | _____) >< |
| <_,____ | | | |
|           | _____ | |
|           | _____ | |
|           | _____ | |
| _REMOVE VOLUMES(____ volume-id | _____) |
|           | <_,____ | | _____ |
> _____ >
| _DATACLAS__ dc-name_ | | _MGMTCLAS__ mc-name_ | | _STORCLAS__ sc-name_ |
</_____ >
```

## ALTER TABLE

```
>> __ALTER TABLE __table-name_____ >
    <_____ _COLUMN_
> _____ ADD_ | _____ | _____ _COLUMN_ _____ >
|           | _____ | _____ |
| _ALTER_ | _____ | _____ |
| _RENAME COLUMN source-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___|

```

partition-element:

```

      _AT_      </_><_ , _____ INCLUSIVE_ >>_
ENDING_ |_____| (____constant_|_) |_____ |_____ >< |
|_MAXVALUE_|
|
|_____ |_MINVALUE_|
|_HASH SPACE_integer_ |K_____ |
|_M_|
|_G_|

```

partition-clause:

```

      _AT_      <_ , _____ INCLUSIVE_ >>_
ENDING_ |_____| (____constant_|_) |_____ |_____ >< |
|_MAXVALUE_|
|
|_____ |_MINVALUE_|
|_HASH SPACE_integer_ |K_____ |
|_M_|
|_G_|

```

partition-rotation:

```

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

```

extra-row-option:

```

>>_ON DELETE ADD EXTRA ROW_____ ><

```

```

materialized-query-definition: >>_ (____fullselect_) refreshable-table-
options_____ >

```

refreshable-table-options:

```

>>_DATA INITIALLY DEFERRED_ REFRESH DEFERRED_____ >
<_____ >_____

```

```

_____ |_____ >< |
|_MAINTAINED BY SYSTEM_ |

```

```

|_|_____ |_____ |

```

```

| |_MAINTAINED BY USER_ | |

```

```

| _ENABLE QUERY OPTIMIZATION_ |

```

```

|_|_____ |_____ |

```

```

|_DISABLE QUERY OPTIMIZATION_|

```

materialized-query-table-alteration:

```

<_____ >>_SET_____ MAINTAINED BY
SYSTEM_____ |_____ >

```

```

| |_MAINTAINED BY USER_ | |

```

```

| _ENABLE_QUERY OPTIMIZATION_ |

```

```

|_DISABLE_QUERY OPTIMIZATION_|

```





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
```









```

|_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_
|_____|

```





## 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-
```



\_\_\_\_\_ | 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

```

```

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

```

## CREATE FUNCTION (external scalar)

```

>>_CREATE FUNCTION_ function-name_ ( _____ )_>
    |  <_, _____  |
|_parameter_declaration_|>_RETURNS_ data-
type2_____ option-list_____><| |_AS LOCATOR_____| |
|_data-type3_ CAST FROM_ data-type4_____| |_AS LOCATOR___|
parameter-declaration: >>_data-
type_____><| |_AS
LOCATOR___| | |_TABLE LIKE_ table-name___ AS LOCATOR_| |_view-name_|
data-type: >>_built-in-data-
type_____><| |_distinct-type-name_|
built-in-data-type:
>_SMALLINT_____
_____><| |_INTEGER_| | | |_INT_| | | | |_BIGINT_| | | |
_____(5,0)_____|
|_DECIMAL_| _____|
_____||_DEC_____| |_(integer_____)| | |
||_NUMERIC_| | |_, integer_| | | |(34)_ | |_DECFLOAT_
|_____|
_____| | |(16)_| | | |(53)_____| |
|_FLOAT_| _____|
_____|| | | |_(integer_)_| | | |_REAL_____|| | | |
|_PRECISION_| | | |_DOUBLE_| _____| | | | |(1)_____| |
|_____CHARACTER_____| _____|
_____|| | | |_CHAR_____| | |(length_)_____| | | |_CCSID_ASCII___|
|_FOR_SBCS_ DATA_| | | | | | |_CHARACTER_VARYING_ (length_)_|
|_EBCDIC_| |_MIXED_| | | | | | |_CHAR_____| | | |_UNICODE_| | | | |
|_VARCHAR_____|| | | | |(1M)_____| | | | | |_CHARACTER___LARGE
OBJECT_| | _____| | | | |
|_CHAR_____|| |(integer_)_| | |_CCSID_ASCII___| |_FOR_SBCS_ DATA_| | | |
|_CLOB_____|| |_EBCDIC_| |_MIXED_| | | | |(1)_____
|_UNICODE_| | |
|_GRAPHIC_| _____|
_____|| | | |_(integer_)_____| | | |_CCSID_ASCII___| | | |
|_VARGRAPHIC_ (integer_)_____| | |_EBCDIC___| | | | |
_(1M)_____| |_UNICODE_| | | | |_DBCLOB_| _____| | | |
| (integer)_____| | | |(1)_____| | | |
|_BINARY_| _____|
_____|| | | |_(integer)_____| | | | | |_BINARY VARYING
_(integer)_____| | | | | |_VARBINARY_____| | | | | |
_(1M)_____|| | | | |_BINARY LARGE

