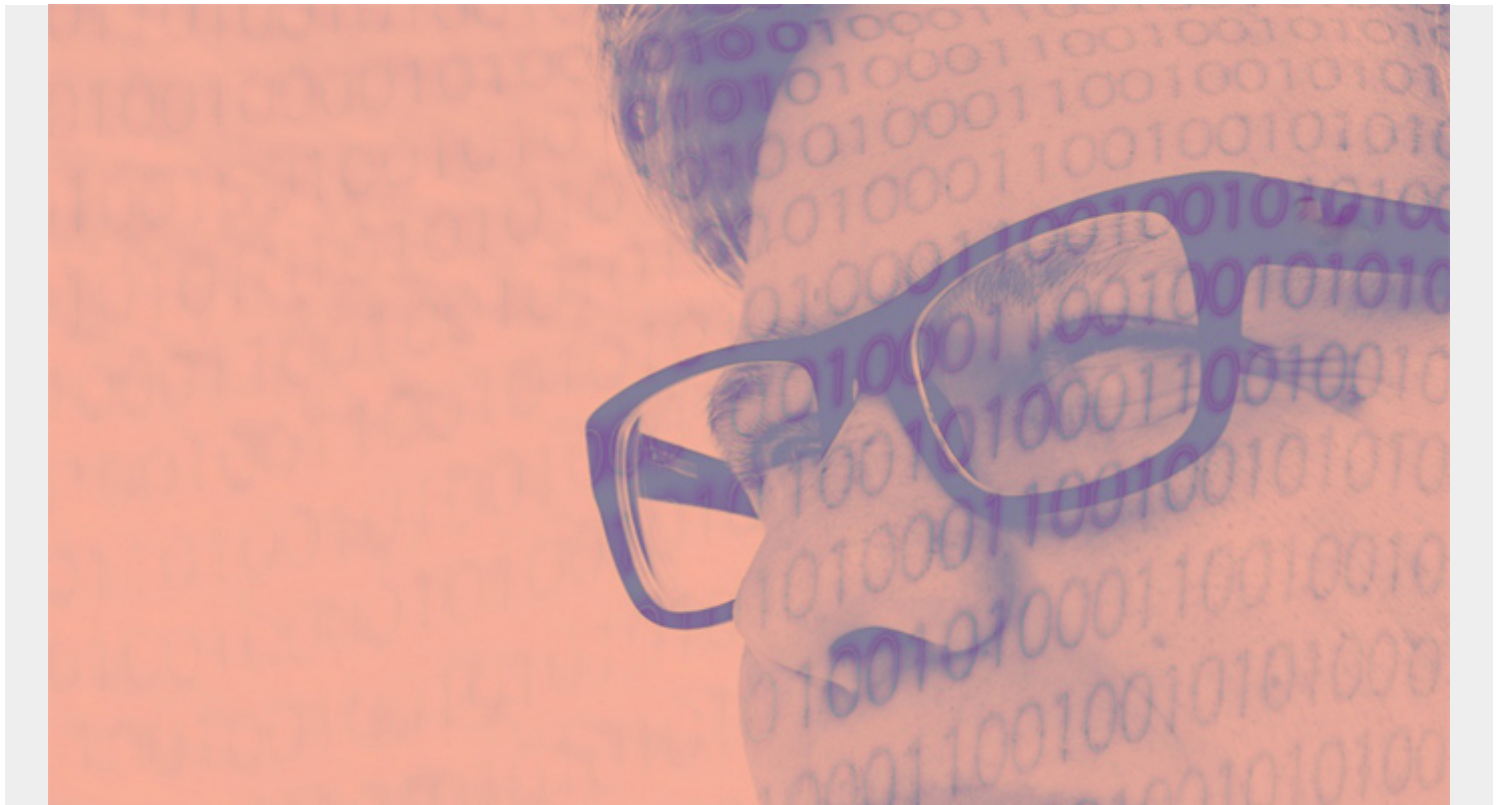


# QUERIES IN DB2 12



## subselect

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

## select-clause

```
>> __SELECT__ |_____|_____ >
              |_DISTINCT_|
> ____*_____ >> |
<_,_____|
    |____expression_____||_| |
    |_____||_AS_|_|
    |_____||_column-name_|_|
    |__unpacked-row_____||
```

```
|__table-name_____*_____|
|_view-name_____|
|_correlation-name_|
```

unpacked row:

```
<_,_____>>__UNPACK-
function-invocation_*_AS_( _field_name_data_type_|_____>< from-clause:
<_,_____>>__FROM____table-
reference_|_____>< table reference:
>>_____single-table-reference_____><
|_single-view-expression_____|
|_nested-table-expression_____|
|_table-function-reference_____|
|_data-chage-table-reference_____|
|_joined-table_____|
|_table-locator-reference_____|
|_collection-derived-table_____|
|_xmltable-expression_____|
```

single-table-reference:

```
<_____>>__table-
name_____|_____>< |_period-
specification___| |_correlation-clause_|
```

single-view-reference:

```
<_____>>__view-
name_____|_____>< |_period_-
specification___| |_correlation-clause_| period-specification:
>>__FOR__SYSTEM_TIME_____AS OF value_____><
|_BUSINESS_TIME_____| |_FROM_value1_to_value2_____|
|_BETWEEN_value2_AND_value2_| correlation-clause: _AS_
>>__|____|_correlation-name_____><
| <_,_____ | |_( _column-name|_)_| nested-table-expression:
>>_____ (fullselect) _correlation-clause_____><
|_TABLE_| table-function-reference: >>_TABLE_(function-
name(_____)_____)>
| <_,_____ |
|_____expression_____| | |_TABLE__transition_table_name_|
>__table-UDF-cardinality-clause__>
>__correlation-clause_____>
|_typed-correlation-clause_|
```

table-UDF-cardinality-clause:

```
>>__CARDINALITY__integer-constant_____><
|_CARDINALITY MULTIPLIER_numeric-constant_| data-change-table-reference:
>>__FINAL TABLE_(INSERT statement)_____>
|_FINAL____TABLE (searched UPDATE statement)| |_correlation-clause_|
```

```

| | _OLD_ |
| _OLD TABLE_ searched DELETE statement_____ |
| _FINAL TABLE_ (MERGE statement)_____ |

```

collection-derived-table:

```

>> _UNNEST_( _ordinary-array-expression_____ )_____ ><
| _associative-array-expression_ | | _WITH ORDINALITY_ | > _correlation-
clause_____ >

```

typed-correlation-clause

```

    _AS_
>> _ | _____ | _____ correlation-name_____ ><
| <_, _____ | | ( _column-name_data-type|_ ) | xmltable-
expression: >> _xmltable-function_ correlation
clause_____ >

```

joined-table:

```

    _INNER_
>> _table-reference_ | _____ | _JOIN_ table-reference_ON join-condition_ ><
| | _OUTER_ | | | | _LEFT_ | _____ | | | | _RIGHT_ | | | | _FULL_ | |
| _table-reference_ CROSS JOIN table-reference_____ |
| ( _joined-table_ ) _____ | For
INNER, LEFT OUTER, and RIGHT OUTER joins: >> _search-
condition_____ >< For FULL
OUTER joins:
    < _AND_ _____ | >> _full-join-
expression_ = _full-join-expression_ | _____ >< full-join-
expression: >> _column-
name_____ >< | | _cast-
function_ | _____ |
| _____ | _____ |
| _COALESCE_ ( _column-name_____, column-name_____ | ) | | _cast-
function_ | | , cast-function_ | where-clause: >> _WHERE_ search-
condition_____ >< group-by-clause:
    <_, _____ >> _GROUP BY_ grouping-
expression_ | _____ >
    | _grouping-set_ _____ |
    | _super-groups_ _____ |

```

grouping-set:

```

    </_>< _ , _____ > _GROUPING SETS_( _grouping
expression_ | _____ ) _____ >< | _____ | _super-groups_ |
|
| _____ | _____ | | ( _grouping-expression_____ | _____ |

```

```

|_super-groups_| super-groups: >__ROLLUP__(grouping-expression-
list)_____>< |_CUBE__(grouping-expression-
list)_____|
|_grand-total_____|

```

grouping-expression-list:

```

<_,_____> __grouping-
expression_|_____>< |
<_,_____ | |_(grouping-expression_|_)_| having-clause:
>> __HAVING__ search-condition_____><
order-by-clause:
<_,_____ _ASC__ | >__ORDER BY__ sort-
key_|_____>< | | | _DESC_| | | |
|_ORDER OF table-designator_| | | _INPUT SEQUENCE_____| sort-key:
> __column-name_____><
|_integer_____ | | _sort-key-expression_| offset clause:
>> __OFFSET__ offset-row-count__ ROW_____><
|_ROWS_| fetch-clause: _1_____ >> __FETCH FIRST_____| _____| __ROW__
__ONLY_____>< |_NEXT_| |_integer_| |_ROWS_|

```

## fullselect

```

<_____> __subselect_____
_____|_____>
|_(fullselect)| | _____ _DISTINCT_____ | | |
|_values-clause_| | _UNION_____ | _____| __subselect_____|
|_EXCEPT_____| | _ALL_____ | |_(fullselect)|
|_INTERSECT_|
>_____><
|_order-by-clause_| | _offset-clause_| | _fetch-clause_| values-clause:
> __VALUES__ sequence-reference_____><
| <_,_____ | |_(sequence-reference_____ | _____| select-
statement: >__
_____>
|_WITH__ common-table-expression_|
> __fullselect_____ | _____>
|_read-only-clause_____|
|_update-clause_____|
|_optimize-clause_____|
|_isolation-clause_____|
|_queryno-clause_____|
|_SKIP LOCKED DATA_____|

```

common-table-expression:

```

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

```

## STATEMENTS

### ALLOCATE CURSOR

```

>> __ALLOCATE__ cursor-name_CURSOR FOR RESULT SET__rs-locator-variable_____>

```

### ALTER DATABASE

```

<_____>> __ALTER DATABASE__ database-
name_____BUFFERPOOL__bpname_____|_____|
|_INDEXBP__bpname_____|
|_STOGRROUP__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_____

```



```

> __ NO EXTERNAL ACTION__ __ NO SCRATCHPAD_____>
  |_EXTERNAL ACTION___| |_SCRATCHPAD___length___|
> __ PACKAGE PATH package path_____>
  |_NO PACKAGEPATH_____|
> __ NO FINAL CALL__ __ ALLOW PARALLEL_____ __ NO DBINFO_ _____>
  |_FINAL CALL___| |_DISALLOW PARALLEL_| |_DBINFO___|
> __ CARDINALITY__integer_____ __ NO COLLID_____>
  |_COLLID___collection-id_|
> __ WLM ENVIRONMENT__ __ name_____>
  |_(__name__,*__)|
> __ ASUTIME__ __ NO LIMIT_____ __ STAY RESIDENT__ __ NO_____>
  |_LIMIT___integer_| |_YES_|
> __ PROGRAM TYPE__ __ SUB__ __ SECURITY__ __ DB2_____>
  |_MAIN_| |_USER___|
  |_DEFINER_|
> __ STOP AFTER SYSTEM DEFAULT FAILURES_____>
  |_STOP AFTER-integer-FAILURES___|
  |_CONTINUE AFTER FAILURE_____|
> __ RUN OPTIONS__run-time-options_____>
> __ INHERIT SPECIAL REGISTERS__ __ STATIC DISPATCH __ SECURED_____>>
|_DEFAULT SPECIAL REGISTERS_| |_NOT SECURED_| 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 FUNCTION(compiled SQL scalar)

