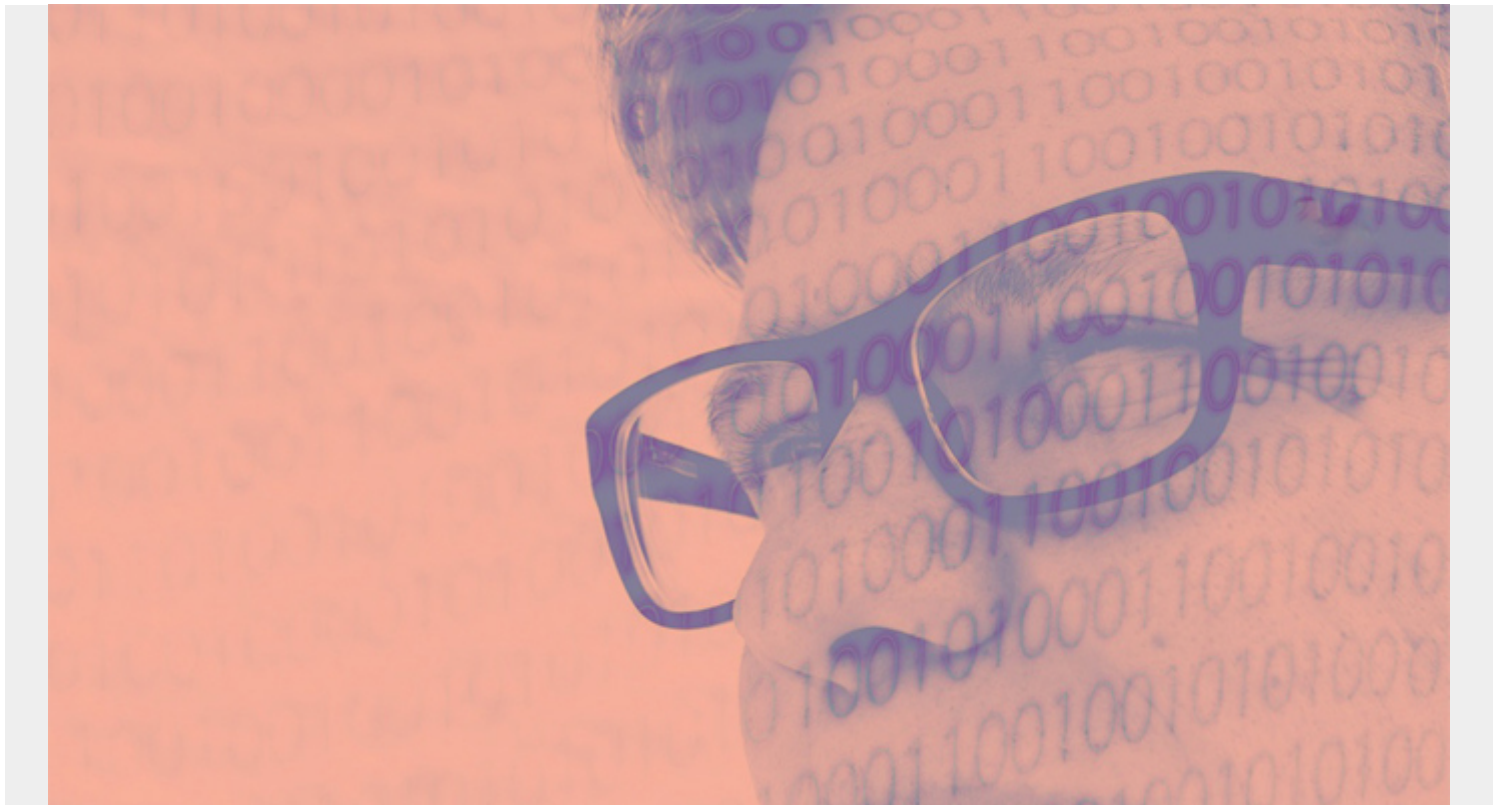


QUERIES IN DB2 12



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_(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_____I_____
_____I ||_DEC_____| I_(integer_____)_____| I |
||_NUMERIC_| I_, integer_| |||_(34)_| I__DECFLOAT_
I_____
I ||_(16)_| |||_(53)_____I
I__FLOAT___I_____I_____
_____I ||| I_(integer_)_| ||| I_REAL_____I ||| I
__PRECISION_| ||| I__DOUBLE_| _____I ||| I__(1)_____I
I_____CHARACTER___I_____I_____
_____I ||| | |_CHAR_____| I_(length_)_____| I |||_CCSID_ASCII___I
I__FOR_SBCS__DATA_| ||| | | |___CHARACTER_VARYING__(length_)_|
I__EBCDIC_| I__MIXED_| ||| | | | | |_CHAR_____| I |||_UNICODE_| I__BIT___| ||| | |
I__VARCHAR_____I ||| | | |_(1M)_____I ||| | |___CHARACTER___LARGE
OBJECT_| I_____I_____I ||| | |
I__CHAR_____| I_(integer_)_| I__CCSID_ASCII___| I__FOR_SBCS__DATA_| |||
I__CLOB_____I |__EBCDIC___| I__MIXED_| ||| I__(1)_____
I
I__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_|          |

```



```

| __NOT DETERMINISTIC_____ |
| |_DETERMINISTIC_____ |
| __CONTAINS SQL_____ |
| |_READS SQL DATA_____ |
| |_MODIFIES SQL DATA_ |
| __NO COLLID_____ |
| |_COLLID__collection-id_ |
| __WLM ENVIRONMENT__ name_____ |
| _____ |_(__name__,*__)_ |
|_ASUTIME__NO LIMIT_____ |
| _____ |_LIMIT__integer_ |
|_STAY RESIDENT__NO_____ |
| _____ |_YES_ |
|_PROGRAMTYPE__SUB_____ |
| _____ |_MAIN_ |
|_SECURITY__DB2_____ |
| _____ |_USER_____ |
| _____ |_DEFINER_ |
|_RUN OPTIONS__run-time-options_____ |
|_COMMIT ON RETURN__NO_____ |
| _____ |_YES_ |
|_INHERIT SPECIAL REGISTERS__ _____ |
| |_DEFAULT SPECIAL REGISTERS__ |
|__STOP AFTER SYSTEM DEFAULT FAILURES__ |
| |_STOP AFTER integer FAILURES_____ |
| |_CONTINUE AFTER FAILURE_____ |

```

ALTER PROCEDURE (SQL-native)

