ParseQuery

: SQLStatements

| €

;

SQLStatements

: sqlStatement SQLStatements

| €

;

sqlStatement

: ddlStatement

| dmlStatement

;

ddlStatement

: createDatabase

| createTable

;

dmlStatement

: select

| insert

;

createDatabase

: CREATE dbFormat ifNotExist uid SEMI\_COLON

;

dbFormat

: DATABASE

| SCHEMA

;

ifNotExist

: IF NOT EXISTS

| €

;

createTable

: CREATE temporary TABLE ifNotExist uid createDefinations SEMI\_COLON

;

temporary

: TEMPERORY

| €

;

createDefinations

: (createDefination createDefinations)

| , createDefination createDefinations

| €

;

createDefination

: uid datatypes

| tableOptions

;

datatype

: INT

| CHAR

| VARCHAR

| TEXT

| BOOL

;

tableOptions

: PRIMARY KEY list

| FOREIGN KEY list

;

select

: selectQuery

;

selectQuery

: SELECT selectElements fromClause limitClause SEMI\_COLON

;

selectElements

: \*

| list

| €

;

fromClause

: FROM uid whereClause

;

whereClause

: WHERE expression

| €

;

limitClause

: LIMIT uid

| €

;

Insert

: INSERT into uid insertOpt SEMI\_COLON

;

into

: INTO

| €

;

insertOpt

: list insertOpt

| VALUES list

| €

;

list

: (uid list)

| uid list

| ‘,’ uid

| €

;

expression

: predicate

;

predicate

: predicate logicalOpr list

| predicate logicalOpr predicate logicalOpr predicate

| predicate logicalOpr predicate

| predicate comparisonOpr predicate

| atomicVal

;

LogicalOpr

| NOT logicalOpr

| IN

| BETWEEN

| LIKE

| AND

;

atomicVal

: uid

;

uid

: [a-zA-Z] uid;

| [0-9] uid

| \_ uid

| ‘ uid ‘

| €

;

comparisonOpr

: =

| <

| >

| >=

| <=

;