```

> __ ALTER__ function-designator_____>

  __ ALTER__ __ ACTIVE VERSION_____
<_____> |_____| |_____| _____options-
list_|_____>
  |_____ |_ALL VERSIONS_____ |

```





```

I_UNICODE_I I
I_GRAPHIC_I _____ I _____
_____ I I I I_(integer)_____ I I I CCSID_ASCII_____ I I I
I_VARGRAPHIC__(integer)_____ I I_EBCDIC_____ I I I I_(1M)_____
I_UNICODE_I I I I_DBCLOB_I _____ I I I I_(integer)_____ I I I
_(1)_____ I I I
I_BINARY_I _____ I _____
_____ I I I I_(integer)_____ I I I I I_BINARY VARYING
_(integer)_____ I I I I I_VARBINARY_____ I I I I I
_(1M)_____ I I I I_BINARY LARGE
OBJECT_____ I _____ I _____ I I I I_BLOB_____ I
I_(integer)_____ I I I I_K_I I I I I_M_I I I I I_G_I I
DATE
_____ I I I TIME_____ I I I I_(6)_____ WITHOUT TIME ZONE_ I I
I_TIMESTAMP_I _____ I _____ I _____ I _____
_____ I I I_(integer_(I I WITH TIME ZONE_____ I I
I_ROWID_____
_____ I
I_XML_____
_____ I SQL-routine-body >>_SQL-control-
statement_____ >< option-list:
> NOT DETERMINISTIC_____ EXTERNAL ACTION_____ >
I_DETERMINISTIC_____ I I_NO EXTERNAL ACTION_I
> READS SQL DATA_____ CALLED ON NULL INPUT_____ >
I_CONTAINS SQL_____ I I_RETURNS NULL ON NULL INPUT_I
I_MODIFIES SQL DATA_I
> STATIC DISPATCH_____ ALLOW PARALLEL_____ >
I_DISALLOW PARALLEL_I
> DISALLOW DEBUG MODE_____ QUALIFIER schema-name_____ >
I_ALLOW DEBUG MODE_____ I
I_DISABLE DEBUG MODE_____ I
> PACKAGE OWNER_ authorization-name_____ ASUTIME_NO LIMIT_____ >
I_ASUTIME_LIMIT_integer_I
> INHERIT SPECIAL REGISTERS_____ WLM ENVIRONMENT FOR DEBUG MODE name_____ >
I_DEFAULT SPECIAL REGISTERS_I
> CURRENT DATA NO_____ CONCURRENT ACCESS RESOLUTION USE CURRENTLY COMMITTED_ >
I_CURRENT DATA YES_ I I_CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME_____ >
> DYNAMICRULES RUN_____ >
I_DYNAMICRULES BIND_____ I I_APPLICATION ENCODING SCHEME ASCII_____ I
I_DYNAMICRULES DEFINEBIND_I I_APPLICATION ENCODING SCHEME EBCDIC_____ I
I_DYNAMICRULES DEFINERUN_____ I I_APPLICATION ENCODING SCHEME UNICODE_I
I_DYNAMICRULES INVOKEBIND_I
I_DYNAMICRULES INVOKERUN_____ I
> WITHOUT EXPLAIN_____ ISOLATION LEVEL CS_____ OPHINT_ ' ' _____ >
I_WITH EXPLAIN_____ I I_ISOLATION LEVEL RS_I I_OPHINT_string-constant_I
I_ISOLATION LEVEL RR_I
I_ISOLATION LEVEL UR_I

```

```

        </_><_ , _____ >_SQL PATH__schema-name|_____REOPT
NONE_____VALIDATE RUN_____>
        I_SCHEMA PATH__| I_REOPTALWAYS_| I_VALIDATE BIND_|
        I_SESSION USER_| I_REOPT ONCE_|
        I_USER_|
> _____>
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_____|
> _____>
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_UP___| I_DATE FORMAT LOCAL_|
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)|
> _____>
_____SECURED_____>
I_TIME FORMAT ISO___| I_NOT SECURED_|
I_TIME FORMAT EUR___|
I_TIME FORMAT USA___|
I_TIME FORMAT JIS___|
I_TIME FORMAT LOCAL_|
> _____>
_____BUSINESS TIMESENSITIVE YES_ _____SYSTEM TIMESENSITIVE YES_
> _____| _____| _____>
I_BUSINESS TIMESENSITIVE NO___| I_SYSTEM TIMESENSITIVE NO___|
> _____>
_____ARCHIVE SENSITIVE YES_____
> _____| _____>
< I_ARCHIVE SENSITIVE NO___| I_APPLCOMPAT_compatibility-level_|
> _____>
I_CONCENTRATE STATEMENTS OFF_____|
I_CONCENTRATE STATEMENT WITH LITERALS_|
</_></|_____>

```

# ALTER FUNCTION (inline SQL scalar)

```
> ALTER FUNCTION funtion-name_____option-list_>
|
| <_,_____|||
|_(_____)|_|_|_|parameter-type_____|||SPECIFIC
FUNCTION_specific-name_____|Parameter-type: >_data-
type_____>
```

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\_|\_|\_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\_\_\_\_\_||

```

I_ROWID_____
|
I_XML_____
| option-list: >___NOT DETERMINISTIC_____EXTERNAL
ACTION_____>
  I_DETERMINISTIC_____I   I_NO EXTERNAL ACTION_I
>___READS SQL DATA_____CALLED ON NULL INPUT___NOT SECURED_____>
  I_CONTAINS SQL_____I   I_SECURED___I
>___STATIC DISPATCH_____>

</_>

```

## ALTER FUNCTION (SQL table)

```

>___ALTER___function-designator___RESTRICT___options-list_____>

function-designator:

>___FUNCTION___function-name_____>
  |
  | <_,_____|||
  I_(_____I_)_|||I_parameter-type_I||I_SPECIFIC
FUNCTION___specific-name_____I parameter-type:
>>___data-type_____>>
data-type: >>___built-in-data-
type_____>< I_distinct-type-
name_I built-in-data-type:
>___SMALLINT_____
_____>< ||_INTEGER_| ||| | INT_| ||| | |_BIGINT_| |||
_____(5,0)_____I
I__DECIMAL___|_____I_____
_____||_DEC_____| I_(integer_____)_____| |
||_NUMERIC_| |_, integer_| |||_(34)_| |_DECFLOAT_
|_|
|_| |(16)_| | | |(53)_____I
I__FLOAT___|_____I_____
_____||| |_(integer_)_| ||| |_REAL_____||| |
|_PRECISION_| | | |_DOUBLE_| _____| | | | |(1)_____I
|_____CHARACTER___|_____I_____
_____||| | |_CHAR_____| |_(length_)_____| | | |_CCSID__ASCII___|
|_FOR__SBCS__DATA_| | | | | | |__CHARACTER__VARYING__(length_)_|
|_EBCDIC_| |_MIXED_| | | | | | | |_CHAR_____| | | |_UNICODE_| |_BIT_| | | | |
|_VARCHAR_____||| | | |(1M)_____||| | |__CHARACTER___LARGE
OBJECT_| |_____I | | | |
|_CHAR_____| |_(integer_)_| |_CCSID__ASCII___| |_FOR__SBCS__DATA_| | |
|_CLOB_____||_EBCDIC___| |_MIXED_| | | | |(1)_____
|
|_GRAPHIC_| |_____I_____

```



```

| I_NOT CLUSTER_I |
| __COMPRESS NO_____ |
| I_COMPRESS YES_I |
| __NOT PADDED_____ |
| I_PADDED_____ |
| |
| |__ASC_____ | |
|_ADD COLUMN_(column name_|_____|_)_____ |
| |__DESC_____| |
| |__RANDOM_____| |
|_INCLUDE COLUMN (column-name)_____|

```

```

> _____>
| <_,_____ |
| | <_,_____ | | | | |
| | | <_____ | |
|_____|__ALTER__|__partion-element_____ |_____|_|_|
|_using-block_____|
|_free-block_____|
|_gbpcache-block_|
|_DSSIZE int G_____|

```

### using-block

```

<_____
>>_____|__USING_____|__VCAT__catalog-name_____ |_____>> |
|_STOGROUP__stogroup-name_| |
|_PRIQTY__integer_____ |
|_SECQTY__integer_____ |
|_ERASE_____|__YES_____ |
|_____|__NO_____|

```

### free-block

```

<_____
>>_____|__FREEPAGE__integer_____|_____>>
|_PCTFREE__integer_____| gbpcache-block
>>__GBPCACHE_____|__CHANGED_____>>
|_ALL_____| |_NONE_____| partition-element
>>__PARTITION__integer_____>
| |
| |__AT_____| </_><_,_____ |__INCLUSIVE_____| |
|_ENDING_____|_____|__(constant_____|_)_____|_____ |
| |__MAXVALUE_____|
| |__MINVALUE_____|

```

## ALTER MASK

```

>>__ALTER MASK__mask-name_____|__ENABLE_____>
|_____|__DISABLE_____|

```

I\_REGENERATE\_I

## 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_|          |

```





```

    |_(_____)_|
    |< , _____ | |_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)_____ |_UNICDOE_| | | | |_DBCLOB_| _____ | | |
|_(integer)_____ | | | |_(1M)_____ | | |
|_BINARY_| _____|
_____ | | | |_(integer)_____| | | | |_BINARY VARYING
_(integer)_____ | | | | |_VARBINARY_____ | | | |
|_(1M)_____ | | | | |_BINARY LARGE
OBJECT_____ | _____ | _____ | | |
|_BLOB_____ | |_(integer_____)_____ | | | | |_K_| | | | |_M_|
| | | |_G_| |
|_DATE_____
_____ | | | |_TIME_____ | | | | |_(6_)_____ _WITHOUT TIME ZONE_| | |
|_TIMESTAMP_| _____ | _____ | _____|
_____ | | | |_(integer)_____| | |_WITH TIME ZONE_____ | | |
|_XML_____

```

```

_____ | option-list: > _____ NOT
DETERMINISTIC _____ >
    I_DETERMINISTIC _____ I          I_DYNAMIC RESULT SETS integer_I
> _____ READS SQL
DATA _____ >
    I_CONTAINS SQL _____ I          I_CALLED ON NULL INPUT_I
    I_MODIFIES SQL DATA _____ I
> _____ STATIC DISPATCH _____ ALLOW
PARALLEL _____ >
    I_DISALLOW PARALLEL_I
> _DISALLOW DEBUG MODE _____ PARAMETER CCSID ASCII _____ QUALIFIER schema-
name _____ >
    I_ALLOW DEBUG MODE _____ I I_PARAMETER CCSID EBCDIC _____ I
    I_DISABLE DEBUG MODE _____ I I_PARAMETER CCSID UNICDOE _____ I
> _PACKAGE OWNER _____ auth-name _____ ASUTIME_NO_LIMIT _____ COMMIT ON RETURN
YES _____ >
    I_ASUTIME_LIMIT _____ int_I I_COMMIT ON RETURN NO _____ I
    I_AUTONOMOUS _____ I
> _INHERIT SPECIAL REGISTERS _____ WLM ENVIRONMENT FOR DEBUG MODE
name _____ >
    I_DEFAULT SPECIAL REGISTERS_I
> _CURRENT DATA NO _____ CONCURRENT ACCESS RESOLUTION USE CURRENTLY
COMMITTED _____ >
    I_CURRENT DATA YES _____ I CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME _____ I
> _____ DEGREE
1 _____ >
    I_DEFER PREPARE _____ I    _IDEGREE ANY 1_I
    I_NODEFER PREPARE _____ I
> _____ DYNAMICRULES
RUN _____ >
    I_DYNAMICRULES BIND _____ I I_APPLICATION ENCODING SCHEME ASCII _____ I
    I_DYNAMICRULES DEFINEBIND _____ I I_APPLICATION ENCODING SCHEME EBCDIC _____ I
    I_DYNAMICRULES DEFINERUN _____ I I_APPLICATION ENCODING SCHEME UNICODE _____ I
    I_DYNAMICRULES INVOKEBIND _____ I
    I_DYNAMICRULES INVOKERUN _____ I
> _WITHOUT EXPLAIN _____ ISOLATION LEVEL CS _____ OPHINT _____ '
_____ >
    I_WITH EXPLAIN _____ I I_ISOLATION LEVEL RS _____ I    I_OPHINT_string-constant_I
    I_ISOLATION LEVEL RR _____ I
    I_ISOLATION LEVEL UR _____ I
    < _____ , _____ > _SQL PATH _____ schema-name | _____ REOPT
NONE _____ VALIDATE RUN _____ >
    I_SCHEMA PATH _____ I I_REOPT ALWAYS _____ I I_VALIDATE BIND _____ I
    I_SESSION USER _____ I I_REOPT ONCE _____ I
    I_USER _____ I
>
_>

```

```

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( | _NO_ | )_ | I_BUSTIMESENSITIVE( | _NO_ | )_ |