```

>_ALTER PROCEDURE__procedure-name_____>
|_ALTER__ACTIVE VERSION_____
>_ |_____ |_____ |_option-list_____>>
| |_VERSION__routine-version-id_ | | |_ACTIVE VERSION_____ |
|_REPLACE_ |_____ |_routine-specification__ | |
|_VERSION__routine-version-id_ | | |_ADD VERSION__routine-version-id__
routine-specification _____ | |_ACTIVATE VERSION__routine-version-
id_____ | |_ACTIVE VERSION_____ |
|_REGENERATE_ |_____ |_____ | |
|_VERSION__routine-version-id_ | | |_DROP VERSION__routine-version-
id_____ |_routine-specification:
>_____SQL-routine-body_>
|_____ | |_option-list_ |

```

```

I_(_____)I
I< , _____ I I_parameter-declaration I I parameter-
declaration: __IN__ >I_____I_parameter-name__data-
type_____>
I_OUT__I
I_INOUT_I

```

data-type:

```

>>__built-in-data-type_____>>
I_distinct-type-name_I I_array-type-name____I built-in-data-type:
>_SMALLINT_____
_____>< I I_INTEGER__ I I I I INT__ I I I I I_BIGINT__ I I I
_____(5,0)_____ I
I_DECIMAL__ I _____ I
_____ I I DEC__ I I_(integer_____)_____ I I
I_NUMERIC_I I , integer_I I I_(34)_ I I DECFLOAT_
I_____ I
_____(16)_ I I I_(53)_____ I
I_FLOAT__ I _____ I
_____ I I I I_(integer_)_ I I I I REAL_____ I I I I
PRECISION_ I I I I DOUBLE__ I _____ I I I I_(1)_____ I
I_____ CHARACTER__ I _____ I
_____ I I I I CHAR_____ I I_(length_)_____ I I I CCSID__ ASCII__ I
I_FOR_SBCS__ DATA_ I I I I I CHARACTER__ VARYING__(length_)_ I
I_EBCDIC_ I I_MIXED_ I I I I I CHAR_____ I I I UNICODE_ I I I I I
I_VARCHAR_____ I I I I I_(1M)_____ I I I I CHARACTER__ LARGE
OBJECT_ I _____ I _____ I I I I
I_CHAR_____ I I_(integer_)_ I I CCSID__ ASCII__ I I_FOR_SBCS__ DATA_ I I I
I_CLOB_____ I I_EBCDIC_ I I_MIXED_ I I I
_____(1)_____ I UNICODE_ I I
I_GRAPHIC_ I _____ I
_____ I I I I_(integer_)_____ I I I CCSID__ ASCII__ I I I
I_VARGRAPHIC__(integer_)_____ I I_EBCDIC_ I I I I
_____(1M)_____ I UNICDOE_ I I I I DBCLOB_ I _____ I I I
I(integer)_____ I I I_(1M)_____ 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_M_ I
I I I_G_ I I
I_DATE_____ I
_____ I I I TIME_____ I I I I_(6_)_____ WITHOUT TIME ZONE_ I I
I_TIMESTAMP_ I _____ I _____ I _____ I
_____ I I I_(integer)_____ I I WITH TIME ZONE_____ I I
I_XML_____ I

```

```

_____ | option-list: > _____ NOT
DETERMINISTIC _____ >
    |_ DETERMINISTIC _____ |          |_ DYNAMIC RESULT SETS integer_ |
> _____ READS SQL
DATA _____ >
    |_ CONTAINS SQL _____ |          |_ CALLED ON NULL INPUT_ |
    |_ MODIFIES SQL DATA_ |
> _____ STATIC DISPATCH _____ ALLOW
PARALLEL _____ >
                                |_ DISALLOW PARALLEL_ |
> _ DISALLOW DEBUG MODE _____ PARAMETER CCSID ASCII _____ QUALIFIER schema-
name _____ >
    |_ ALLOW DEBUG MODE _____ | |_ PARAMETER CCSID EBCDIC_ |
    |_ DISABLE DEBUG MODE_ | |_ PARAMETER CCSID UNICDOE_ |
> _ PACKAGE OWNER_ auth-name _____ ASUTIME_ NO_ LIMIT _____ COMMIT ON RETURN
YES _____ >
                                |_ ASUTIME_ LIMIT_ int_ | |_ COMMIT ON RETURN NO_ |
                                |_ AUTONOMOUS _____ |
> _ 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 _____ |
> _____ DEGREE
1 _____ >
    |_ DEFER PREPARE_ | |_ IDEGREE ANY 1_ |
    |_ NODEFER PREPARE_ |
> _____ 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 _____ >
    |_ SCHEMA PATH_ | |_ REOPT ALWAYS_ | |_ VALIDATE BIND_ |
    |_ SESSION USER_ | |_ REOPT ONCE_ |
    |_ USER_ |
>
_>

```

```

I_ROUNDING DEC_ROUND_CEILING___ | I_DATE FORMAT ISO___ |
I_ROUNDING DEC_ROUND_DOWN_____ | I_DATE FORMAT EUR___ |
I_ROUNDING DEC_ROUND_FLOOR_____ | I_DATE FORMAT USA___ |
I_ROUNDING DEC_ROUND_HALF_DOWN_ | I_DATE FORMAT JIS___ |
I_ROUNDING DEC_ROUND_HALF_EVEN_ | I_DATE FORMAT LOCAL_ |
I_ROUNDING DEC_ROUND_HALF_UP___ |
I_ROUNDING DEC_ROUND_UP_____ |

```

> _____ FOR UPDATE CLAUSE

REQUIRED _____ >