```

```

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_method-signature_I
jar-name
I_____jar-id_____I
I_schema-name._____I
method-name
<_____
I_____I_class-id_____I_method-id_____I
I_package-id_____._____I_____I!_____I
I_/_____I
method-signature
I_____I
I_(_____)_I
I <_,_____I
I_____java-datatypeI_____I

```

## CREATE FUNCTION(external table)

```

>> __CREATE FUNCTION__function-name_____>
> __(_______)_____>
    I <_,_____I
    I_____parameter-declaration_I_____I
    <_,_____
> __RETURNS TABLE__(__column-name data-type_____I)_option-list_>< I
I_AS LOCATOR_I I I_GENERIC TABLE_____I parameter-
declaration: >>_____parameter-
type_____>< I_parameter-name_I parameter-type:
>>__data-type_____>< I
I_AS LOCATOR_____I I I_TABLE LIKE__table-name__AS LOCATOR_I I_view-name_I
data-type: >>_____built-in-data-
type_____>< I_distinct-type-name_I
built-in-data-type:
> __SMALLINT_____
_____>< I I_INTEGER_I I I I_INT_I I I I I_BIGINT_____I I I
_____ (5,0)_____I

```





```

> _____>
  |_SPECIFIC_specific-name_| |_PARAMETER CCSID__ _ASCII_____|
                                     |_EBCDIC_____|
                                     |_UNICODE_____|
> _SOURCE_ _function-name_____><
|_SPECIFIC_specific-name_____|
  |_function-name__(_____)_|
                                     |<_,_____| |__parameter-type_|_|
parameter-declaration: >>_____parameter-
type_____>< |_parameter-name_| parameter-type:
>>__ _data-type_____>< |
|_AS LOCATOR_____| | |_TABLE LIKE__ _table-name_ ___AS LOCATOR_| |_view-
name_| data-type: >>___built-in-data-
type_____>< |_distinct-type-name_|
built-in-data-type:
> _SMALLINT_____
_____>< | |_INTEGER_|
|
| | _INT_| |
|
| |_BIGINT_____|
|
| _____(5,0)_____
|
|_DECIMAL_____| |_____|
|_____|
| |_DEC_____| | |_(integer_____)_|
|
| |_NUMERIC_| | _____, integer_|
|
| _____(34)_____
|
|_DECFLOAT_
|_____|
|_____|
| | _____(16)_____|
|
| _____(53)_____
|
|_FLOAT_____| |_____|
|_____|
| | _____(integer_____)_|
|
| |_REAL_____|
|
| | _____PRECISION_____|
|

```

```

| | _DOUBLE_ | _____ | |
|
|          |(1)_____
|
| _____ CHARACTER _____ | _____
| _____ |
| | | | _CHAR _____ | |_(length_)_____ | | | _CCSID_ ASCII _____ | |
| | _FOR_ SBCS _____ DATA_ | |
| | | | _____ CHARACTER _____ VARYING _____(length_)_____ | | | _EBCDIC_ | | | _MIXED_ |
| | |
| | | | | _CHAR _____ | | | | | _UNICODE_ |
| | |
| | | | _VARCHAR _____ |
| | |
| | |          |(1M)_____
| | |
| | | _____ CHARACTER _____ LARGE OBJECT _____
| | | _____ | _____ | | | | | | | | | |
| | | | | _CHAR _____ | | | | |_(integer)_____ | | | _CCSID_ ASCII _____ |
| | | | _FOR_ SBCS _____ DATA_ | | |
| | | | | _CLOB _____ | | | | | _EBCDIC_ |
| | | | | _MIXED_ | | |
| | |          |(1)_____ | | | _UNICODE_ |
| | |
| | | _GRAPHIC_ | _____ | _____
| | | _____ | | | | | | | |
| | |          |_(integer)_____ | | | | | _CCSID_ ASCII _____ |
| | |
| | | | | _VARGRAPHIC _____(integer)_____ | | | | | _EBCDIC_ |
| | |
| | |          |(1M)_____ | | | | | _UNICODE_ |
| | |
| | | | | _DBCLOB_ | _____ |
| | |
| | |          |(integer)_____ |
| | |
| | |          |(1)_____
| | |
| | | _BINARY_ | _____ | _____
| | | _____ | | |
| | |          |(integer)_____ |
| | |
| | | | | _BINARY VARYING _____(integer)_____ |
| | |
| | | | | _VARBINARY _____ |
| | |