```

>

```

| _____ _YES_ | | _____ |
I_ARCHIVESENSITIVE( | _NO_ | )_ | I_APPLCOMPAT( __level__ )_ |

```

>

```

I_CONCENTRATE STATEMENTS OFF _____ |
I_CONCENTRATE STATEMENTS WITH LITERALS_ |

```

## ALTER SEQUENCE

>> \_\_ALTER SEQUENCE\_\_ sequence-name \_\_\_\_\_ >

< \_\_\_\_\_ > \_\_ \_RESTART\_\_

\_\_\_\_\_ | \_\_\_\_\_ >> |

```

I_WITH__ numeric-constant_ | |
I_INCREMENT BY__ numeric-constant _____ |
I _NO MINVALUE _____ |
I | _MINVALUE__ numeric-constant_ | |
I _ _NO MAXVALUE _____ |

```



```

|_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_|_____I_VERSIONING USE HISTORY TABLE hist-table_|
|      |_SYSTEM_|
|_DROP_|_____I_VERSIONING_____
|      |_MATERIALIZED_|
|      |_____|_____I_QUERY_|
|_ADD_|_____I_mqt-def_____
|      |_MATERIALIZED_|
|_DROP_|_____I_QUERY_____
|      |_MATERIALIZED_|
|_ALTER_|_____I_QUERY_____mqt-alt_____
|      |_CHANGES_|
|      |_ALL_____|
|_DATA CAPTURE_____NONE_____
|      |_____I_CHANGES_|
|      |_____CARDINALITY_|
|_NOT VOLATILE_____|_____I_____
| |_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_____
|      |_____I_NULL_____|
|_AUDIT_____NONE_____
|      |_CHANGES_|
|      |_ALL_____|
|_ENABLE ARCHIVE_USE_ archive-table-name_____
| |_DISABLE ARCHIVE_____

```

column-definition:

```

> _____column-name_data-type_____>
< _____>
_____|____><

```













partition-clause:

```

    _AT_ <_,_____ _INCLUSIVE_ >>_
ENDING_ | _____ | ( ___ constant_ |_) | _____ | _____ >< |
|_MAXVALUE_ | _____ |
| _____ | _MINVALUE_ | _____ |
|_HASH SPACE_ integer_ _K _____ |
| _____ |
|_M_ |
|_G_ |

```

partition-rotation:

```

>> _ENDING_ | _____ | ( ___ constant_ |_) | _____ | _____ RESET _____ >
| _____ |
|_MAXVALUE_ |
|_MINVALUE_ |

```

extra-row-option:

```

>> _ON DELETE ADD EXTRA ROW _____ ><

```

materialized-query-definition: >>\_( \_fullselect\_) refreshable-table-  
options \_\_\_\_\_ >

refreshable-table-options:

```

>> _DATA INITIALLY DEFERRED_ _REFRESH DEFERRED _____ >
< _____ > _____
_____ | _____ >< |
|_MAINTAINED BY SYSTEM_ | _____ | |
|_ | _____ | _____ |
| | _MAINTAINED BY USER_ | _____ |
| _ENABLE QUERY OPTIMIZATION_ | _____ |
|_ | _____ | _____ |
|_DISABLE QUERY OPTIMIZATION_ | _____ |

```

materialized-query-table-alteration:

```

< _____ >> _SET _____ MAINTAINED BY
SYSTEM _____ | _____ >
| | _MAINTAINED BY USER_ | _____ |
| _ENABLE_ QUERY OPTIMIZATION_ | _____ |
|_DISABLE_ QUERY OPTIMIZATION_ | _____ |

```

period-definition:

```

>> _SYSTEM_TIME_ ( _begin-column-name, end-column-name ) _____ >
| _____ | _____ _EXCLUSIVE_ | |
|_BUSINESS_TIME_ ( _begin-column-name, end-column-name ) | _____ | |
| _____ | _____ |
|_INCLUSIVE_ |

```

organization-clause:

```

< _____ _HASH SPACE_ 64M _____ >> _UNIQUE_ ( _column-
name_ ) | _____ | _____ >

```

I\_HASH SPACE\_integer\_K\_I

I\_M\_I

I\_G\_I

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

## ALTER TABLESPACE

```
>>__ALTER TABLESPACE_____table-space-name_____>
      I_database-name._I
<_____>_____BUFFERPOOL__bpname_____
_____I_____>< I_LOCKSIZE_____ANY_____I
I_____I_TABLESPACE_I I I I_TABLE_____I I I I_PAGE_____I I I
I_ROW_____I I I I_LOB_____I I I I_LOCKMAX_____SYSTEM_____I I
I_integer_I I I I_CLOSE_____YES_____I I I_NO__I I
I_USING_____VCAT__catalog-name_____I I I I_STOGROUP__stogroup-name_I I
I_PRIQTY__integer_____I I I_SECQTY__integer_____I
I_ERASE_____YES_____I I I_NO__I I
I_FREEPAGE__integer_____I I I_PCTFREE__integer_____I
I_COMPASS_____YES_____I I I_NO__I I I_DROP PENDING
CHANGES_____I I I_DSSIZE__integer_G_____I I I_MEMBER
CLUSTER YES_____I I I_MEMBER CLUSTER NO_____I
I_SEGSIZE__integer_____I I I_GBPCACHE_____CHANGED_____I
I I_ALL_____I I I I_SYSTEM__I I I I_NONE_____I I
I_LOCKPART_____YES_____I I I_NO__I I
I_MAXROWS__integer_____I I I_MAXPARTITIONS__integer_____I
I_TRACKMOD_____YES_____I I I_NO__I I
I_LOGGED_____I I I_NOT LOGGED__I I I_CCSID__ccsid-
value_____I I I_PAGENUM RELATIVE_____I I I_PAGENUM
ABSOLUTE_I >>__ALTER
PARTITION__integer_____>
      I_USING_____VCAT__catalog-name_____I
      I_____I_STOGROUP__stogroup-name_I I
      I_PRIQTY__integer_____I
      I_SECQTY__integer_____I
      I_ERASE_____YES_____I
      I_____I_NO__I
      I_FREEPAGE__integer_____I
      I_PCTFREE__integer_____I
      I_COMPRESS_____YES_____I
      I_____I_NO__I
      I_GPBCACHE_____CHANGED_____I
      I_____I_ALL_____I
      I_____I_SYSTEM__I
      I_____I_NONE_____I
```

```

I_DSSIZE_integer_G_____I
I_TRACKMOD__YES_____I
I_NO__I

```

```
</_____>
```

## ALTER TRIGGER (advanced)

```
>>_ALTER TRIGGER_trigger_-name_____>

  _ALTER_ _ACTIVE VERSION_____
>_I_____I_____I_option-
list_____>< I I I I I I_VERSION trigger-version-id____I I I _
ACTIVE VERSION_____I
I_REPLACE__I_____I_trigger-specification____I I I I I
I I_VERSION trigger-version-id____I I I_ADD VERSION_trigger-version-
id__trigger-specification_____I I_ACTIVATE VERSION trigger-version-
id_____I I_ACTIVE VERSION_____I
I_REGENERATE__I_____I_trigger-specification____I I I I I
I I_VERSION trigger-version-id_I I I_DROP VERSION-trigger-version-
id_____I trigger-specification: >>_trigger-
activation-time__trigger-event__ON__table-name_____>
I_view-name_____I

>_____>
I_____<_____I I _AS_ I I
I_REFERENCING__OLD__I____I_correlation-name_____I_____I I _AS_ I
I_NEW__I____I_correlation-name____I I _AS_ I I_OLD
TABLE_____I____I_identifier_I I I _AS_ I I_NEW TABLE_____I____I_identifier_I
>__trigger-granularity_____triggered-action_____>
I_option-list____I

trigger-activation-time
>>__NO CASCADE BEFORE_____>
I_AFTER_____I
I_INSTEAD OF_____I

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

>_____>
  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

>_____>

```





```

|
|_DROP_ATTRIBUTES_ (<_ , _____ |
|
| |_SERVAUTH_servauth-value _____ | |
|
| |_JOBNAME_jobname-value _____ |
|_user-clause _____ |

```

user-clause:

```

<_ , _____ >> _ADD
USE FOR _____ authorization-name _____ | _____ >< |
|
| |_use-options_ | | | | |
| | |_EXTERNAL SECURITY PROFILE profile-name _____ | |
| | | |_WITHOUT AUTHENTICATION_ |_use-options_ | |
| | |_PUBLIC _____ | _____ | _____ | |
| | | |_WITH AUTHENTICATION _____ | |
|
| <_ , _____ |
|_REPLACE USE FOR _____ authorization-name _____ | _____ |
|
| | |_use-options_ | | | |
| | | |_WITHOUT AUTHENTICATION_ | | |
| | |_PUBLIC _____ | _____ | _____ | |
| | | |_WITH AUTHENTICATION _____ | |
|
| <_ , _____ | |_DROP
USE FOR _____ authorization-name _____ | _____ | |_EXTERNAL
SECURITY PROFILE_profile-name_ | |_PUBLIC _____ | use-options:
>> _____ >
|_ROLE_role-name_ | |_SECURITY LABEL-seclabel-name_ |
| |_WITHOUT AUTHENTICATION_
>> _____ | _____ | _____ | _____ ><
|_WITH AUTHENTICATION _____ |

```

## ALTER VIEW

```

>> _ALTER VIEW _view-name _REGENERATE _____ >

```

## ASSOCIATE LOCATORS

```

_____ _RESULTS SET_
>> _ASSOCIATE_ | _____ | _____ LOCATOR _____ >
| _____ |
| <_ , _____ >_ ( _____ rs-locator-
variable_ | _____ ) _____ >
> _WITH PROCEDURE _____ procedure-name _____ ><
|_host-variable_ |

```

# BEGIN DECLARE SECTION

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

# CALL

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

# CLOSE

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

# COMMENT ON

```
>> __COMMENT ON _____ >  
> ____ alias-designator _____ IS string-constant >< |  
|_COLUMN_ table-name ____ .column-name _____ || | | |_view-name_| ||  
| | _ACTIVE VERSION _____ || | | _function-  
designator_| _____ || | | |_VERSION_ routine-version-  
id_|| | | |_INDEX_ index-name _____ || |  
|_PACKAGE_ collection-id.package-name _____ || | | | _VERSION_ || | |  
| | _____ |_id_| || | | |_PLAN_ plan-  
name _____ || | | | _ACTIVE VERSION _____ || |  
|_PROCEDURE_ procedure-name_| _____ || | | |_VERSION_ rt-ver-  
id_|| | | |_ROLE_ role-name _____ || |  
|_SEQUENCE_ sequence-name _____ || | | |_TABLE_ table-  
name _____ || | | |_view-name_| || | |  
|_TRIGGER_ trigger-name _____ || | | |_TRUSTED  
CONTEXT_ context-name _____ || | | |_TYPE_ _____ distinct-type-  
name _____ || | | |_MASK_ mask-  
name _____ || | | |_PERMISSION_ permission-  
name _____ || | |_multiple-  
column_list _____ | alias-designator: _FOR  
TABLE _____ >> _____ ALIAS alias-name_  
| _____ | _____ >  
|_PUBLIC_| | _____ |  
|_FOR SEQUENCE_|
```

multiple-column-list







name\_\_FOR\_\_SEQUENCE\_\_sequence-name\_\_\_\_\_><

## CREATE AUXILIARY TABLE

```
>> __CREATE__ AUXILIARY__ TABLE__ aux-table-name__ IN_____ >
      |_AUX_____|
> _____table-space-name__STORES__table-name_____ >
      |_database-name_|
> __APPEND NO__ COLUMN__ column-name_____ ><
|_APPEND YES_| |_PART__integer_|
```

## CREATE DATABASE

```
>> __CREATE DATABASE__ database-name_____ >
< _____ >
|_____ ><
|_BUFFERPOOL__bpname_____|
  |_INDEXBP__bpname_____|
  |_AS__WORKFILE_____|
  |_____|_FOR__member-name_| |
  |_____|_SYSDEFLT_____|
  |_STOGROUP__|_stogroup-name_| |
  |_CCSID__ASCII_____|
    |_EBCDIC_|
    |_UNICODE_|
```