```

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

```

>

_|>

```

I_TIME FORMAT ISO___ |
I_TIME FORMAT EUR___ |
I_TIME FORMAT USA___ |
I_TIME FORMAT JIS___ |
I_TIME FORMAT LOCAL_ |

```

> _____ >

```

| _____ _YES_ | | _____ _YES_ |
I_SYSTIMESENSITIVE( | _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_____ |

```

```

| | _MAXVALUE__numeric-constant_|
| | _NO CYCLE_____|
| | _CYCLE_____|
| | _NO CACHE_____|
| | _CACHE__integer-constant_|
| | _NO ORDER_____|
| | _ORDER_____|

```

ALTER STOGROUP

```

>> _ALTER STOGROUP__stogroup-name_____>
    <_____> <_,_____ | >_____ ADD
VOLUMES(____volume-idl____)_____ | _____>< |
| <_,____ | | | | | | |
| | | | ____ '*'_|____ | |
| | | | <_,_____ | |
| | REMOVE VOLUMES(____volume-idl____) |
| | | | <_,____ | | ____ '*'_|____ |
>_____>
| _DATACLAS_dc-name_| | _MGMTCLAS_mc-name_| | _STORCLAS_sc-name_|

</_____>

```

ALTER TABLE

```

>> _ALTER TABLE__table-name_____>
    <_____ _COLUMN_____>
> _____ ADD_|_____ |_____ column-definition_____>
| | _____ _COLUMN_____ | | | |
| | ALTER_|_____ |_____ column-alteration_____ |
| | RENAME COLUMN source-column-name_____ |
| | | | _TO target-column-name___ |
| | DROP COLUMN column-name RESTRICT_____ |
| | ADD PERIOD FOR period-definition_____ |
| | ADD__unique constraint_____ |
| | | | _referential-constraint_| |
| | | | _check-constraint_____ |
| | DROP__ PRIMARY KEY_____ |
| | | | _FOREIGN KEY_constraint-name_| |
| | | | _UNIQUE_____ |
| | | | _CHECK_____ |
| | | | _CONSTRAINT_| |
| | ADD PARTITION BY_partitioning-clause_____ |
| | ADD PARTITION_partitioning-clause_____ |
| | ALTER PARTITION_integer_partition clause_____ |

```

```

I_ROTATE_FIRST__TO LAST_rotate-part-clause_____
|
|   I_integer_I
|_ADD ORGANIZE BY HASH organization-clause_____
|_ALTER ORGANIZATION_SET HASH SPACE int_K_____
|
|                                     I_M_I
|                                     I_G_I
|_DROP ORGANIZATION_____
|
|   _SYSTEM_
|_ADD_I_____I_VERSIONING USE HISTORY TABLE hist-table_
|
|   _SYSTEM_
|_DROP_I_____I_VERSIONING_____
|
|   _MATERIALIZED_
|   I_____I_QUERY_
|_ADD_I_____I_mqt-def_____
|
|   _MATERIALIZED_
|_DROP_I_____I_QUERY_____
|
|   _MATERIALIZED_
|_ALTER_I_____I_QUERY_____mqt-alt_____
|
|   I_CHANGES_I
|   I_ALL_____I
|_DATA CAPTURE_____NONE_____
|
|               I_CHANGES_I
|               _CARDINALITY_
|_NOT VOLATILE_____I_____I_____
| I_VOLATILE_____I
|_ADD CLONE_clone-table-name_____
|_DROP CLONE_____
|_ADD RESTRICT ON DROP_____
|_DROP RESTRICT ON DROP_____
|_ACTIVATE_____ROW ACCESS CONTROL_____
| I_DEACTIVATE_I
|_ACTIVATE_____COLUMN ACCESS CONTROL_____
| I_DEACTIVATE_I
|_APPEND_____NO_____
|
|   I_YES_I
|_VALIDPROC_____program-name_____
|
|   I_NULL_____I
|_AUDIT_____NONE_____
|
|   I_CHANGES_I
|   I_ALL_____I
|_ENABLE ARCHIVE_USE_ archive-table-name_____
|_DISABLE ARCHIVE_____I

```

column-definition:

```

> _____column-name_data-type_____>
<_____>
_____I____><

```

```

|_default-clause_____|
|_NOT NULL_____||
|_column-constraint_____||
|_generated-clause_____||
|_check-constraint_____||
|_FIELDPROD__program-name_____||
|
|<_,_____|||
|_(__constant_|_)_|_AS SECURITY
LABEL_____||_IMPLICITLY
HIDDEN_____||_INLINE
LENGTH__integer_____| data-type:
>>_____built-in-data-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_____| |_(length__)_____| | |
|_FOR__SBCS__DATA_| | | | | | | |_CHARACTER__VARYING__(length__)_| |
|_MIXED_| | | | | | | |_CHAR_____| | | | |_BIT_| | | | |
|_VARCHAR_____||_CCSID 1208_____|| | | | |_(1M)_____|| |
| |_____CHARACTER__LARGE OBJECT_
|_____|| | | | | | | | | | | | | | |
|_CHAR_____| |_(integer_)_| | |_FOR__SBCS__DATA_| | | |
|_CLOB_____|| | |_MIXED_| | | | | | |_BIT_| | | | |
_(1)_____||_CCSID1208_____|| |
|_GRAPHIC_|_____| | | | | | | | | |
|_____|| | | |_(integer__)_____| | | | | |
|_VARGRAPHIC__(integer_____)_____|| | | | |_CCSID 1200_| | | |
_(1M)_____|| | |_DBCLOB_| _____|| | |
|_(integer)_____| | |_(1)_____|| |
|_BINARY_|_____|
|_____|| | | |_(integer)_____| | | | | |_BINARY
VARYING__(integer)_____|| | | | |_VARBINARY_____| | |
| | |_(1M)_____|| | | | |_BINARY LARGE
OBJECT_____| _____| | | | |_BLOB_____||
|_(integer_____)_____| | | | |_K_| | | | |_M_| | | | |_G_| |
|_DATE_____
|_____|| | |_TIME_____|| | | | |_(6_)_____ _WITHOUT TIME ZONE_| |

```


partition-clause:

```

    _AT_ <_,_____ _INCLUSIVE_ >>_
ENDING_ |_____|_( __constant_|_) |_____ |_____ >< |
|_MAXVALUE_|
|
|_MINVALUE_|
|_HASH SPACE_ integer_ K_____ |
|_M_|
|_G_|

```

partition-rotation:

```

    _AT_ <_,_____ _INCLUSIVE_
>> _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
      I_FREEPAGE__integer_____I
      I_PCTFREE__integer_____I
      I_COMPRESS_____YES_____I
      I_____I_NO__I_____I
      I_GPBCACHE_____CHANGED_____I
      I_____I_ALL_____I_____I
      I_____I_SYSTEM__I_____I
      I_____I_NONE_____I_____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_____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 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 I__(6)_____ WITHOUT TIME ZONE_ I I I
I_TIMESTAMP_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 I_UNICODE_I I I
I_VARCHAR_NULTERM_____ I 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 I_STAY RESIDENT YES_I
  _PROGRAM TYPE SUB_____ _SECURITY DB2_____
> |_____ |_____ |_____>
I_PROGRAM TYPE MAIN_I I_SECURITY_____ USER_____ I
                                     I_DEFINER_I
  _STOP AFTER SYSTEM DEFAULT FAILURES_____
> |_____ |_____>
I_STOP AFTER integer FAILURES_____ I
I_CONTINUE AFTER FAILURE_____ I
> _____>
I_RUN OPTIONS__run-time-options_I
  _INHERIT SPECIAL REGISTERS_____ _STATIC DISPATCH_____
> |_____ |_____ |_____ |_____><
I_DEFAULT SPECIAL REGISTERS_I _NOT SECURED_____
> |_____ |_____><
I_SECURED_____ I

```

CREATE FUNCTION (sourced)

```

>> __CREATE FUNCTION__ function-name_____>
> __ ( _____ ) _____>
  I < , _____ I |__parameter-declaration_I_I
> __RETURNS__ data-type2_____>
  I_AS LOCATOR_____ I

> _____>
  I_SPECIFIC__specific-name_I I_PARAMETER CCSID__ _ASCII_____ I
                                     I_EBCDIC_____ I
                                     I_UNICODE_____ I
> __SOURCE__ function-name_____><
I_SPECIFIC__specific-name_____ I
  I_function-name__( _____ )_I
                                     I < , _____ I |__parameter-type_I_I
parameter-declaration: >> _____ parameter-
type_____>< I_parameter-name_I parameter-type:
>> __ data-type_____>< I
I_AS LOCATOR_____ I I_TABLE LIKE__ table-name_ __AS LOCATOR_I I_view-
name_I data-type: >> _____ built-in-data-
type_____>< I_distinct-type-name_I
built-in-data-type:

```

```

> __SMALLINT____
____>< | | _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)_____

```



```

__(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_|
|_____ >_RETURNS TABLE_(column-
name_data-type2_|_____ options-list_____ >
>_SQL-routine-body_____ >

```

parameter-declaration:

```
>>__parameter-name parameter-type_____><
parameter-type: >>___data-
type1_____>< |_TABLE
LIKE__table-name__ AS LOCATOR_|_view name_| data-type1, data-type2:
>>___built-in-data-type_____><
|_distinct-type-name_| built-in-data-type:
>_SMALLINT_____
_____>< | |_INTEGER_| | | |_INT_| | | | |_BIGINT_| | | |
_____(5,0)_____ |
|_DECIMAL_|_____ |
_____ | | |_DEC_| | |_(integer_____)_____ | |
| |_NUMERIC_| | |, integer_| | |_(34)_ | |_DECFLOAT_
|_____ |
_____| | |_(16)_ | | |_(53)_____ |
|_FLOAT_|_____ |
_____ | | | |_(integer_)_| | | |_REAL_| | | | |
|_PRECISION_| | | |_DOUBLE_|_____ | | | |_(1)_____ |
|_____ CHARACTER_____ |
_____ | | | | |_CHAR_| | |_(length_)_____ | | | |_CCSID_ASCII_| |
|_FOR_SBCS_DATA_| | | | | |_CHARACTER_VARYING_| | |_(length_)_| | | | | | | | | |
|_EBCDIC_| | |_MIXED_| | | | | |_CHAR_| | | | |_UNICODE_| | | | |
|_VARCHAR_| | | | | |_(1M)_____ | | | | |_CHARACTER_| | | | |
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_____)_____|

```

```

|
| | 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_|

```


|_ 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:


```

>> __PARTITION__integer__ENDING__|__|_AT_<_,_____|_INCLUSIVE_
|_MAXVALUE_|
|_MINVALUE_|

```

CREATE MASK

```

>> __CREATE MASK__mask-name__ON__table-name_____>
|_AS_|
|_|_|_correlation-name_|
> __FOR COLUMN__column-name____RETURN case-expression__DISABLE_____><
|_ENABLE_|

```

CREATE PERMISSION

```

>> __CREATE PERMISSION__permission-name__ON__table-name_____>
|_AS_|
|_|_|_correlation-name_|
> __FOR ROWS WHERE__search-condition__ENFORCED FOR ALL ACCESS__DISABLE_____><
|_ENABLE_|

```

CREATE PROCEDURE (external)