```







</\_>

# CREATE FUNCTION (SQL Table)

```
> __CREATE FUNCTION__ function-name_ ( _____ )_>
      |           <_ , _____ |
      | _____ |__|
      |           |_parameter-declaration_|
      |           <_ , _____ >_RETURNS TABLE__ (_column-
name__ data-type2_| _____ options-list _____>
>_SQL-routine-body_____>
```

parameter-declaration:

```
>>__parameter-name parameter-type_____>>
parameter-type: >>__data-
type1_____>< |_TABLE
LIKE__ table-name__ AS LOCATOR_| |_view name__| data-type1, data-type2:
>>__built-in-data-type_____>>
|_distinct-type-name_| built-in-data-type:
>_SMALLINT_____
_____>< | |_INTEGER_| | | | |_INT_| | | | |_BIGINT_| | | |
_____(5,0)_____ |
|_DECIMAL_| _____| _____
_____ | | |_DEC_| | |_(integer_____)_____ | |
| |_NUMERIC_| | |, integer_| | |_(34)_ | |_DECFLOAT_|
| _____|
_____| | |_(16)_| | |_(53)_____ |
|_FLOAT_| _____| _____
_____ | | | |_(integer_)_| | | | |_REAL_| _____ | | | |
|_PRECISION_| | | | |_DOUBLE_| _____ | | | |_(1)_____ |
| _____ CHARACTER_____ | _____| _____
_____ | | | | |_CHAR_| _____ | |(length_)_____ | | | |_CCSID_ASCII_| |
|_FOR_SBCS___ DATA_| | | | | |_CHARACTER_VARYING__(length_)_|
|_EBCDIC_| | |_MIXED_| | | | | |_CHAR_| | | | |_UNICODE_| | | | |
|_VARCHAR_| _____ | | | | |_(1M)_____ | | | | |_CHARACTER___ LARGE
OBJECT_| _____ | _____ | | | |
|_CHAR_| _____ | |_(integer_)_| | | | |_CCSID_ASCII_| | |_FOR_SBCS___ DATA_| | |
|_CLOB_| _____ | |_EBCDIC_| | |_MIXED_| | | | |_(1)_____
|_UNICODE_| | |
|_GRAPHIC_| _____ | _____| _____
_____ | | | | |_(integer_)_____ | | | |_CCSID_ASCII_| | | |
|_VARGRAPHIC__(integer_)_____ | | | |_EBCDIC_| | | | |
_____(1M)_____ | | | |_UNICODE_| | | | |_DBCLOB_| _____ | | |
|_(integer)_____ | | | |_(1)_____ | | |
|_BINARY_| _____ | _____| _____| _____|
_____ | | | | |_(integer)_____| | | | | |_BINARY VARYING
```

```

__(integer)_____ | | | | | _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 |
|
| | DECIMAL | | |
| | | | | (5,0) |
|
| | DEC | | | ( integer ) |
|
| | NUMERIC | | | | | integer |
|
| | | | | (34) |
|
| | DECFLOAT | | | |
| | | | |
| | | | |
| | | | | (16) |
|
| | | | | (53) |
|
| | FLOAT | | | |
| | | | |
| | | | | ( integer ) |
|
| | | REAL | | |
|
| | | | | PRECISION | |
|
| | | DOUBLE | | | | |
|
| | | | | (1) |
|
| | | CHARACTER | | | | | | | |
| | | | |
| | | | | CHAR | | | | | CCSID ASCII |
| | | | | FOR SBCS DATA | | |
| | | | | CHARACTER VARYING ( length ) | | | EBCDIC | | MIXED |
| | |
| | | | | CHAR | | | | | UNICODE |
| | |
| | | | | VARCHAR |
| | |
```



```

|
| | 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 | |
> >

```







```

> __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 >
I_NAME 'string' | I_C |
I_identifier | I_COBOL |
| I_JAVA |
| I_PLI |
| I_REXX |
PARAMETER STYLE SQL
> | | >
| PARAMETER STYLE |
| | |
| GENERAL |
| GENERAL WITH NULLS |
| JAVA |
NOT DETERMINISTIC FENCED
> | | | >
I_DETERMINISTIC |
CALLED ON NULL INPUT MODIFIES SQL DATA
> | | | >
| NO SQL |
| CONTAINS SQL |
| READS SQL DATA |
NO PACKAGE PATH
> | | >
I_PACKAGE PATH package-path |
NO DBINFO NO COLLID
> | | | >
I_DBINFO | I_COLLID collection-id |
>
I_WLM ENVIRONMENT name |
| (name, *) |
ASUTIME NO LIMIT STAY RESIDENT NO
> | | | >
I_ASUTIME LIMIT integer | I_STAY RESIDENT YES |
PROGRAM TYPE MAIN SECURITY DB2
> | | | >
I_PROGRAM TYPE SUB | I_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_____|
> |_____|>
      |_VERSION routine ver-id_|
      |_option-list_|

```







```

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_|
|_____|_____|_____|_____|