## CREATE FUNCTION (compiled SQL scalar)

```
>> __CREATE FUNCTION__ function-name__ (_____)__ >
      |_<_,_____|
|__parameter-declaration_| |_VERSION V1_____ > __RETURNS__ data-
type2__|_____|_option-list__>< |_VERSION routine-
version-id_| parameter-declaration: >> _____parameter-
type_____ >< |_parameter-name_| parameter-type:
>> __data-type_____ >< |
|_AS LOCATOR__| |_TABLE LIKE__table-name__AS LOCATOR_| |_view-name_|
data-type: >> __built-in-data-
type_____ >< |_distinct-type-name_|
|_array-type-name_____| built-in-data-type:
> __SMALLINT_____
_____ >< | |_INTEGER_| | | |_INT_| | | | |_BIGINT_| | |
_____(5,0)_____ |
|_DECIMAL__|_____|
_____ | |_DEC__| |_(__integer_____)__| |
|_NUMERIC_| |_, integer_| | |_(34)_| |_DECFLOAT_
```



```

> __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_____||
>
_____|
  |_ROUNDING DEC_ROUND_CEILING___||_DATE FORMAT ISO___|
  |_ROUNDING DEC_ROUND_DOWN_____||_DATE FORMAT EUR___|
  |_ROUNDING DEC_ROUND_FLOOR_____||_DATE FORMAT USA___|
  |_ROUNDING DEC_ROUND_HALF_DOWN_|_DATE FORMAT JIS___|
  |_ROUNDING DEC_ROUND_HALF_EVEN_|_DATE FORMAT LOCAL_|
  |_ROUNDING DEC_ROUND_HALF_UP___|
  |_ROUNDING DEC_ROUND_UP_____||
>
_____|_FOR UPDATE CLAUSE REQUIRED_____>
  |_DECIMAL(15)___||_FOR UPDATE CLAUSE OPTIONAL_|
  |_DECIMAL(31)___|
  |_DECIMAL(15,s)_|
  |_DECIMAL(31,s)_|
>
_____|_SECURED_____>
  |_TIME FORMAT ISO___||_NOT SECURED_|

```



```

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_BUSINESS TIMESENSITIVE NO ___I   I_SYSTEM TIMESENSITIVE YES_
  _ARCHIVE SENSITIVE YES___
> |_____|
>< I_ARCHIVE SENSITIVE NO ___I   I_APPLCOMPAT_compatibility-level_I

```

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 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-

```





method-name

```
< _____  
| _____ |__class-id__ . _____ method-id _____ |  
|_package-id_ . _____ | _____ |  
|_/_____|
```

method-signature

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

## CREATE FUNCTION(external table)

```
>> __CREATE FUNCTION__ function-name _____ >  
> __ ( _____ ) _____ >  
| < , _____ |  
|__parameter-declaration_|_|  
| _____ < , _____ > |  
> __ RETURNS TABLE ( _____ column-name data-type _____ ) option-list >< |  
|_AS LOCATOR_| | | __GENERIC TABLE _____ | 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)_ _____
```

```

I_UNICODE_I I
I__GRAPHIC_I _____ I
_____ I I I I (__integer__) _____ I I I CCSID_ASCII_____ I I I
I_VARGRAPHIC__(__integer__) _____ I I EBCDIC_____ I I I I
__(1M) _____ I_UNICODE_____ I I I I_DBCLOB_I _____ I I I
I_(integer) _____ I I I __(1) _____ I I
I_BINARY_I _____ I
_____ I I I I_(integer)_____ I I I I I_BINARY VARYING
_(integer) _____ I I I I I_VARBINARY_____ I I I I I
_(1M) _____ I I I I_BINARY LARGE
OBJECT_____ I _____ I _____ I I I I_BLOB _____ I
I_(__integer_____ ) _____ I I I I_K_I I I I I_M_I I I I I_G_I I I
I__DATE_____
_____ I I I TIME_____ I I I I __(6) _____ WITHOUT TIME ZONE_ I I I
I_TIMESTAMP_I _____ I _____ I _____ I _____ I _____ I
_____ I I I I_(integer)_I I I WITH TIME ZONE_____ I I I
I_ROWID_____
_____ I option-list:
>> _____ >
I_SPECIFIC_specific-name_I I < _____ I
I_PARAMETER CCSID_ASCII_____ I I I I EBCDIC_____ I I I I_UNICODE_I I I
I_VARCHAR_NULTERM_____ I I_STRUCTURE_I
> _EXTERNAL_____ LANGUAGE_____ ASSEMBLE_____ >
I_NAME_____ 'string' _____ I I_C_____ I
I_identifier_I _____ I_COBOL_____ I
I_PLI_____ I
I_PARAMETER STYLE DB2SQL_____ NOT DETERMINISTIC_____ FENCED_____
> I _____ I I _____ I _____ I _____ I _____ >
I_DETERMINISTIC_____ I
I_RETURNS NULL ON NULL INPUT_____ READS SQL DATA_____
> I _____ I _____ I _____ I _____ I _____ >
I_CALLED ON NULL INPUT_____ I_NO SQL_____ I
I_CONTAINS SQL_____ I
I_EXTERNAL ACTION_____ NO SCRATCHPAD_____
> I _____ I _____ I _____ I _____ I _____ >
I_NO EXTERNAL ACTION_I I _____ I_100_____ I
I_SCRATCHPAD_____ I _____ I I
I_length_I
I_NO PACKAGE PATH_____
> I _____ I _____ I _____ I _____ I _____ >
I_PACKAGE PATH package-path_I
I_NO FINAL CALL_____ NODBINFO_____
> I _____ I _____ I _____ I _____ I _____ >
I_FINAL CALL_____ I_DISALLOW PARALLEL_I I_DBINFO_____ I
I_NO COLLID_____
> I _____ I _____ I _____ I _____ I _____ >
I_COLLID_collection-id_I I_WLM ENVIRONMENT_____ name_____ I

```

```

I_(__name__)_I
> _____>
I_CARDINALITY_integer__I
  _ASUTIME NO LIMIT_____ _STAY RESIDENT NO__
> |_____|_|_____|_____>
I_ASUTIME__LIMIT__integer_| I_STAY RESIDENT YES_|
  _PROGRAM TYPE SUB_____ _SECURITY DB2_____
> |_____|_|_____|_____>
I_PROGRAM TYPE MAIN_| I_SECURITY_____USER_____I
                                     I_DEFINER_|
  _STOP AFTER SYSTEM DEFAULT FAILURES_____
> |_____|_____>
I_STOP AFTER integer FAILURES_____I
I_CONTINUE AFTER FAILURE_____I
> _____>
I_RUN OPTIONS__run-time-options_|
  _INHERIT SPECIAL REGISTERS_____ _STATIC DISPATCH_
> |_____|_|_____|_____|_____><
I_DEFAULT SPECIAL REGISTERS_| _NOT SECURED_____
> |_____|_____><
I_SECURED_____I

```

## CREATE FUNCTION (sourced)

```

>> __CREATE FUNCTION__function-name_____>
> __(_______)_____>
  | < , _____ | |__parameter-declaration_|_I
> __RETURNS__data-type2_____>
  I_AS LOCATOR_____I

> _____>
  I_SPECIFIC__specific-name_| I_PARAMETER CCSID__ _ASCII_____I
                                     I_EBCDIC_____|
                                     I_UNICODE_____|
> __SOURCE__function-name_____><
I_SPECIFIC__specific-name_____I
  I_function-name__(_____)_|
                                     | < , _____ | |__parameter-type_|_I
parameter-declaration: >> _____parameter-
type_____>< I_parameter-name_| parameter-type:
>> __data-type_____>< I
I_AS LOCATOR_____I | I_TABLE LIKE__table-name_ __AS LOCATOR_| I_view-
name_| data-type: >> _____built-in-data-
type_____>< I_distinct-type-name_|
built-in-data-type:

```



```

| |
| | ____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_____| |
| |_____ |

```





```

__(1M)_____ |_UNICODE_| | | |_DBCLOB_|_____ | | |
|_(integer)_____ | | | |(1)_____ | | |
|_BINARY_|_____ |_____
| | | |_(integer)_| | | | | |_BINARY VARYING
_(integer)_____ | | | | |_VARBINARY_____ | | | | |
_(1M)_____ | | | | |_BINARY LARGE
OBJECT_____ |_____ |_____ | | | |_BLOB_____ |
|_(integer)_____ )_____ | | | |_K_| | | | |_M_| | | | |_G_| | |
|_DATE_____
| | | |_TIME_____ | | | | |_(6)_____ |_WITHOUT TIME ZONE_| | |
|_TIMESTAMP_|_____ |_____ |_____ |_____
| | | |_(integer_)_| | | | |_WITH TIME ZONE_____ | | |
|_ROWID_____
|_____ | SQL-control-body: >>_SQL-control-
statement_____ >

```

option-list:

```

> _____ >
|_SPECIFIC specific-name_____ |

```

```

> _____ EXTERNAL ACTION _____ >
|_DETERMINISTIC_____ | |_NO EXTERNAL ACTION_|
> _____ CALLED ON NULL INPUT _____ >
|_CONTAINS SQL_____ |
> _____ SECURED _____ STATIC DISPATCH _____ >
|_PARAMETER CCSID EBCDIC_| |_NOT SECURED_|
|_PARAMETER CCSID UNICODE_|

```

SQL-routine-body:

```

>>_RETURN statement_____ >

```

</\_>

## CREATE FUNCTION (SQL Table)

```

>_CREATE FUNCTION_function-name_(_____ )_>
|_____ |
|_____ |_____ |
|_parameter-declaration_|
|_____ |_____ |
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_| | | | |
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_____>
```

```

    I_DETERMINISTIC_____I    I_NO EXTERNAL ACTION_I
> _____READS SQL DATA_____CALLED ON NULL INPUT_____>
    I_CONTAINS SQL_____I
> _____INHERIT SPECIAL REGISTERS__STATIC DISPATCH_____>
                                                I_CARDINALITY int_I
> _____SECURED_____PARAMETER CCSID_____>
    I_NOT SECURED_I                I_ASCII____I
                                    I_EBCDIC____I
                                    I_UNICODE____I

```

SQL-routine-body:

```

>>_RETURN statement_____>>
I_BEGIN ATOMIC RETURN statement_END_I

```

## CREATE GLOBAL TEMPORARY TABLE

```

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

```

column-spec:

```

>>__column-name_data-type_____>
                I_NOT NULL_I

```

data-type:

```

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

```

built-in-data-type:

```

>_SMALLINT_____
_____>< I I_INTEGER_I
|
| I I_INT_I I
|
| I I_BIGINT_I
|
| _____(5,0)_____
|
| I_DECIMAL_____|_____I_____
|_____I_____
| I I_DEC_____| I_(__integer_____)_I

```





# CREATE INDEX

```
>> CREATE INDEX index-name ON table-name
    I_UNIQUE I
    I_WHERE NOT NULL I
    < , > ASC I > table-
name ( column-name I I I
    I I_key-expression I I_DESC I I
    I I_RANDOM I I
    I_aux-table-name I
> )
I __, __ BUSINESS TIME WITHOUT OVERLAPS I
    I_WITH OVERLAPS I
< >>
I >
I_XML index-specs I I_INCLUDE(column-name) I I NOT CLUSTER I I
    I I_CLUSTER I I
    I_PARTITIONED I
    I_NOT PADDED I
    I I_PADDED I I
    I_free-block I
    I_using-block I
    I_gbpcache-block I
    I_YES I
    I_DEFINE I_NO I I
    I_YES I
    I_COMPRESS I_NO I I
    I_INCLUDE NULL KEYS I
    I I I
    I I_EXCLUDE NULL KEYS I I
>
I < , > I
I RANGE I I
I_PARTITION BY I I_partition-element I I ) I
    I_using-block I
    I_free-block I
    I_gbpcache-block I
    I_DSSIZE_int_G I
<
> I
< I_BUFFERPOOL_bpname I I_YES I I_CLOSE I_NO I I
I_NO I I_DEFER I_YES I I_NO I I_COPY I_YES I I
I_DSSIZE_integer G I I_PIECESIZE_integer K I I_M I I_G I XML-
index-specification: >> GENERATE KEY USING XMLPATTERN xml-pattern-
clause AS sql-data-type >< I_GENERATE KEYS USING I XML-pattern-clause:
>> pattern-expression ><
```

|\_ proglog \_|

prolog:

```

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

```

Forward-axis:

```

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

```

SQL-data-type:

```

>> __SQL__VARCHAR__(integer) _____ ><
|_(34)_ | | _DECFLOAT_ | _____ | _____ | | _DATE_ _____ | | |(12)_ |
|_TIMESTAMP_ | _____ | _____ | using-block:
>> __USING _____ >
> ____VCAT__catalog-name _____ >< |
< _____ |
|_STOGRROUP__stogroup-name _____ | _____ |
| _____ |
|_PRIQTY__|_integer_|_ |
|_SECQTY__integer_____ |
| _____ |
|_ERASE__|_YES_| _____ |

```

free-block:

```

< _____ _0_____ |
>> _____ FREEPAGE__|_integer_| _____ | _____ >< |
|_10_____ | | _PCTFREE__|_integer_| _____ | gbpcache-block: _CHANGED_
>> __GBPCACHE__|_ALL_____ | _____ ><
|_NONE_____ |

```

partition-element:





```

|_____|
| | | | (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 _____ |
>> | _____ | _____ >
|_ DYNAMIC_ RESULT_ SET_ integer_ |
> _____ >
|_ PARAMETER _____ CCSID_ ASII _____ |
| | | | | EBCDIC_ _____ | |
| | | | | UNICODE_ _____ | |
|_ VARCHAR _____ NULTERM _____ |
| | | | | STRUCTURE _____ |
> _EXTERNAL _____ LANGUAGE _____ ASSEMBLE _____ >
|_ NAME _____ 'string' _____ | | C _____ | | |
|_ identifier_ _____ | | COBOL _____ |
| | | | | JAVA _____ |
| | | | | PLI _____ |
| | | | | REXX _____ |
|_ PARAMETER STYLE SQL _____
> | _____ | _____ >

```



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_) _____ |
```





```

|_____|
| | | |_(16)_ | | | |_(53)_____ | | | | | | | | | |
|__ FLOAT__ |_____ |
| | | | |_(integer_) | | | |_ REAL_____ | | | |
|_ PRECISION_ | | | |_ DOUBLE_ |_____ | | | | |_(1)_____ |
|_____ CHARACTER_____ |_____ |
| | | | |_ CHAR_____ | |_(length_)_____ | | | |_ CCSID_ ASCII_ |
|_ FOR_ SBCS_ DATA_ | | | | | |_ CHARACTER_ VARYING_ (length_)_ |
|_ EBCDIC_ | |_ MIXED_ | | | | | |_ CHAR_____ | | | |_ UNICODE_ | | | | |
|_ VARCHAR_____ | | | | | |_(1M)_____ | | | | |_ CHARACTER_ LARGE
OBJECT_ |_____ | | | | |
|_ CHAR_____ | |_(integer_) | |_ CCSID_ ASCII_ | |_ FOR_ SBCS_ DATA_ | | |
|_ CLOB_____ | |_ EBCDIC_ | |_ MIXED_ | | | |_(1)_____
|_ UNICODE_ | | | | | | | | | | |
|_ GRAPHIC_ |_____ |
| | | | |_(integer_)_____ | | | |_ CCSID_ ASCII_ | | |
|_ VARGRAPHIC_ (integer)_____ | |_ EBCDIC_ | | | |
|_(1M)_____ |_ UNICODE_ | | | | |_ DBCLOB_ |_____ | | |
|_(integer)_____ | | | |_(1)_____ | |
|_ BINARY_ |_____ |
| | | | |_(integer)_____ | | | | |_ BINARY VARYING
_(integer)_____ | | | | |_ VARBINARY_____ | | | | |
|_(1M)_____ | | | | |_ BINARY LARGE
OBJECT_____ |_____ |_____ | | | | |_ BLOB_____ |
|_(integer)_____ | | | | |_ K_ | | | | |_ M_ | | | | |_ G_ | |
|_ DATE_____
| | | |_ TIME_____ | | | | |_(6_)_____ |_ WITHOUT TIME ZONE_ | |
|_ TIMESTAMP_ |_____ |_____ |_____ |
| | | |_(integer)_____ | |_ WITH TIME ZONE_____ | |
|_ XML_____
| option-list: _NOT DETERMINISTIC_ _MODIFIES SQL DATA_ >>_
|_____ |_____ |_____ |_____ >
|_ DETERMINISTIC_____ | |_ READS SQL DATA_____ |
| | | | |_ CONTAINS SQL_____ |
|_ CALLED ON NULL INPUT_ | |_ DYNAMIC RESULT SETS 0_____
> |_____ |_____ |_____ |_____ >
| | | | |_ DYNAMIC RESULT SETS_ integer_ |
>
|_ DISALLOW DEBUG MODE_ | |_ PARAMETER CCSID ASCII_ |
|_ ALLOW DEBUG MODE_____ | |_ PARAMETER CCSID EBCDIC_ |
|_ DISABLE DEBUG MODE_ | |_ PARAMETER CCSID UNICODE_ |
>
|_ QUALIFIER_ schema_name_ |
>
|_ PACKAGE OWNER_ authorization_name_ |
|_ ASUTIME NO LIMIT_____ | |_ COMMIT ON RETURN NO_____
> |_____ |_____ |_____ |_____ >

```

```

I_ASUTIME LIMIT__integer_| I_COMMIT ON RETURN YES_|
I_AUTONOMOUS_____I
  _INHERIT SPECIAL REGISTERS_
> |_____|_____>
I_DEFAULT SPECIAL REGISTERS_|
  _STOP AFTER SYSTEM DEFAULT FAILURES_
> |_____|_____>
I_STOP AFTER__integer__FAILURES_____|
I_CONTINUE AFTER FAILURE_____I
> _____>
I_WLM ENVIRONMENT FOR DEBUG MODE__name_|
  _____CURRENT DATA NO____DEGREE 1____
> _____|_____|_____|_____>
I_DEFER PREPARE_____| I_CURRENT DATA YES_| I_DEGREE ANY_|
I_NODEFER PREPARE_|
> _____CONCURRENT ACCESS RESOLUTION USE CURRENTLY COMMITTED_____|
  I_CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME_____I
  _____DYNAMICRULES RUN_____
> |_____|_____>
I_DYNAMICRULES BIND_____|
I_DYNAMICRULES DEFINEBIND_|
I_DYNAMICRULES DEFINERUN_____|
I_DYNAMICRULES INVOKEBIND_|
I_DYNAMICRULES INVOKERUN_____|
> _____>
I_APPLICATION ENCODING SCHEME ASCII_____|
I_APPLICATION ENCODING SCHEME EBCDIC_____|
I_APPLICATION ENCODING SCHEME UNICODE_|
  _____WITHOUT EXPLAIN____WITHOUT IMMEDIATE WRITE____
> |_____|_____|_____>
I_WITH EXPLAIN_____| I_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_____|

```



```
> _____>
|_QUERY ACCELERATION NONE_____ | |_GET_ACCEL_ARCHIVE NO___|
|_QUERY ACCELERATION ENABLE_____ | |_GET_ACCEL_ARCHIVE YES___|
|_QUERY ACCELERATION ENABLE WITH FAILBACK_|
|_QUERY ACCELERATION ELIGIBLE_____ |
|_QUERY ACCELERATION ALL_____ |
```

```
> _____>
|_RELEASE AT COMMIT_____ | |_REOPT NONE_____ |
|_RELEASE AT DEALLOCATE___| |_REOPT ALWAYS___|
|_REOPT ONCE_____ |
```

```
> _____>
|_VALIDATE RUN_____ |
|_VALIDATE BIND_ | |_ROUNDING DEC_ROUND_CEILING___|
|_ROUNDING DEC_ROUND_DOWN_____ |
|_ROUNDING DEC_ROUND_FLOOR_____ |
|_ROUNDING DEC_ROUND_HALF_DOWN___|
|_ROUNDING DEC_ROUND_HALF_EVEN___|
|_ROUNDING DEC_ROUND_HALF_UP___ |
|_ROUNDING DEC_ROUND_UP_____ |
```

```
> _____>
|_DATE FORMAT ISO___ | |_DECIMAL(15)___ |
|_DATE FORMAT EUR___ | |_DECIMAL(31)___ |
|_DATE FORMAT USA___ | |_DECIMAL(15,s)_ |
|_DATE FORMAT JIS___ | |_DECIMAL(31,s)_ |
|_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_____I_>< I
_I_INTEGER__ I |_AS_|_data-type_|_____ I |_START WITH_|_numeric-
constant_____ I |_INCREMENT BY 1_____ I
I_|_____ I | | |_INCREMENT BY_|_numeric-constant_| | |
_I_NO MINVALUE_____ I | | |_____ I |_____ I |
I_|_MINVALUE_|_numeric-constant_| | | |_NO MAXVALUE_____ I
I_|_____ I |_____ I | | |_MAXVALUE_|_numeric-constant_| | |
_I_NO CYCLE_| | | |_____ I | | |_CYCLE_| | | |_CACHE
20_____ I | | |_____ I |_____ I | | |_NO
CACHE_____ I | | | |_CACHE_|_integer-constant_| | | |_NO ORDER_|
I | | |_____ I |_____ I | |_ORDER_|_data-type: >>_built-in-
type_____>
I_|_distinct-type-name_|
```

built-in-type:

```
>_SMALLINT_____><
I | |_INTEGER_| |
I | | |_INT_| | |
I | |_BIGINT_| | |
I |_____ (5,0)_____ |
I_|_DECIMAL_|_____ I |
I_|_DEC_| | |_(|_integer_|_____ )_|
I_|_numeric_| | |_____ I |,integer_|
```

# CREATE STOGROUP

```
<_ , _____>>_CREATE
STOGROUP__stogroup-name__VOLUMES(____volume-id|_____)____>
I |_____ </_><_ , ___ I
I |_____ '*'_|_____ I >_VCAT__catalog-
name_____>
>_____><
I_|_DATACLASdc-name_| | |_MGMTCLASmc-name_| | |_STORCLASsc-name_|
```

# CREATE TABLE

```
>>_CREATE TABLE__table-name_____>
<_ , _____>_(____column-
definition_____ I |_____)_____>
I | |_period-definition_____ I |
I | |_unique-constraint_____ I |
I | |_referential-constraint_| |
```



I\_PAGENUM ABSOLUTE\_I

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_| _____ |

```





I\_NOT ENFORCED\_ | check-constraint:

>> \_\_\_\_\_ CHECK\_ (check-condition) \_\_\_\_\_ ><  
I\_CONSTRAINT\_ constraint-name\_ | as-result-table:  
>> \_\_\_\_\_ AS\_ (fullselect)\_ WITH NO DATA \_\_\_\_\_ >< |  
<\_, \_\_\_\_\_ |  
I\_ (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_)_I___I_____I_____>
                                I_HASH SPACE_integer_K___I
                                    I_M_I
                                    I_G_I

```

materialized-query-definition:

```

>> _____ AS_(fullselect)_____>
    I </_><_ , _____ I I_(____column-name_I_)_I >_
_____>> I_
refreshable-table-options_____I refreshable-table-options: >>_DATA INITIALLY
DEFERRED__REFRESH DEFERRED_____>
    <_____>_____
_____>> I_
_MANTAINED BY SYSTEM_          I
    I_I_____I_____I
    I I_MANTAINED BY USER____I    I
    I _ENABLE QUERY OPTIMIZATION__I I
    I_I_____I_I
    I_DISABLE QUERY OPTIMIZATION_

```

## CREATE TABLESPACE

```

>> __CREATE_____TABLESPACE__table-space-name_____>
    I_LOB_I          I _____DSNDB04_____ I
                    I_IN_I_database-name_I_I
<_____>_____I_____
_____>
    I_using-block_____I          I_DSSIZE__integer__G_I
    I_free-block_____I
    I_gbpcache-block__I
    I_trackmod-block__I
    I _____YES__ I
    I_DEFINE__I_NO__I_I
    I _LOGGED_____I
    I_I_____I_I
    I_NOT LOGGED_I
<_____>_____
_____I__>> I_partition-by-growth-specifications_I
I_BUFFERPOOL__bpname_____I I_partition-by-range-specifications__I I
I_ANY_____I I_SEGSIZE integer_____I
I_LOCKSIZE__I_TABLESPACE_I_I I_I_TABLE_____I I I_I_PAGE_____I I I
I_ROW_____I I I_I_LOB_____I I I_I_LOCKMAX__SYSTEM_____I I
I_integer_I I I_I_YES_ I I_CLOSE__I_NO__I_____I I_I_NO__I
I_COMPRESS__I_YES_I_____I I_CCSDID__ASCII_____I I I_EBCDIC__I I I
I_UNICODE_I I I_I_MAXROWS__integer_____I I_I_SEGSIZE_integer_____I