```

>> __CREATE PROCEDURE__procedure-name_____>
<_,_____
> __(__|_)__option-list_____><
|_parameter-declaration_| parameter-declaration: __IN_____
> __|_OUT_____|_____parameter-type_____>
|_INOUT_____| |_parameter-name_|

```

parameter-type:

```

>> __data-type_____><
|_AS LOCATOR_____| | |_TABLE LIKE____table-name____AS LOCATOR_| |_view-
name_| data-type: >> __built-in-data-
type_____>< |_distinct-type-
name_| built-in-data-type:
> __SMALLINT_____
_____>< | |_INTEGER_| | | |_INT_| | | | |_BIGINT_| | | |
_____(5,0)_____|
|_DECIMAL_____| _____|
_____||_DEC_____| |_(integer_____)_____| |
| |_NUMERIC_| |_, integer_| | |_(34)_| |_DECFLOAT_

```

```

|_____|
| | | | (16) | | | | (53) _____ | | | | | | | | | |
|__ FLOAT__ | _____ |
| | | | | (____integer____) | | | | | REAL _____ | | | |
|__ PRECISION__ | | | | | DOUBLE _____ | | | | | (1) _____ |
|_____ CHARACTER _____ | _____ |
| | | | | | CHAR _____ | | (length____) _____ | | | | CCSID ASCII _____ |
|__ FOR_SBCS__ DATA | | | | | | CHARACTER VARYING ____ (length____) ____ |
|__ EBCDIC__ | | MIXED | | | | | | CHAR _____ | | | | UNICODE | | | | |
|__ VARCHAR _____ | | | | | | (1M) _____ | | | | | CHARACTER LARGE
OBJECT _____ | _____ | | | | |
|__ CHAR _____ | | (____integer____) | | CCSID ASCII _____ | | FOR_SBCS__ DATA | | |
|__ CLOB _____ | | EBCDIC _____ | | MIXED _____ | | | | (1) _____
|__ UNICODE _____ | | | | | | | | | | | |
|__ GRAPHIC _____ | _____ |
| | | | | (____integer____) _____ | | | | | CCSID ASCII _____ | | |
|__ VARGRAPHIC ____ (____integer____) _____ | | EBCDIC _____ | | | |
| (1M) _____ | UNICODE _____ | | | | | DBCLOB _____ | | | |
| (integer) _____ | | | | | (1) _____ | | |
|__ BINARY _____ | _____ |
| | | | | (integer) _____ | | | | | BINARY VARYING
____ (integer) _____ | | | | | VARBINARY _____ | | | | |
| (1M) _____ | | | | | BINARY LARGE
OBJECT _____ | _____ | _____ | | | | | BLOB _____ |
| (____integer____) _____ | | | | | K | | | | | M | | | | | G | |
|__ DATE _____ | _____ |
| | | | | TIME _____ | | | | | ____ (6____) _____ WITHOUT TIME ZONE _____ | |
|__ TIMESTAMP _____ | _____ | _____ |
| | | | | (integer) _____ | | WITH TIME ZONE _____ | |
|__ ROWID _____ | _____ |
| option-list: __ DYNAMIC RESULT SET 0 _____ |
>> ____ | _____ | _____ >
|__ DYNAMIC__ RESULT__ SET__ integer _____ |
> _____ >
|__ PARAMETER ____ CCSID ASCII _____ |
| | | | | 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_) _____ |
```



```

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_____|

```



```

> _____>
I_QUERY ACCELERATION NONE_____ | I_GET_ACCEL_ARCHIVE NO___ |
I_QUERY ACCELERATION ENABLE_____ | I_GET_ACCEL_ARCHIVE YES___ |
I_QUERY ACCELERATION ENABLE WITH FAILBACK_|
I_QUERY ACCELERATION ELIGIBLE_____ |
I_QUERY ACCELERATION ALL_____ |

```

```

    _RELEASE AT COMMIT_____ _REOPT NONE_____
> |_____ | _____ | _____>
I_RELEASE AT DEALLOCATE___ | I_REOPT ALWAYS___ |
                                I_REOPT ONCE___ |

```

```

    _VALIDATE RUN_____
> |_____ | _____>
I_VALIDATE BIND_ | I_ROUNDING DEC_ROUND_CEILING___ |
                                I_ROUNDING DEC_ROUND_DOWN_____ |
                                I_ROUNDING DEC_ROUND_FLOOR_____ |
                                I_ROUNDING DEC_ROUND_HALF_DOWN___ |
                                I_ROUNDING DEC_ROUND_HALF_EVEN___ |
                                I_ROUNDING DEC_ROUND_HALF_UP___ |
                                I_ROUNDING DEC_ROUND_UP_____ |

```

```

> _____>
I_DATE FORMAT ISO___ | I_DECIMAL(15)___ |
I_DATE FORMAT EUR___ | I_DECIMAL(31)___ |
I_DATE FORMAT USA___ | I_DECIMAL(15,s)_ |
I_DATE FORMAT JIS___ | I_DECIMAL(31,s)_ |
I_DATE FORMAT LOCAL_ |

```

```

    _FOR UPDATE CLAUSE REQUIRED_
> |_____ | _____>
I_FOR UPDATE CLAUSE OPTIONAL_ | I_TIME FORMAT ISO___ |
                                I_TIME FORMAT EUR___ |
                                I_TIME FORMAT USA___ |
                                I_TIME FORMAT JIS___ |
                                I_TIME FORMAT LOCAL_ |

```

```

> _____>
| _____ _YES_ _____ _YES_ |
I_SYSTIMESENSITIVE( I_NO_ I_ )_ | I_BUSTIMESENSITIVE( I_NO_ I_ )_ |

```

```

> _____>
| _____ _YES_ _____ |
I_ARCHIVESENSITIVE( I_NO_ I_ )_ | I_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_| | |_,integer_| |
```

CREATE STOGROUP