```

```

| |          _CARDINALITY_ | | |
| |_VOLATILE_____ | _____ | |
| |_LOGGED_____ | _____ | |
|_|_____ | _____ | |
| |_NOT LOGGED_ | _____ | |
|
| |_COMPRESS NO_ | _____ | | |
|_|_____ | _____ | |
| |_COMPRESS YES_ | _____ | |
| |          _NO_ | _____ | |
| |_APPEND_____ |_YES_ | _____ | |
| |_DSSIZE_integer_G | _____ | |
| |_BUFFERPOOL_bpname | _____ | |
| |_MEMBER CLUSTER | _____ | |
| |_TRACKMOD YES_ | _____ | |
|_|_____ | _____ | |
| |_TRACKMOD NO_ | _____ | |
|
|_|_____ | _____ | |
| |_PAGENUM RELATIVE_ | _____ | |
| |_PAGENUM ABSOLUTE_ | _____ | |

```

column-definition:

```

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

```

```

|          |_as-row-transaction-start-id-clause_|
|          |_as-generated-expression-clause_____|
|_references-clause_____|
|_column-constraint_____|
|_FIELDPROC__program-name_____|
|          |<_,_____|
|_(__constant_|_)_|_AS SECURITY
LABEL_____||_IMPLICITY
HIDDEN_____||_INLINE
LENGTH_____| data-type:
>_SMALLINT_____
_____><||_INTEGER_|_|_|_|_INT_|_|_|_|_BIGINT_|_|_|
_____(5,0)_____|
|_DECIMAL_|_____|
_____||_DEC_|_|_(integer_____)_____|
||_NUMERIC_|_|_, integer_|_|_|_(34)_||_DECFLOAT_
|_____|
_____|_|_|_(16)_|_|_|_(53)_____|
|_FLOAT_|_____|
_____||_|_|_|_(integer_)_|_|_|_|_REAL_____||_|_|
|_PRECISION_|_|_|_|_DOUBLE_|_____||_|_|_|_(1)_____|
|_____CHARACTER_|_____|
_____||_|_|_|_|_CHAR_____|_|_(length_)_____|_|_|_|_CCSID__ASCII_|_|
|_FOR_SBCS__DATA_|_|_|_|_|_|_CHARACTER__VARYING__(length_)_|
|_EBCDIC_|_|_MIXED_|_|_|_|_|_|_CHAR_____|_|_|_|_UNICODE_|_|_|_|
|_VARCHAR_____|_|_|_|_|_(1M)_____|_|_|_|_CHARACTER__LARGE
OBJECT_|_____||_|_|_|
|_CHAR_____|_|_(integer_)_|_|_|_|_CCSID__ASCII_|_|_FOR_SBCS__DATA_|_|_|
|_CLOB_____|_|_|_|_EBCDIC_|_|_MIXED_|_|_|_|_(1)_____
|_UNICODE_|_|
|_GRAPHIC_|_____|
_____||_|_|_|_|_(integer_)_____|_|_|_|_CCSID__ASCII_____|_|_|
|_VARGRAPHIC__(integer_)_____|_|_|_|_EBCDIC_|_|_|_|
_____(1M)_____|_|_|_|_UNICODE_|_|_|_|_DBCLOB_|_____||_|_|
|_(integer)_____|_|_|_|_(1)_____|_|_|
|_BINARY_|_____|
_____||_|_|_|_|_(integer)_____|_|_|_|_|_BINARY VARYING
__(integer)_____|_|_|_|_|_VARBINARY_____|_|_|_|_|
_____(1M)_____|_|_|_|_|_BINARY LARGE
OBJECT_____|_|_____||_|_|_|_|_BLOB_____||
|_(integer_____)_____|_|_|_|_|_K_|_|_|_|_|_M_|_|_|_|_|_G_|_|
|_DATE_____
_____||_|_|_|_|_TIME_____|_|_|_|_|_(6_)_____|_|_WITHOUT TIME ZONE_|_|
|_TIMESTAMP_|_____||_____||_____
_____||_|_|_|_|_(integer_)_|_|_|_|_WITH TIME ZONE_____|_|
|_ROWID_____
_____||_|_|_|_|_XML__( XML-type-

```

modifier\_) \_\_\_\_\_ |  
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:

```

        _RANGE_ </_><_ , _____ >> __PARTITION
BY_ | _____ | (_partition-expression_ |_) _____ >
        |_SIZE_ _____ |
        |_EVERY_ integer-constant_ G_ |
</_><_ , _____ > __ (partition-
element_ |_) _____ << partition-
expression: _NULLS LAST_ _ASC_ >> __column-
name_ | _____ | _____ | _____ << |_DESC_ |
partition-element: _AT_
>> __PARTITION_ integer_ ENDING_ | _____ | _____ ( _____ constant_ |_) _____ >
        |_MAXVALUE_ |
        |_MINVALUE_ |
        _____ |_INCLUSIVE_
> __HASH SPACE_ integer_ K _____ | _____ | _____ <<
|_M_ |
        |_G_ |