```



```

| _____ | | _PAGENUM RELATIVE_ | | _PAGENUM ABSOLUTE_ | using-
block:
>> _USING_____>
> ___VCAT__catalog-
name _____>< |
< _____ |
|_STOGRUP__stogroup-name_____ | _____ |
|_PRIQTY__integer_|
|_SECQTY__integer_|
| _____NO_____|
|_ERASE__|_YES_|_|

```

free-block:

```

< _____ _0_____
>> ___FREEPAGE__|_integer_|_____|_____>
< | _5_____ | | _PCTFREE__|_integer_|__| gbpcache-block: _CHANGED_
>> _GBPCACHE__|_ALL_____|_____><
|_SYSTEM__| |_NONE_____| trackmod-block: _YES_
>> _TRACKMOD__|_NO__|_____><

```

partition-by-growth-specification:

```

< _____>
> _MAXPARTITIONS__integer_____ | _____><
|_MEMBER CLUSTER_____ |
|_NUMPARTS integer_____ |
|_ALLOW MULTIPLE TABLES NO_ |
|_|_____ | |
|_____ |
|_ALLOW MUTLIPL E TABLES YES_|

```

partition-by-range-specification:

```

< _____>
> _____ |>
| _____< _____ |
|_NUMPARTS__integer_____ | _____ | | | |
| | <_, _____ ||_MEMBER CLUSTER_| |
| | _____ | | |
| | (_PARTITION_integer__using-block_|_|_)_| |
| | _____ | |
| | _____ | |
| | _____ | |
| | _____NO_____| |
| | _____YES_|_| |
| | _____integer_G_____| |
|_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_|____|_correlation-name_____|_____| |_AS_| |
|_NEW_|____|_correlation-name_____| |_AS_| | |_OLD
TABLE_____|____|_identifier_| | |_AS_| | |_NEW TABLE_____|____|_identifier_|
> _FOR EACH ROW_____MODE DB2SQL__NOT SECURED__triggered-action____>>
|_FOR EACH STATEMENT_| |_SECURED_____| triggered-action:
>>_____SQL trigger body_____>
  |_WHEN__(__search-condition__)_|
```

SQL-trigger-body:

```

> _____SQL-control-statement_____>>
|_trigger-SQL-statement_| option-list: >__DISALLOW DEBUG
MODE_____APPLICATION ENCODING SCHEME ASCII_____>
  |_ALLOW DEBUG MODE_____| |_APPLICATION ENCODING SCHEME EBCDIC_|
  |_DISABLE DEBUG MODE_| |_APPLICATION ENCODING SCHEME UNICODE_|
> _QUALIFIER schema-name__ ASUTIME_NO LIMIT_____>
      |_ASUTIME LIMIT_int_|

> _____>
  |_WLM ENVIRONMENT FOR DEBUG MODE name_|

> _CURRENT DATA NO_____CONCURRENT ACCESS RESOLUTION USE CURRENTLY COMMITTED_>
  |_CURRENT DATA YES_| |_CONCURRENT ACCESS RESOLUTION WAIT FOR OUTCOME_____|

> _DYNAMICRULES RUN_____WITHOUT IMMEDIATE WRITE_____>
  |_DYNAMICRULES BIND_____|   |_WITH IMMEDIATE WRITE_____|

> _WITHOUT EXPLAIN_____ISOLATION LEVEL CS_____OPHINT__' '_____>
  |_WITH EXPLAIN_____| |_ISOLATION LEVEL RS_|   |_OPHINT_string-constant_|
      |_ISOLATION LEVEL RR_|
      |_ISOLATION LEVEL UR_|
      < ,_____ >_SQL PATH__schema-name|_____RELEASE AT
```

```

COMMIT_____>
      |_SCHEMA PATH_| |_RELEASE AT DEALLOCATE_|
      |_SESSION USER_|
      |_USER_|
>
|_ROUNDING DEC_ROUND_CEILING_| |_DATE FORMAT ISO_| |
|_ROUNDING DEC_ROUND_DOWN_| |_DATE FORMAT EUR_| |
|_ROUNDING DEC_ROUND_FLOOR_| |_DATE FORMAT USA_| |
|_ROUNDING DEC_ROUND_HALF_DOWN_| |_DATE FORMAT JIS_| |
|_ROUNDING DEC_ROUND_HALF_EVEN_| |_DATE FORMAT LOCAL_| |
|_ROUNDING DEC_ROUND_HALF_UP_| |
|_ROUNDING DEC_ROUND_UP_| |
>
_____FOR UPDATE CLAUSE REQUIRED_____>
      |_DECIMAL(15)_| |_FOR UPDATE CLAUSE OPTIONAL_|
      |_DECIMAL(31)_| |
      |_DECIMAL(15,s)_| |
      |_DECIMAL(31,s)_| |
>
|_TIME FORMAT ISO_| |_NOT SECURED_|
|_TIME FORMAT EUR_| |_SECURED_|
|_TIME FORMAT USA_|
|_TIME FORMAT JIS_|
|_TIME FORMAT LOCAL_|
>
|_SYSTEMSENSITIVE( |_NO_| )_| |_BUSTIMESENSITIVE( |_NO_| )_|
>
|_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_|_|
>

```





|\_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)_____  
|
```



```

| |_BLOB_____ | |_(__integer_____)_____|
|
|                                     |_K_|
|
|                                     |_M_|
|
|                                     |_G_|
|
|_DATE_____
|_____
| |_TIME_____ |
|
| |          __(_6_)_____  _WITHOUT TIME ZONE_
|
|_TIMESTAMP_|_____ |_____ |_____
|_____
|          |_(integer_)_| |_WITH TIME ZONE_____|
|
|_ROWID_____
|_____

```

## CREATE VARIABLE

```

>> __CREATE VARIABLE__variable-name_| data-type |_____ >
    __DEFAULT NULL_____
> __ |_____ |_____ | built-in type |_____ >
    |_DEFAULT__constant_____ | _____ |_array-type-name_|
    |_special register_|

```

built-in-type:

```

> __SMALLINT_____
|_____ >< | |_INTEGER_|
|
| | |INT_| |
|
| |_BIGINT_____|
|
|          _____ (5,0) _____
|
|_DECIMAL_____|_____ |_____
|_____
| |_DEC_____| |_(__integer_____)_____|
|
| |_NUMERIC_| _____ |_, integer_|

```



```

|
|          _(34)_
|
|_DECFLOAT_
|_____|
|_____|
|          |(16)|
|
|          _(53)_
|
|_FLOAT_|_____|
|_____|
| |          |_(integer)|
|
|_REAL_|_____|
|
|          _PRECISION_|
|
|_DOUBLE_|_____|
|
|          |(1)|
|
|_____CHARACTER_____|
|_____|
| | | |_CHAR_| |_(length)| | | |_CCSID_ASCII_| |
|_FOR_SBCS_DATA_| | |
| | |_____CHARACTER_VARYING_(length)| | | |_EBCDIC_| | | |_MIXED_|
| |
| | | |_CHAR_| | | | |_UNICODE_|
| |
| | | |_VARCHAR_|
| |
| |
| |          |(1M)|
| |
| |_____CHARACTER_LARGE OBJECT_|
|_____|
| | | |_CHAR_| | | | |_(integer)| | | |_CCSID_ASCII_|
|_FOR_SBCS_DATA_| | |
| | | |_CLOB_| | | | |_EBCDIC_|
|_MIXED_| | |
| |          |(1)| | | | |_UNICODE_|
|
|_GRAPHIC_|_____|
|_____|
| |          |_(integer)| | | | |_CCSID_ASCII_|
|
| | | |_VARGRAPHIC_(integer)| | | | |_EBCDIC_|

```

```

|
| |      __ (1M) _____ |      |_UNICODE_| |
|
| |_DBCLOB_| _____ |
|
| |      |_(integer)_____ |
|
| |      |_(1)_____
|
|_
|_BINARY_| _____ |
|_____ |
| |      |_(integer)___ |      |
|
| |__BINARY VARYING |(integer)_____ |
|
| | |_VARBINARY_____ |      |
|
| |      |_(1M)_____ |      |
|
| |_BINARY LARGE OBJECT_____ | _____ | _____ |
|
| |_BLOB_____ | |_(integer)_____ |
|
|      |_K_|
|
|      |_M_|
|
|      |_G_|
|
|_DATE_____
|_____ |
| |_TIME_____ |
|
| |      |_(6)_____ |_WITHOUT TIME ZONE_|
|
| |_TIMESTAMP_| _____ | _____ |
|_____ |
|      |_(integer)___ | |_WITH TIME ZONE_____ |

```

## CREATE VIEW

```

>> __CREATE VIEW__ view-name_____ >
|      |_<_ , _____ | |_(column-name_|_)_|
> _____ AS fullselect _____ >

```

```

        | <_ , _____ | |_WITH common-table-
expression_|_ |
> _____>> |
_CASCADED_ |
|_WITH_|_ |_CHECK OPTION_|
|_LOCAL_|

```

## DECLARE CURSOR

```

        _NO SCROLL_____
>> __DECLARE__ cursor-name__ | _____ | _____>
| _ASENSITIVE_____ |
| | _____ |_SCROLL_|
|_INSENSITIVE_____ |
| _____DYNAMIC_____ |
|_SENSITIVE_| _____ |__ |
|_STATIC_|
| _____> _CURSOR_____
| _____>
|_holdability_____ |
|_returnability_____ |
|_rowset-positioning_|
> __FOR__ _select-statement_____>>
|_statement-name__| holdability: _WITHOUT HOLD_
>> | _____>>
|_WITH HOLD___| returnability: _WITHOUT RETURN_____
>> | _____>>
|_TO CALLER_| |_WITH RETURN_| _____ |__ | |_TO CLIENT_| rowset-
positioning: _WITHOUT ROWSET POSITIONING_
>> | _____>>
|_WITH ROWSET POSITIONING___|

```

## DECLARE GLOBAL TEMPORARY TABLE

```

>> __DECLARE GLOBAL TEMPORARY TABLE__ table-name_____>
| _____>
spec |_) _____>
|_LIKE__ table-name__| _____ |
| |_view-name_| | |_copy-options_|
|_as-result-table_____ |
| _____>
| _____>>
|_CCSID__ ASCII_____ | | |_EBCDIC_| | | |_UNICODE_|

```





```

_____|><| | _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_____
|_____

```

## DECLARE VARIABLE

```

                                _CCSID EBCDIC__
>>_DECLARE__host-variable|_VARIABLE_|_____><
||_CCSID ASCII__|  |_FOR SCBS DATA__||
                                ||_CCSID UNICODE_|  |_FOR MIXED DATA_||
                                |                    |_FOR BIT DATA__||
                                |_CCSID__integer_____|

```

## DELETE

searched delete:

```

>>__DELETE FROM__table-name_____>
        |_view-name_| |_period-clause_| |_correlation-clause_|
>_____>
        |_include-column_|      |_SET assignment-clause_|
>_____>
        |_WHERE__search-condition_| |_isolation-clause_|
        |_SKIP LOCKED DATA_|
>_____><

```

```

|_QUERYNO__integer_| positioned delete: >>__DELETE FROM__table-
name__WHERE CURRENT OF__cursor-name_____>< |_view-name_|
>_____><

```

```

|_FOR ROW__host-variable_____OF ROWSET_| |_integer-constant_| period-
clause: >>__FOR PORTION OF BUSINESS_TIME_FROM_value1 TO
value2_____>< |_BETWEEN value1 AND value2_| include-column:
>>__INCLUDE__(__column-name__data-type_____)><
data-type: >>__built-in
type_____><

```