```
<_ , _____>>_CREATE
STOGROUP__stogroup-name__VOLUMES(____volume-id|_____)____>
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_PAGE_____I I I
I_ROW_____I I I_I_LOB_____I I I_LOCKMAX__SYSTEM_____I I
I_integer_I I I_YES_I I_CLOSE__I_NO__I_____I I_NO__I
I_COMPRESS__I_YES_I_____I I_CC SID__ASCII_____I I I_EBCDIC__I I I
I_UNICODE_I I I_MAXROWS__integer_____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_| | _____ | _____ | |_AS_| |
|_NEW_| | _____ | |_AS_| | |_OLD
TABLE_____ | _____ |_identifier_| | |_AS_| | |_NEW TABLE_____ | _____ |_identifier_|
> _FOR EACH ROW_____ MODE DB2SQL_ NOT SECURED_ triggered-action_ >>
|_FOR EACH STATEMENT_| |_SECURED_____ | triggered-action:
>> _____ SQL trigger body_____ >
  |_WHEN_( _____ )_|
```

SQL-trigger-body:

```

> _____ SQL-control-statement_____ >>
|_trigger-SQL-statement_| option-list: > _DISALLOW DEBUG
MODE_____ APPLICATION ENCODING SCHEME ASCII_____ >
  |_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)_____  
|
```

```

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

```

```

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

```

CREATE VARIABLE

```

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

```

built-in-type:

```

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

```



```

|
|          _(34)_
|
|_DECFLOAT_
|_____|_____
|_____|
|          |(16)|
|
|          _(53)_____
|
|_FLOAT_ |_____|_____
|_____|
| |          |_(integer)|
|
|_REAL_____|
|
| |          |PRECISION|
|
|_DOUBLE_ |_____|_|
|
|          |(1)_____
|
|_____CHARACTER_____|_____
|_____|
| | | |_CHAR_____| |(length)|_____| | |_CCSID_ASCII_|
|_FOR_SBCS_DATA_| | |
| | | |_____CHARACTER_VARYING_(length)|_____ |_EBCDIC_| | |_MIXED_|
| | |
| | | |_CHAR_____| | | |_UNICODE_|
| | |
| | | |_VARCHAR_____|
| | |
| | |          |(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)_____|
|
|      (1)_____
|
|
|_
|_BINARY__|_____|_____
|_____|
| I      |(integer)__|_____ |
|
| I__BINARY VARYING_(integer)_____|
|
| I I_VARBINARY_____ |
|
|_DATE_____
|_____|
|_TIME_____|
|      __ (6)_____ _WITHOUT TIME ZONE_ |
|_TIMESTAMP_|_____|_____|_____|
|      |(integer)_| | _WITH TIME ZONE____|

```

assignment-clause:

```

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

```

DESCRIBE CURSOR

```

>> _DESCRIBE CURSOR__cursor-name_____INTO__descriptor-
name_____>< |_host-variable_|

```

DESCRIBE INPUT

```

>> _DESCRIBE INPUT__statement-name_____INTO__descriptor-
name_____><

```

DESCRIBE OUTPUT

```

      _OUTPUT_
>> _DESCRIBE_ | _____ | _statement-name_ INTO _descriptor-name_ >
> _____ >
< |
    | _NAMES_ |
    | _USING_ | | _LABELS_ | |
    |         | | _ANY_ | |
    |         | | _BOTH_ | |

```

DESCRIBE PROCEDURE

```

>> _DESCRIBE PROCEDURE_ procedure-name INTO _descriptor-
name _____ >< | _host-variable_ |

```

DESCRIBE TABLE

```

>> _DESCRIBE TABLE_ host-variable INTO _descriptor-name_ >
> _____ >
< |
    | _NAMES_ |
    | _USING_ | | _LABELS_ | |
    |         | | _ANY_ | |
    |         | | _BOTH_ | |

```

DROP

```

>> _DROP_ _____ ALIAS _alias-name_ | _____ | _____ >>
| | _PUBLIC_ | | _____ | | _____ | | | | | | | |
| | _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)_____

```

```

|
| _____ CHARACTER _____ | _____ | _____
| _____ |
| | | | _CHAR_____ | |_(integer)_____ | | | _CCSID_ ASCII___ |
| _FOR_ SBCS_ DATA_ | | |
| | | _CHARACTER_ VARYING_(integer)___ | | _EBCDIC___ |
| _MIXED_ | | |
| | | | _CHAR_____ | | | | _UNICODE_ |
| | |
| | | _VARCHAR_____ |
| | |
| | | _____(1M)_____
| | |
| | _____ CHARACTER_ LARGE OBJECT_
| _____ | _____ | | | | | | |
| | | | _CHAR_____ | | _____ | | _CCSID_ ASCII___ |
| _FOR_ SBCS_ DATA_ | | |
| | | _CLOB_____ | | | _EBCDIC___ |
| _MIXED_ | | |
| | _____(1)_____ | | _UNICODE_ |
| |
| | _GRAPHIC_ | _____ |
| _____ |
| | | _____ | | _____ | | |
| | | | _____(integer)_____ | | | _CCSID_ ASCII___ |
| | |
| | | _VARGRAPHIC_(integer)_____ | | | _EBCDIC___ |
| | |
| | | _____(1M)_____ | | | _UNICODE_ |
| | |
| | | _DBCLOB_ | _____ |
| | |
| | | _____(integer)_____ |
| | |
| | | _____(1)_____
| | |
| |
| | _BINARY_ | _____ |
| _____ |
| | | _____ | | _____ | |
| | |
| | | _BINARY VARYING_(integer)_____ |
| | |
| | | | _VARBINARY_____ | | |
| | |
| | | _____(1M)_____ |
| | |
| | | _BINARY LARGE OBJECT_____ | _____ |

```

```

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

```

END DECLARE SECTION

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

EXCHANGE

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

EXECUTE

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