```

organization-clause:

```

        < _____ _HASH SPACE_ 64M _____ >> __UNIQUE__ (__column-
name_) | _____ | _____ >
        |_HASH SPACE_ integer_ K _____ |
        |_M_ |
        |_G_ |

```

materialized-query-definition:

```

>> __ _____ AS_ (fullselect) _____ >
| _____ </_><_ , _____ | | _____ ( _____ column-name_ |_) | _____ >
_____ << |_

```

```

refreshable-table-options _____ | refreshable-table-options: >> __DATA INITIALLY
DEFERRED_ REFRESH DEFERRED _____ >

```

```

< _____ > _____ << |_
_____|_MAINTAINED BY SYSTEM_ _____ |
|_ | _____ | _____ |
| |_MAINTAINED BY USER_ _____ | _____ |
| _ENABLE QUERY OPTIMIZATION_ _____ | _____ |
|_ | _____ | _____ |
|_ | _____ | _____ |
|_DISABLE QUERY OPTIMIZATION_

```

## CREATE TABLESPACE

```

>> __CREATE _____ TABLESPACE_ table-space-name _____ >
        |_LOB_ | _____ |_DSNDB04_ _____ |
        |_IN_ |_database-name_ | _____ |
< _____ > _____ | _____ |

```



```

>
|_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___I_ CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME_____I

>_DYNAMICRULES RUN_____ WITHOUT IMMEDIATE WRITE_____>
I_DYNAMICRULES BIND_____I I_WITH IMMEDIATE WRITE___I

>_WITHOUT EXPLAIN___ ISOLATION LEVEL CS_____ OPHINT_ ' ' _____>
I_WITH EXPLAIN___II_ ISOLATION LEVEL RS_I I_OPHINT_string-constant_I
      I_ISOLATION LEVEL RR_I
      I_ISOLATION LEVEL UR_I
      <_ , _____>_SQL PATH_schema-nameI_____ RELEASE AT
COMMIT_____>
      I_SCHEMA PATH___I I_RELEASE AT DEALLOCATE_I
      I_SESSION USER_I
      I_USER_I
>_____>
I_ROUNDING DEC_ROUND_CEILING___I I_DATE FORMAT ISO___I
I_ROUNDING DEC_ROUND_DOWN_____I I_DATE FORMAT EUR___I
I_ROUNDING DEC_ROUND_FLOOR_____I I_DATE FORMAT USA___I
I_ROUNDING DEC_ROUND_HALF_DOWN_I I_DATE FORMAT JIS___I
I_ROUNDING DEC_ROUND_HALF_EVEN_I I_DATE FORMAT LOCAL_I
I_ROUNDING DEC_ROUND_HALF_UP___I
I_ROUNDING DEC_ROUND_UP_____I

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

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

>_____>
I_____ YES___I I_____ YES___I
I_SYSTIMESENSITIVE(_I_NO__I_)I I_BUSTIMESENSITIVE(_I_NO__I_)I
>_____>

```

```
| | _YES_ | |
| _ARCHIVESENSITIVE( | _NO_ | ) | | _APPLCOMPAT( _V12R1_ ) |
```

```
> _____>>
| _CONCENTRATE STATEMENTS OFF _____ |
| _CONCENTRATE STATEMENTS WITH LITERALS_ |
```

## CREATE TRIGGER(basic)

```
>> _CREATE TRIGGER_ trigger-name _____ NO CASCADE BEFORE _____ >
| _AFTER_____ |
| _INSTEAD OF_____ |
> _____ INSERT _____ ON_ table-name _____ >
| _DELETE_____ |
| _UPDATE_____ |
| <_ , _____ | | _OF_ column-name_ | |
> _____ >
| <_____ | | _AS_ | |
| _REFERENCING_____ OLD_ | | correlation-name _____ | _____ | | _AS_ |
| _NEW_ | | correlation-name _____ | | _AS_ | | _OLD
TABLE _____ | | identifier_ | | _AS_ | | _NEW TABLE _____ | | identifier_ |
> _____ FOR EACH ROW _____ MODE DB2SQL_ NOT SECURED_ triggered-action _____ ><
| _FOR EACH STATEMENT_ | | _SECURED_ _____ | triggered-action:
>> _____ SQL trigger body _____ >
| _WHEN_( _search-condition_ )_ |
| _____ > _BEGIN ATOMIC_ _____ triggered-
SQL-statement_ ;_ | _END _____ ><
```