```

|_distinct_type_name_| built-in-type:

```

```

>__SMALLINT_____
_____>< | |_INTEGER_|
|
| | |INT_| |
|

```



```

| |_BIGINT___|
|
|           _____(5,0)_____
|
|_DECIMAL___|_____|_____
|_____|
||_DEC_____||_(integer_____)|
|
||_NUMERIC_|           |_, integer_|
|
|           |(34)|
|
|_DECFLOAT_
|_____|_____
|_____|
|           |_(16)|
|
|           |(53)|_____
|
|_FLOAT___|_____|_____
|_____|
| |           |_(integer___)|
|
|_REAL_____|
|
| |           |_PRECISION_|
|
|_DOUBLE___|_____|_|
|
|           |(1)|_____
|
|_____CHARACTER___|_____|_____
|_____|
| | | |_CHAR_____||_(integer___)|| |
|_FOR___BIT___DATA_|
| | |_CHARACTER___VARYING___(integer___)|
|
| | | |_CHAR_____||
|
| | |_VARCHAR_____|
|
|           |(1)|_____
|
|_GRAPHIC_|_____|_____
|_____|
| | |           |_(integer___)||
|

```

```

| I_VARGRAPHIC__(integer)_____I
|
|      (1)_____
|
|
|_
|_BINARY__I_____I_____
|_____I
| I      I_(integer)__I      I
|
| I__BINARY VARYING_(integer)_____I
|
| I I_VARBINARY_____I      I
|
|_DATE_____
|_____I
|_TIME_____I
|      __ (6)_____ _WITHOUT TIME ZONE_ |
|_TIMESTAMP_I_____I_____I_____I_____I
|      I_(integer)_I      I_WITH TIME ZONE____I

```

assignment-clause:

```

<_,_____>>_____column-
name__expression_____I_____>< I
|_NULL_____I      I
|      <_,_____ <_,_____ I I_(column-
name__I_)_(_____expression__I_____)__I I I_NULL_____I I I_row-
fullselect_____I isolation-clause:
>>_WITH__RR_____>
< I_RS_I
      I_CS_I

```

## DESCRIBE CURSOR

```

>>_DESCRIBE CURSOR__cursor-name_____INTO__descriptor-
name_____>< I_host-variable_I

```

## 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_ | | _____ | | _____ | | | | | | | |
| | _DATABASE_ database-name _____ |
| | _TYPE_ _____ distinct-type-name _RESTRICT_ _____ |
| | _FUNCTION_ function-name _____ RESTRICT_ |
| | _____ | | <_, _____ | | | | |
| | ( _____ | | ) | | | | | | _parameter-type_ | | | |
| | _SPECIFIC FUNCTION_ specific-name _____ RESTRICT_ _____ | |
| | _INDEX_ index-name _____ |
| | _MASK_ mask-name _____ |
| | _PACKAGE_ collection-id.package-id _____ | | |
| | _VERSION_ | | | | | _____ | | | | _PERMISSION_ permission-
name _____ | | | | _PROCEDURE_ procedure-
name _RESTRICT_ _____ | | | | _ROLE_ role-
name _RESTRICT_ _____ |
| | _SEQUENCE_ sequence-name _____ |
| | _STOGROUP_ stogroup-name _____ |

```

```

I_SYNONYM__synonym_____|
I_TABLE__table-name_____|
I_TABLESPACE_____table-space-name_____||
I_database-name._|| I_TRIGGER__trigger-
name_____| I_TRUSTED CONTEXT__context-
name_____| I_TYPE__type-
name__RESTRICT_____| I_VIEW__view-
name_____| parameter-type:
>>__data-type_____>>
I_AS LOCATOR__| data-type: >>__built-in-data-
type_____>> I_distinct-type-
name_| I_array-type-name__| built-in-data-type:
>_SMALLINT_____
_____>> I_INTEGER_|
|
| I_INT_| |
|
| I_BIGINT_|
|
| _____(5,0)_____
|
| I_DECIMAL_| _____|
|_____|
| I_DEC_| | I_(integer_____)_|
|
| I_NUMERIC_| _____I_, integer_|
|
| _____(34)_____
|
| I_DECFLOAT_|
|_____|
|_____|
| _____(16)_|
|
| _____(53)_____
|
| I_FLOAT_| _____|
|_____|
| I _____I_(integer_)_|
|
| I_REAL_| _____|
|
| I _____PRECISION_|
|
| I_DOUBLE_| _____|
|
| _____(1)_____

```



```

|
|  |_BLOB_____ |  |_(integer_____)_____|
|
|                                     |_K_|
|
|                                     |_M_|
|
|                                     |_G_|
|
|
|_DATE_____
|_____
|  |_TIME_____ |
|
|  |          |_(6_)_____ |_WITHOUT TIME ZONE_|
|
|
|_TIMESTAMP_|_____ |_____ |_____ |_____
|_____
|          |_(integer_)_|  |_WITH TIME ZONE_____|
|
|_ROWID_____
|_____
|_XML_____
|_____

```

## END DECLARE SECTION

```
>>__END DECLARE SECTION_____>>
```

## EXCHANGE

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

## EXECUTE

```
>>__EXECUTE__statement-name_____>
>_____>>
```

```

|          <_,_____ |
|  |_USING__variable_____ |_____ |
|  |          |_array-variable_|
|  |_USING__DESCRIPTOR__descriptor-name__| |
|  |_source-row-data_____ |

```

source-row-data:

```
<_,_____ >>__USING__ _host-variable-array_
```

```

|_____>
|      |_host-variable_____| |
|_USING DESCRIPTOR__descriptor-name_|
>_____>>
|_FOR__host-variable_____ROWS_|
|_integer-constant_|

```

## EXECUTE IMMEDIATE

```

>>_EXECUTE IMMEDIATE__string-expression_____>>
|_host-variable_____|

```

## EXPLAIN

```

>>_EXPLAIN_____>
>__PLAN_____FOR_sql-statement_____>>
|_ALL_|_SET QUERYNO=integer_| |
|_STMTCACHE__ALL_____||_STMTID__id-
host-variable_____|||_|_integer-constant_|_|_|_STMTTOKEN__
_token-host-variable_|_|_|_string-constant_____||_PACKAGE__package-
specification_____| Package-specification: >>_COLLECTION-
collection-name_____>
>__PACKAGE-package-name_____>>
|_VERSION_version-name| |_COPY_copy-id_|

```

## FETCH

```

>>_FETCH_____fetch-
orientation_____|_____|_____|_FROM_
|_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_____|
```

```

I_DB2_RETURNED_SQLCODE_____I
I_DB2_ROW_NUMBER_____I
I_DB2_SQLERRD_SET_____I
I_DB2_SQLERRD1_____I
I_DB2_SQLERRD2_____I
I_DB2_SQLERRD3_____I
I_DB2_SQLERRD4_____I
I_DB2_SQLERRD5_____I
I_DB2_SQLERRD6_____I
I_DB2_TOKEN_COUNT_____I
I_MESSAGE_TEXT_____I
I_RETURNED_SQLSTATE_____I
I_SERVER_NAME_____I

```

connection-information-item-name:

```

> __DB2_AUTHENTICATION_TYPE_____>
I_DB2_AUTHORIZATION_ID_____I
I_DB2_CONNECTION_STATE_____I
I_DB2_CONNECTION_STATUS_____I
I_DB2_ENCRYPTION_TYPE_____I
I_DB2_SERVER_CLASS_NAME_____I
I_DB2_PRODUCT_ID_____I

```

combined-information:

```

</_><_ , _____
> __host-variable4__ = __ALL__
__STATEMENT_____I_____>< I__CONDITION__ __
_____I
I_CONNECTION_I I_host-variable5_I
I_integer_____I

```

## GRANT

```

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

```

## GRANT (collection privileges)

```

>> __GRANT__ CREATE_____ ON_____ COLLECTION_____collection-id_I_____>
I_PACKADM_I I_IN_I I_*_____I
</_><_ , _____> __TO_____ authorization-

```



```

name__ | _____>< |_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_| _____|
|
| | _____(integer_____)_|
|
| |_REAL_____|
|
| | _____PRECISION_|
|
| |_DOUBLE_| _____|
|
| _____(1)_____
|
| _____CHARACTER_____| _____|
|
| | | |_CHAR_____| |_(integer_____)_| | |_CCSID_ASCII_____|
|_FOR_SBCS____DATA_| | |
| | |_CHARACTER_VARYING_____(integer_____)_| | |_EBCDIC_|

```





```

        </_><_ , _____ >__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_____ |_____ >
        |_ARCHIVE_____ |
        |_BINDADD_____ |
        |_BINDAGENT_____ |
        |_BSDS_____ |
        |_CREATEALIAS_____ |
        |_CREATEDBA_____ |
        |_CREATEDBC_____ |
        |_CREATESG_____ |
        |_CREATETMTAB_____ |
        |_CREATE_SECURE_OBJECT_____ |
        |_DATAACCESS_____ |
        |_____ WITH ACCESSCTRL_____ WITH DATAACCESS_____ |
        |_DBADM_|_____ ||_____ | |
        |_____ |_WITHOUT ACCESSCTRL__ | |_WITHOUT DATAACCESS__ | |
        |_DEBUGSESSION_____ |

```

```

I_DISPLAY_____|
I_EXPLAIN_____|
I_MONITOR1_____|
I_MONITOR2_____|
I_RECOVER_____|
I_SQLADM_____|
I_STOPALL_____|
I_STOSPACE_____|
I_SYSADM_____|
I_SYSCTRL_____|
I_SYSOPR_____|
I_TRACE_____|

```

```

> _____>
I_ON SYSTEM_I

```

```

name__|_____>_TO_____authorization-
I_WITH GRANT OPTION_I
I_ROLE_role-name_____|

```

## GRANT (table or view privileges)

```

>> GRANT ALL_I_____|_____
>

```

```

I <_ , _____ |
I ALTER_____|_I
I_DELETE_____|
I_INDEX_____|
I_INSERT_____|
I_SELECT_____|
I_REFERENCES_____|
I_____I <_ , _____ |
I_____I(____column-name_I_)_|
I_TRIGGER_____|
I_UPDATE_____|
I_____I <_ , _____ |
I_____I(____column-name_I_)_|

```

```

name__|_____>_ON_I_____|_____table-
I_view-name_|
I_____I_____>_TO_____authorization-
I_PUBLIC_____|_____><
I_ROLE_role-name_____|

```



## GRANT (type or JAR privileges)

```
>> GRANT USAGE ON TYPE type-
name | _____ >
| _____ |
| JAR jar-name | _____ |
| _____ |
| _____ | > TO authorization-
name | _____ >< | PUBLIC _____ |
| ROLE role-name _____ |
```

## GRANT (variable privileges)

```
>> GRANT ALL PRIVILEGES
| _____ | ON VARIABLE variable-name _____ >
| _____ |
| READ | _____ |
| WRITE | _____ |
| _____ | > TO authorization-
name | _____ >< | PUBLIC _____ |
| WITH GRANT OPTION |
| ROLE role-name _____ |
```

## GRANT (use privileges)

```
>> GRANT USE OF _____ >
| _____ |
| ALL BUFFERPOOLS _____ |
| _____ |
| STOGROUP stogroup-name. | _____ |
| _____ |
| TABLESPACE _____ table-space-name | _____ |
| _____ |
| _____ | > TO authorization-
name | _____ >< | PUBLIC _____ |
| WITH GRANT OPTION |
| ROLE role-name _____ |
```

## HOLD LOCATOR

```
>> HOLD
LOCATOR host_variable | _____ ><
```

# INCLUDE

```
>> __INCLUDE__ SQLCA _____>>
|_SQLDA_____|
|_member-name_|
```

# INSERT

```
>> __INSERT INTO__ table-name _____>
|_view-name_| | <_, _____ | |_(__column-
name_|__)|
> _____>
|_include-column_| |_OVERRIDING USER VALUE_|

> __VALUES__ expression _____>>
| | |_DEFAULT__| | |
| | |_NULL_____| | |
| | <_, _____ | |
| |_(__expression_|_)_| |
| |_DEFAULT__| | |
| |_NULL_____| | |
| <_, _____ | |
|_WITH common-table-expression_| _____|
|_fullselect_____|
| |_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_)_| | _____ WITH
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_____ >< | | _____ | _____ view-name_____ | _____ |
| | _____ ALIAS_____ alias-name_____ | _____ |
| | _____ COLUMN_____ table-name.column-name_____ | _____ |
| _____ | _____ view-name.column-name_____ | _____ |
| _____ <_ , _____ | _____ |
| _____ table-name(_____ column-name_____ IS_string-constant_| _____)_____ |
| _____ view-name_____ |