```

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

```

source-row-data:

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

```

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

```

EXECUTE IMMEDIATE

```

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

```

EXPLAIN

```

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

```

FETCH

```

>>_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__ | _____ >< I_PUBLIC _____ |
|_WITH GRANT OPTION_|
      |_ROLE_role-name_____ |

```

GRANT (database privileges)

```

>> __GRANT_____ DBADM_____ |__ ON DATABASE_____ <_ , _____
      |_DBCTRL_____ |
      |_DBMAINT_____ |
      |_CREATETAB_ |
      |_CREATETS_ |
      |_DISPLAYDB_ |
      |_DROP_____ |
      |_IMAGCOPY_ |
      |_LOAD_____ |
      |_RECOVERDB_ |
      |_REORG_____ |
      |_REPAIR_____ |
      |_STARTDB_ |
      |_STATS_____ |
      |_STOPDB_____ |
      </_><_ , _____ >__ TO_____ authorization-
name__ | _____ >< I_PUBLIC _____ |
|_WITH GRANT OPTION_|
      |_ROLE_role-name_____ |

```

GRANT (function or procedure privileges)

```

>> __GRANT__ EXECUTE__ ON_____ >
      <_ , _____
> _____ FUNCTION_____ function-name_____ |_____ >
  | |
  | |
  | | _____ |_( _____ |_)_| | |
  | | _____ |_parameter-type_| | |
  | | _____ |_* _____ | |
  | | _____ <_ , _____ |
  | | _____ |_SPECIFIC FUNCTION_____ specific-name_| _____ |
  | | _____ <_ , _____ |
  | | _____ |_PROCEDURE_____ procedure-name_| _____ |
  | | _____ |_* _____ |
  | | _____ <_ , _____ >__ TO_____ authorization-

```

```

name__ | _____>< |_PUBLIC_____ |
|_WITH GRANT OPTION_|_ROLE_role-name_____| parameter-type: >>__ data-
type_____>< |_AS
LOCATOR_____| data-type: >>__ built-in-data-
type_____>< |_distinct-type-
name_|_array-type-name_____| built-in-data-type:
>_SMALLINT_____
_____>< | |_INTEGER_|
|
| |_INT_| |
|
| |_BIGINT_____|
|
| _____(5,0)_____
|
|_DECIMAL_____| _____|
|_____
| |_DEC_____| |_(integer_____)_____|
|
| |_NUMERIC_| _____ |_, integer_|
|
| _____(34)_____
|
|_DECFLOAT_
|_____
|_____
|_____
| |_____ |_(16)_____|
|
| _____(53)_____
|
|_FLOAT_____| _____|
|_____
| | _____ |_(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__I_____>_TO_____authorization-
I_WITH GRANT OPTION_I
I_ROLE_role-name_____I

```

GRANT (table or view privileges)

```

PRIVILEGES_
>> GRANT ALL_I_____I_____
>
I <_ , _____ I
I ALTER_____I_I
I_DELETE_____I
I_INDEX_____I
I_INSERT_____I
I_SELECT_____I
I_REFERENCES_____I
I_____I <_ , _____ I
I_____I(____column-name_I_)_I
I_TRIGGER_____I
I_UPDATE_____I
I_____I <_ , _____ I
I_____I(____column-name_I_)_I
TABLE_ <_ , _____ > ON_I_____I_____table-
name__I_____>
I_view-name_I
</_><_ , _____ > TO_____authorization-
name_____I_____><
I_PUBLIC_____I I_WITH GRANT OPTION_I
I_ROLE_role-name_____I

```


GRANT (type or JAR privileges)

```

        <_ , _____ >> __GRANT__ USAGE ON __TYPE__ type-
name_ | _____ >
        |
        | </_><_ , _____ |
        |_JAR__ jar-name_ | _____ |
        |
        | <_ , _____ > __TO__ authorization-
name_ | _____ >< |_PUBLIC_____ |
        |_ROLE__ role-name_____ |

```

GRANT (variable privileges)

```

        __PRIVILEGES__
>> __GRANT__ ALL | _____ | __ON VARIABLE__ variable-name _____ >
        |
        | <_ , _____ |
        | _____ READ _____ |
        | _____ WRITE _____ |
        |
        | <_ , _____ > __TO__ authorization-
name_ | _____ >< |_PUBLIC_____ |
        |_WITH GRANT OPTION_ |
        |_ROLE__ role-name_____ |

```

GRANT (use privileges)

```

>> __GRANT USE OF _____ >
        <_ , _____
> __BUFFERPOOL__ bpname | _____ >
        |_ALL BUFFERPOOLS _____
        |
        | </_><_ , _____ |
        |_STOGROUP__ stogroup-name_ | _____ |
        |
        | <_ , _____ |
        |_TABLESPACE_____ table-space-name_ | _____ |
        |_database-name_ | _____ |
        |
        | <_ , _____ > __TO__ authorization-
name_ | _____ >< |_PUBLIC_____ |
        |_WITH GRANT OPTION_ |
        |_ROLE__ role-name_____ |

```

HOLD LOCATOR

```

        <_ , _____ >> __HOLD
LOCATOR__ host_variable_ | _____ ><

```

INCLUDE

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

INSERT

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

> __VALUES__ expression _____>>
| | |_DEFAULT__| | |
| | |_NULL_____| | |
| | <_, _____ | |
| |_( __expression_|_ )_| |
| | |_DEFAULT__| | |
| | |_NULL_____| | |
| | <_, _____ | |
|_WITH common-table-expression_| _____|
|_fullselect_____|
| |_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_|

```

LOCK TABLE

```
>> __LOCK TABLE __table-name_____>
                                     |_PARTITION__integer_|
> __IN__SHARE_____MODE_____>>
|_EXCLUSIVE_|
```