## CREATE TRUSTED CONTEXT

```
>> _CREATED TRUSTED CONTEXT_ context-name _____ >
> _BASED UPON CONNECTION USING SYSTEM AUTHID_ authorization-name _____ >
| _NO DEFAULT ROLE _____ | _DISABLE_
> | _____ | _____ | _____ >
| _____ _WITHOUT ROLE AS OBJECT OWNER_ | | _ENABLE_ |
| _DEFAULT ROLE_ role-name_ | _____ | _____ |
| _____ _WITH ROLE AS OBJECT OWNER_ _____ |
| _NO DEFAULT SECURITY LABEL _____ |
> | _____ | _____ >
| _DEFAULT SECURITY LABEL_ seclabel-name _____ |
| _____ <_ , _____ |
> _ATTRIBUTES_ ( _____ ADDRESS_ address-value _____ | _____ >
| | _ENCRYPTION_ encryption-value_ | _____ |
| | _SERVAUTH_ servauth-value _____ | _____ |
| </_><_ , _____ | | _____ _JOBNAME_ jobname-
value_ | _____ |
```

```
> _____>
|                                     | | _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)

```
>> _CREATE TYPE_array-type-name_AS_built-in-type_ARRAY_ | _____ | _____>
| _____ | _____ |
| _____ | _____ |
```

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_ | | | | | | _____ | | | | | | _____ | | | | |
| _VARCHAR_ _____ | | | | | (1M) _____ | | | | | _____ _CHARACTER_ _____ _LARGE
OBJECT_ | _____ | _____ | | | | |
| _CHAR_ _____ | | (____integer____) | | | | | _CCSID_ _ASCII_ | | | | | _FOR_ _SBCS_ _____ _DATA_ | | | |
| _CLOB_ _____ | | | | | _EBCDIC_ | | | | | (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_____)___ |
|
|                                     |_K_|
|                                     |_M_|
|                                     |_G_|
|
|_DATE_| _____
|_____ |
| |_TIME_____ |
|
| |           |_(6)|_____ |_WITHOUT TIME ZONE_|
|
|_TIMESTAMP_| _____ | _____ | _____
|_____ |
|           |_(integer)___ | |_WITH TIME ZONE_____ |
|
|_ROWID_| _____
|_____ |

```

## CREATE VARIABLE

```

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

```



built-in-type:

> SMALLINT

>< | | \_INTEGER\_ |

|

| | | INT\_ | |

|

| | \_BIGINT\_ |

|

| | | (5,0) |

|

| | \_DECIMAL\_ | |

| | |

| | | \_DEC\_ | | ( \_integer\_ ) |

|

| | | \_NUMERIC\_ | | , integer\_ |

|

| | | (34) |

|

| | \_DECFLOAT\_ |

| | |

| | |

| | | (16) |

|

| | | (53) |

|

| | | \_FLOAT\_ | |

| | |

| | | ( \_integer\_ ) |

|

| | | \_REAL\_ |

|

| | | \_PRECISION\_ |

|

| | | \_DOUBLE\_ | |

|

| | | (1) |

|

| | | \_CHARACTER\_ | |

| | |

| | | | \_CHAR\_ | | (length\_) | | | \_CCSID\_ \_ASCII\_ |

| | | | \_FOR\_ \_SBCS\_ \_DATA\_ | | |

| | | | | \_CHARACTER\_ \_VARYING\_ (length\_) | | | \_EBCDIC\_ | | | \_MIXED\_ |

| | |

| | | | | \_CHAR\_ | | | | | \_UNICODE\_ |

| | |

| | | | \_VARCHAR\_ |

| | |



```

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

```

## CREATE VIEW

```

>> __CREATE VIEW__ view-name_____>
|      |_____ | |_(____column-name_|_)_|
> _____ AS_fullselect_____>
|      |_____ | |_WITH common-table-
expression_|_|
> _____>> |
|_CASCADED_____ |
|_WITH_|_____ |_CHECK OPTION_|
|_LOCAL_____ |

```

## DECLARE CURSOR

```

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

```

I\_WITH ROWSET POSITIONING \_\_\_\_ I

## DECLARE GLOBAL TEMPORARY TABLE

```
>> __DECLARE GLOBAL TEMPORARY TABLE __table-name____>
    < __ , _____ > ( _____ column-
spec __ I __ ) _____>
    I __LIKE__ table-name__ I _____ I
    I _____ I_view-name__ I _____ I_copy-options__ I
    I_as-result-table_____ I
< _____>
_____ I _____>>
I __CCSID__ ASCII_____ I I I __EBCDIC__ I I I I __UNICODE__ I
I I __DELETE ROWS__ I I __ON COMMIT__ I __PRESERVE ROWS__ I _____ I I
I __DROP TABLE__ I I I I I __LOGGED_____ I
I I _____ I I I I __ON ROLLBACK DELETE ROWS__ I
I __NOT LOGGED__ I _____ I __ I I __ON ROLLBACK PRESERVE ROWS__ I
column-spec: >> __column-name__ data-
type_____>
< _____>
_____ I _____>> I __NOT
NULL_____ I I __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 _____ I __CHARACTER__ I _____ I
_____ I I I I I I __CHAR_____ I I (length__)_____ I I
I __FOR_SBCS__ DATA_____ I I I I I I __CHARACTER_VARYING__ (length__)_____ I I
I __MIXED__ I I I I I I I 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_BLOB_____ | I_(integer_____)____ |
|
|                                     I_K_I
|
|                                     I_M_I
|
|                                     I_G_I
|
|_DATE_____
|_____ |
| I_TIME_____ |
|
| I      ___(6_)_____  _WITHOUT TIME ZONE_
|
|_TIMESTAMP_I_____ | _____ | _____ |
|_____ |
|      I_(integer)_I  I_WITH TIME ZONE_____ |
|
|_ROWID_____
|_____ |