```





```

| |      |_(integer)_| |
|
| |__BINARY VARYING _(integer)_____|
|
| | |__VARBINARY_____| |
|
|__DATE_____
|_____
|__TIME_____
|
|      __(_6_)_____ |__WITHOUT TIME ZONE_|
|__TIMESTAMP_|_____ |_____ |_____ |_____
|      |_(integer)_| |__WITH TIME ZONE_____|

```

source-table:

```

          _AS_          <,_
>>_(VALUES__values-single-row____) |__|_correlation-name_( _column-name_|_)><
|_values-multiple-row_|_values-single-row:
>>__expression_____><
| |__NULL_____| |
| <,_ _____ | |_(expression_____|_) | |__NULL_____|
values-multiple-row: >>__expression_____FOR__host-
variable_____ROWS____>< | |_host-variable-array_| |
|_integer-constant_|
| |__NULL_____| |
| <,_ _____ | |_(expression_____|_) |
|__NULL_____| | |_host-variable-array_|_matching-condition:
>>_____MATCHED_____><
|__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_____| |
| _____ | | |__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\_\_\_\_\_ |  
| \_\_\_\_\_ |  
| \_\_\_\_\_ |  
| \_\_\_\_\_ |  
| \_\_\_\_\_ |  
| \_\_\_\_\_ |  
> \_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_
name_____SAVEPOINT__svpt-
_____><

```

## RELEASE (connection)

```

>>__RELEASE____location-name_
_____>< |_host-variable_|
    |_CURRENT_____||
    |_____SQL_____|
    |_ALL_|_____|_____|

```



# RENAME

```

      _TABLE_
>> __RENAME__ |_____| _source-table-name__TO__new-table-identifier____><
|_INDEX__source-table-name__TO__new-index-identifier__|

```

# REVOKE

```

>> __REVOKE__ authorization-specfication_____ >
      <_ , _____ > __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_____|
> _____>
|_ </_><_ , _____ | |_BY__ authorization-name_|__|
|_ALL_____ | > __INCLUDING DEPENDENT
PRIVILEGES_____>< |_NOT INCLUDING
DEPENDENT PRIVILEGES__|

```

# REVOKE (database privileges)

```

      <_ , _____
>> __REVOKE__ DBADM_____ |_ ON DATABASE__ database-name_|_____ >
      |_DBCTRL_____|
      |_DBMAINT_____|
      |_CREATETAB__|
      |_CREATETS__|

```

```

|_DISPLAYDB_|
|_DROP_|
|_IMAGCOPY_|
|_LOAD_|
|_RECOVERDB_|
|_REORG_|
|_REPAIR_|
|_STARTDB_|
|_STATS_|
|_STOPDB_|

```

```

|_PUBLIC_|
|_ROLE-role-name_|
>
|_BY_| authorization-name_|
|_ALL_| > INCLUDING DEPENDENT
PRIVILEGES >> I_NOT INCLUDING
DEPENDENT PRIVILEGES_|

```

## REVOKE (function or procedure privileges)

```

>> _REVOKE_ EXECUTE_ ON
|_FUNCTION_ function-name_|
|_*_|
|_SPECIFIC FUNCTION_ specific-name_|
|_PROCEDURE_ procedure-name_|
|_*_|
|_FROM_| authorization-
name_| RESTRICT >
|_PUBLIC_| |_BY_| authorization-name_| |_ROLE-
role-name_| |_ROLE-role-name_|
|_ALL_| > INCLUDING DEPENDENT
PRIVILEGES >> I_NOT INCLUDING
DEPENDENT PRIVILEGES_| parameter-type: >> data-
type_| >> I_AS
LOCATOR_| data-type: >> built-in-data-
type_| >> I_distinct-type-
name_| |_array-type-name_| built-in-data-type:

```



```

| |
| | ____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_____
| _____ |

```

## REVOKE (package privileges)

```

>> __REVOKE_____ ALL_____ >
      | <_ , _____ |
      | _____ BIND_____ | |
      | _____ COPY_____ |
      | _____ EXECUTE____ |
      | _____ RUN_____ |
      | _____ <_ , _____ |
> __ON_____ PACKAGE_____ collection-id. __package-id_____ | _____ >
      | _____ PROGRAM_ | _____ | _____ |
      | _____ </_><_ , _____ > __FROM_____ authorization-
name_____ | _____ >
      | _____ PUBLIC_____ |
      | _____ ROLE-role-name_____ |
> _____ >
      | _____ </_><_ , _____ | | _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)

```
>> __REVOKE__ ALL__ _PRIVILEGES_
| _____ | _____>
| <_ , _____ | | ALTER_____ | | | DELETE_____ |
|_INDEX_____ | |_INSERT_____ | |_REFERENCES_| |_SELECT_____ | |_TRIGGER_____ |
|_UPDATE_____ | _TABLE_ >_ ON_ | _____ | _____ table-
name__ | _____>
```

```

                |_view-name_|
</_><_ , _____ > __FROM____ authorization-
name_____ | _____>
        |_PUBLIC_____ |
        |_ROLE_role-name_____ |
> _____>
    | _____ | |_BY_____ authorization-name_|____ |
|_ALL_____ | |_ROLE_role-name_____ | > __INCLUDING
DEPENDENT PRIVILEGES_____>< |_NOT INCLUDING
DEPENDENT PRIVILEGES_|

```

## REVOKE (type or JAR privileges)

```

>> __REVOKE__ USAGE ON _____ TYPE _____
                <_ , _____
                type-name_| _____>
                | _____ </_><_ , _____ |
                |_JAR__jar-name_| _____ |
                <_ , _____ > __FROM____ authorization-
name_____ | _____>
        |_PUBLIC_____ |
        |_ROLE_role-name_____ |
> _____ RESTRICT_____>
    | _____ </_><_ , _____ | |_BY_____ authorization-name_|____ |
|_ALL_____ | > __INCLUDING DEPENDENT
PRIVILEGES_____>< |_NOT INCLUDING DEPENDENT
PRIVILEGES_|

```

## REVOKE (use privileges)

```

>> __REVOKE USE OF _____>
< _____ > __BUFFERPOOL__ bpname_| _____
____>
|_ALL BUFFERPOOLS_____ |
| _____ <_ , _____ |
|_STOGROUP__stogroup-name_| _____ |
| _____ <_ , _____ |
|_TABLESPACE_____ table-space-name_|_ |
                |_database-name_|
                <_ , _____ > __FROM____ authorization-
name_____ | _____>
        |_PUBLIC_____ |
        |_ROLE_role-name_____ |
> _____>

```



```

    | </_><_ , _____ | |_BY_____ authorization-name_|_|
|_ALL_____ | |_ROLE_role-name_____ | >__ INCLUDING DEPENDENT
PRIVILEGES_____ >< |_NOT INCLUDING
DEPENDENT PRIVILEGES_|

```

## REVOKE (variable privileges)

```

_____PRIVILEGES_
>>_REVOKE_____ALL_____ | _____ | _ON_VARIABLE_ variable-name _____ >
    | <_ , _____ |
    | _____READ_____ | _____ |
    | _____WRITE_____ |
_____ <_ , _____ >_FROM_____ authorization-
name_| _____ RESTRICT_>< |_PUBLIC_____ |
|_BY_____ |
    |_ROLE_role-play_____ | | <_ , _____ |
    | _____ authorization-name_|_|
    | _____ROLE_role-name_____ |
    | _____ALL_____ |

```

## ROLLBACK

```

_____WORK_
>>_ROLLBACK_| _____ | _____ >
< |_TO SAVEPOINT_____ |
    | _____ |
    |_svpt-name_|

```

## SAVEPOINT

```

>>_SAVEPOINT_ svpt-name _____ >
    | _____ |
    |_UNIQUE_| _ON ROLLBACK RETAIN LOCKS_
>_ON ROLLBACK RETAIN
CURSORS _____ | _____ | _____ ><

```

## SELECT INTO

```

_____ >
    | _____ |
    |_WITH_ common-table-expression_|_|
    | _____ >_select-clause_ INTO _____ target-
variable_|_from-clause_____ >
    | _____ |
    |_where-clause_|

```

```

> _____>
|_group-by-clause_| |_having-clause_| |_order-by-clause_|
|<_,_____
> _____>
|_SKIP_LOCKED_DATA_| |_QUERYNO__integer_|
|_WITH__RR_|
|_RS_|
|_CS_|
|_UR_|
> _____>> |
|_1_| |_FETCH FIRST_| |__| |__ROW__ ONLY_| |_ROWS_| target-variable:
> ___global-variable-name_____>>
|_host-variable-name_____|
|_SQL-parameter-name_____|
|_SQL-variable-name_____|
|_transition-variable-name_|

```

## SET CONNECTION

```

>> ___SET CONNECTION___location-name_____>>
|_host-variable_____|

```

## SET assignment statement

```

>> ___SET ___assignment-clause_____>>
assignment-clause:
|_array-variable-name__(_array-index_)_-___expression_____|
|_| |_NULL_____||
|<_,_____|
|_target-variable_____expression_____|| | |
|_| |_NULL_____||
|_| |_DEFAULT_____|
|<_,_____||
|_(_target-variable_|)-_(_____expression_____)|_||
|_| |_NULL_____||
|_| |_DEFAULT_____|
|_row subselect_____||
|_VALUES___expression_____||
|_| |_NULL_____||
|_| |_DEFAULT_____|
|<_,_____||
|_(_expression_|)| |_NULL_____|| |_DEFAULT_____| target-
variable: >___global-variable-
name_____>> |_host-variable-
name_____|
|_SQL-parameter-name_____|

```



## 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

```
>> __SET CURRENT MAINTAINED |__TABLE_|_FOR OPTIMIZATION_|__|____>
> _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 >> SET  
|_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__ |__=__ |_____>
|_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-____>
| | |
|_condition-name_____ |
> (__diagnostic-string-constant__)_____><
```

## TRANSFER OWNERSHIP

```
>> __TRANSFER OWNERSHIP OF_object_TO_new_owner____REVOKE PRIVILEGES____>
```





```

type__|__)>< data-type: >>__built-in
type____><
|_distinct_type_name_| built-in-type:
>_SMALLINT_____
_____>< | | _INTEGER_|
|
| | | INT_| |
|
| | _BIGINT_|
|
| _____(5,0)_____
|
|_DECIMAL_|_____|_____
|_____
| | _DEC_| | |_(integer_____)_|
|
| | _NUMERIC_| | |, integer_|
|
| _____(34)_____
|
|_DECFLOAT_|
|_____|_____
|_____|
| | _____(16)_|
|
| _____(53)_____
|
|_FLOAT_|_____|_____
|_____
| | _____(integer_____)_|
|
| | _REAL_|_____|
|
| | _____PRECISION_|
|
| | _DOUBLE_|_____|_____
|
| _____(1)_____
|
| _____CHARACTER_|_____|_____
|_____
| | | | _CHAR_| | |_(integer_____)_| |
| | _FOR_| _BIT_| _DATA_| |
| | | | _CHARACTER_| _VARYING_|_(integer_____)_|
|
| | | | _CHAR_| | |
|

```

```

| | | __VARCHAR_____|
|
|         |(1)_____
|
| | | __GRAPHIC_|_____
|_____
| | | |__(integer)___| |
|
| | | __VARGRAPHIC__(integer)_____
|
|         |(1)_____
|
| | | |__BINARY_|_____
|_____
| | | |__(integer)___| |
|
| | | |__BINARY VARYING__(integer)_____
|
| | | |__VARBINARY_____| |
|
| | | |__DATE_____
|_____
| | | |__TIME_____
| | | |__(6)_____ |__WITHOUT TIME ZONE_|
| | | |__TIMESTAMP_|_____ |_____
| | | | |__(integer)_| | |__WITH TIME ZONE_____|

```

assignment-clause:

```

<_, _____
>> _____column-name=__expression_____ | _____>> |
| | | |__DEFAULT_____ | | | | |
| | | | |__NULL_____ |
| | | | |<_, _____ |
| | | | |__(column-name_|)___=__ ( _____expression___ | _____)_|
| | | | | | |__DEFAULT_____| |
| | | | | | |__NULL_____| |
| | | | | | |__row-fullselect_____ |
| | | | | | |__UNPACK function invoc._____|

```

## VALUES

```

>> __VALUES__ expression_____ >>
| | | |<_, _____ |
| | | | |__(expression_|)_|

```



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