MERGE

```
>> __MERGE INTO_____table-name_____>
          |_view-name_| |_____|
          |_correlation-clause_|
> _____>
|_include-columns_|
> __USING__table-reference__ON__search-condition_____>
    |_source-values_|
< _____ELSE IGNORE_
> __WHEN__matching-condition__THEN__modification-operation|_|_____|_____>
> _____>>
|_NOT ATOMIC CONTINUE ON SQL EXCEPTION_| |_QUERYNO__integer_|
```

include-column:

```
< _____> __INCLUDE__(__column-name__data-
type_|_)_____>> correlation-clause:
> _____>>
|_AS_____|
|_|_____|_correlation-name_____|
|_____| <_,_____||_(column-
name_)_____|_| data-type: >> __built-in
type_____>>
|_distinct_type_name_| built-in-type:
> __SMALLINT_____
_____>> | |_INTEGER_|
|
| | |INT_| |
|
| |_BIGINT_|
|
| _____(5,0)_____
|
|_DECIMAL_|_____|_____
|_____|
| |_DEC_| | |_(integer_____)_____|
```



```

| |      |_(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_____| |
|_____ | |_(column-name_|_) | | |__NULL_____| | |
| <,_ _____ |

```

| (__expression__ |) | | _DEFAULT__ | | _NULL__ | delete-
operation:

```
>> _DELETE_____ >  
<
```

OPEN

```
>> _OPEN__ cursor-  
name_____ >< |
```

```
<_, _____ |  
| _USING_____ variable_ | _____ |  
| _____ |_array-variable_| |  
| _USING DESCRIPTOR_____ descriptor-name_ |
```

PREPARE

```
>> _PREPARE__ statement-name_____ >  
>_____ >
```

```
| _INTO__ descriptor-name_____ |  
| _____ |  
| _____ |  
| _____ |  
| _____ |  
| _____ |
```

```
> _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

```

    _TO_
>>__RELEASE___|_____|___SAVEPOINT___svpt-
name_____><

```

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:

```



```

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

```



```

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

```

REVOKE (variable privileges)

```

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

```

ROLLBACK

```

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

```

SAVEPOINT

```

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

```

SELECT INTO

```

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

```

```

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

```

SET CONNECTION

```

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

```

SET assignment statement

```

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

```

|_SQL-variable-name_____|
|_transition-variable-name_|

SET CURRENT APPLICATION COMPATIBILITY

>>__SET CURRENT_APPLICATION COMPATIBILITY_____|_____|__string-constant_____|><
|_host-variable_____|

SET CURRENT APPLICATION ENCODING SCHEME

_____|_APPLICATION_____|
>>__SET CURRENT_____|_____|_ENCODING SCHEME_____|_____|_____|>
>__string-constant_____|_____|_____|><
|_host-variable_____|

SET CURRENT DEBUG MODE

>>__SET CURRENT_DEBUG MODE_____|_____|__host-variable_____|_____|><
|_DISALLOW_____|
|_ALLOW_____|
|_DIABLE_____|

SET CURRENT DECFLOAT ROUNDING MODE

>>__SET CURRENT DECFLOAT ROUNDING MODE_____|_____|__ROUND CEILING_____|_____|><
|_ROUND_DOWN_____|
|_ROUND_FLOOR_____|
|_ROUND_HALF_DOWN_____|
|_ROUND_HALF_EVEN_____|
|_ROUND_HALF_UP_____|
|_ROUND_UP_____|
|_string-constant_____|
|_host-variable_____|

SET CURRENT DEGREE

>>__SET CURRENT DEGREE = __string-constant_____|_____|><
|_host-variable_____|

SET CURRENT EXPLAIN MODE

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

SET CURRENT GET_ACCEL_ARCHIVE

```
>> __SET CURRENT GET_ACCEL_ARCHIVE |__|__NO_____><
|_YES_____|
|_host-variable_|
```

SET CURRENT LOCALE LC_CTYPE

```
>> __SET _____LC_CTYPE_____|__|____>
| |_CURRENT_____| | |
| | |_LOCALE_| |
| |_CURRENT_LC_CTYPE_____|
> ___string-constant_____><
|_host-variable___|
```

SET CURRENT MAINTAINED TABLE TYPES FOR OPTIMIZATION

```
>> __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____>
```

object:

```
> ___ DATABASE_database-name_____><
|_INDEX index-name_____| |_STOGROUP stogroup-
name_____| |_TABLE table-name_____|
|_TABLESPACE_____tablespace-name_| |database-name_| | |_VIEW
view-name_____| new-owner: >___ROLE_role-
name_____>< |_USER
authorization-name___|
|_SESSION_USER_____|
```

TRUNCATE

```
>> ___TRUNCATE_|_TABLE_
_____|_table-name_|_DROPPED STORAGE_
_____|_REUSE STORAGE_|
_____
> ___IGNORE DELETE TRIGGERS_____
|_RESTRICT WHEN DELETE TRIGGERS_|_IMMEDIATE_|><
```

UPDATE

searched-update:

```
>> ___UPDATE___table-name_____>
|_view-name_| |_correlation-name_| |_include_column_|
> ___SET___assignment-clause_____>
|_WHERE___search-condition_|
> _____>
|_SKIP LOCKED DATA_| |_QUERYNO___integer_|
|_WITH___RR_____|
|_RS_|
|_CS_|
```

positioned update:

```
>> ___UPDATE___table-name_____SET_assignment-clause_____>
|_view-name_| |_correlation-name_|
> WHERE CURRENT OF_cursor-name_____><
|_FOR ROW___host-variable___OF ROWSET_| |integer-constant| period-clause:
>> ___FOR PORTION OF BUSINESS_TIME___FROM_value1_TO_value2_____><
|_BETWEEN value1 AND value2___|
```

include-column:

```
<_,_____>> ___INCLUDE_(___column-name___data-
```



```

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

```

```

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

```

assignment-clause:

```

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

```

VALUES

```

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

```


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