```

## DECLARE VARIABLE

```

_____ _CCSID EBCDIC_____
>>_DECLARE__host-variableI_VARIABLE_I_____ ><
|I_CCSID ASCII_____ | I_FOR SCBS DATA_____|
|                                     |I_CCSID UNICODE_I  I_FOR MIXED DATA_|
|                                     |I_____          I_FOR BIT DATA_____|
|                                     |_CCSID__integer_____ |

```

## DELETE

searched delete:

```

>>_DELETE FROM__table-name_____ >
|_____ |I_view-name__ | I_period-clause_| I_correlation-clause_|
> _____ >
|I_include-column_| I_SET assignment-clause_|
> _____ >
|I_WHERE__search-condition_| I_isolation-clause_|
|_____ |I_SKIP LOCKED DATA_|
> _____ ><
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_|_____|_____ ><  
| |_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_____)____|
|
| | | |
| | | |
| | | |
| | | |
|
|_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__| _____ |
```





```

id _____ | _____ >
                |_* _____ |
                </_><_ , _____ > __TO_____ authorization-
name _____ | _____ >> |_PUBLIC_____ |
|_WITHGRANT OPTION_|
                |_ROLE_role-name_____ |

```

## GRANT (plan privileges)

```

>> __GRANT _____ BIND _____ |__ ON PLAN _____ plan-
name | _____ >
                |_EXECUTE_|

                </_><_ , _____ > __TO_____ authorization-
name | _____ >> |_PUBLIC_____ |
|_WITH GRANT OPTION_|
                |_ROLE_role-name_____ |

```

## GRANT (schema privileges)

```

>> __GRANT _____ ALTERIN _____ |__ ON SCHEMA _____ schema-name | _____ >
                |_CREATEIN_|
                |_DROPIN_|

                </_><_ , _____ > __TO_____ authorization-
name | _____ >> |_PUBLIC_____ |
|_WITH GRANT OPTION_|
                |_ROLE_role-name_____ |

```

## GRANT (sequence privileges)

```

>> __GRANT _____ ALTER _____ |__ ON SEQUENCE _____ sequence-name | _____ >
                |_USAGE_|
                |_* _____ |

                </_><_ , _____ > __TO_____ authorization-
name | _____ >> |_PUBLIC_____ |
|_WITH GRANT OPTION_|
                |_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__I_|
|_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_____I_|
```



```

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

```

```

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

```

## GRANT (type or JAR privileges)

```

name_|_____|_____>>_GRANT_USAGE_ON_TYPE_type-
|_____|_____>
|_____|_____</_><_,_____|_____|
|_JAR_jar-name_|_____|
name_|_____|_____>_TO_____authorization-
|_____|_____>< |_PUBLIC_____|
|_ROLE_role-name_____|

```

## GRANT (variable privileges)

```

>>_GRANT_____ALL_|_____|_ON_VARIABLE_variable-name_____>
|_____|_____<_,_____|_____|
|_____READ_|_____|
|_WRITE_|
name_|_____|_____>_TO_____authorization-
|_____|_____>< |_PUBLIC_____|
|_WITH GRANT OPTION_|
|_ROLE_reole-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 _____ >
      |_view-name_| | <_ , _____ | |_(____column-
name_|_)_|
> _____ >
  |_include-column_| |_OVERRIDING USER VALUE_|
> __VALUES _____ >>>
  | | |_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:
```





|\_NOT\_| |\_AND\_search-condition\_| modification-operation: >> \_\_update-operation \_\_\_\_\_ >< |\_insert-operation \_\_\_\_\_ |  
|\_delete-operation \_\_\_\_\_ |

assignment-clause:

<, \_\_\_\_\_ >> \_column-name \_\_\_\_\_ expression \_\_\_\_\_ | \_\_\_\_\_ >< |  
\_DEFAULT \_\_\_\_\_	\_\_\_\_\_								
\_\_\_\_\_	\_NULL \_\_\_\_\_	\_\_\_\_\_							
<, \_\_\_\_\_ <, \_\_\_\_\_		\_(column-name \_\_\_\_\_	\_) \_\_\_\_\_ ( \_\_\_\_\_ expression \_\_\_\_\_	\_) \_\_\_\_\_			\_DEFAULT \_\_\_\_\_		
\_NULL \_\_\_\_\_			\_row-fullselect \_\_\_\_\_	update-operation: >> UPDATE SET assignment-clause \_\_\_\_\_ >< insert-operation:					
>> \_INSERT \_\_\_\_\_ VALUES \_\_\_\_\_ expression \_\_\_\_\_ >  
< | <, \_\_\_\_\_ | | |\_DEFAULT \_\_\_\_\_ | \_\_\_\_\_ |  
| \_\_\_\_\_ |\_(column-name |\_) | \_\_\_\_\_ |\_NULL \_\_\_\_\_ | \_\_\_\_\_ |  
| \_\_\_\_\_ | <, \_\_\_\_\_ |  
|\_( \_\_\_\_\_ expression \_\_\_\_\_ |\_) | |\_DEFAULT \_\_\_\_\_ | |\_NULL \_\_\_\_\_ | delete-operation:  
>> \_DELETE \_\_\_\_\_ >  
<

## OPEN

>> \_OPEN \_\_cursor-name \_\_\_\_\_ >< |  
<\_, \_\_\_\_\_ |  
|\_USING \_\_\_\_\_ variable | \_\_\_\_\_ |  
| \_\_\_\_\_ |\_array-variable | |  
|\_USING DESCRIPTOR \_\_\_\_\_ descriptor-name |

## PREPARE

>> \_PREPARE \_\_statement-name \_\_\_\_\_ >  
> \_\_\_\_\_ >  
|\_INTO \_\_descriptor-name \_\_\_\_\_ |  
| \_\_\_\_\_ |\_NAMES \_\_\_\_\_ |  
|\_USING \_\_\_\_\_ |\_LABELS \_\_\_\_\_ |  
| \_\_\_\_\_ |  
|\_ANY \_\_\_\_\_ |  
|\_BOTH \_\_\_\_\_ |  
> \_FROM \_\_string-expression \_\_\_\_\_ ><  
| \_\_\_\_\_ FROM\_host-variable \_\_\_\_\_ |  
|\_ATTRIBUTES \_\_attr-host-variable |

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-specfcation_ _____ >  
| _____ > _FROM_ _____ authorization-  
name _____ | _____ >  
| _PUBLIC_ _____ |  
| _ROLE-role-name_ _____ |  
> _____ ><  
| _____ | | _BY_ _____ authorization-name | _____ |  
| _ALL_ _____ | > _____ INCLUDING DEPENDENT  
PRIVILEGES _____ >< | _NOT INCLUDING  
DEPENDENT PRIVILEGES_ | _____ | _RESPECT_ _____ |
```

## REVOKE (collection privileges)

```
>> _REVOKE_ _____ CREATE _____ IN _____ COLLECTION _____ collection-  
id_| _____ >  
| _PACKADM_| | _ON_| _____ | _*_____ |  
</_>< _____ > _FROM_ _____ authorization-  
name _____ | _____ >  
| _PUBLIC_ _____ |  
| _ROLE-role-name_ _____ |
```





```

|
| | | | DOUBLE | | |
|
| | | | (1) |
|
| | | | CHARACTER | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | CHAR | | (integer) | | | CCSID ASCII |
| | | | FOR SBCS DATA | | |
| | | | CHARACTER VARYING (integer) | | | EBCDIC |
| | | | MIXED | | |
| | | | CHAR | | | UNICODE |
| | | |
| | | | VARCHAR |
| | | |
| | | | (1M) |
| | | |
| | | | CHARACTER LARGE OBJECT | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | CHAR | | (integer) | | | CCSID ASCII |
| | | | FOR SBCS DATA | | |
| | | | CLOB | | | EBCDIC |
| | | | MIXED | | |
| | | | (1) | | | UNICODE |
| | | |
| | | | GRAPHIC | | | |
|---|---|---|---|---|---|---|
| | | | (integer) | | | CCSID ASCII |
| | | |
| | | | VARGRAPHIC (integer) | | | EBCDIC |
| | | |
| | | | (1M) | | | UNICODE |
| | | |
| | | | DBCLOB | | |
| | | |
| | | | (integer) | | |
| | | |
| | | | (1) |
| | | |
| | | | BINARY | | |
|-----|
| | | | (integer) | | |
| | | |
| | | | BINARY VARYING (integer) | | |
| | | |
| | | | VARBINARY | | |

```



```

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

```

## REVOKE (plan privileges)

```

>> __ REVOKE _____ 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_ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ > _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 _____ |
| _____ | _____ |
| _____ 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

```

_____|_APPLICATION_|
>>__SET CURRENT_|_____|_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__|__table-name__|__DROP STORAGE__|__>
|__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_____ | | |
| | _____ | |
| | _____ | |
|_(<_, _____<_, _____)_|
| | _____ | |
| | _____ | |
|_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_____><
|_SQLEERROR__ | |_GOTO_____ host-label_|
|_SQLWARNING_| |_GO TO_|
```

</\_>

</\_></\_\_\_\_\_>

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