```
<Command> ::= <CommandType> ";"
<CommandType>::= <Use>|<Create>|<Drop>|<Alter>|<Insert>|<Select>|<Update>|<Delete>|<Join>
  1) USE
        ::= "USE" [DatabaseName]
<Use>
  2) CREATE
<Create>
          ::= <CreateDatabase> | <CreateTable>
   <CreateDatabase> ::= "CREATE " "DATABASE " [DatabaseName]
    <CreateTable> ::= "CREATE" "TABLE" [TableName] |
                       "CREATE " "TABLE " [TableName] "(" < AttributeList > ")"
           O <AttributeList> ::= [AttributeName] | [AttributeName] "," <AttributeList>
                 [AttributeName] ::= [PlainText]
3) DROP
<Drop> ::= "DROP" "DATABASE" [DatabaseName] | "DROP" "TABLE" [TableName]
______
  4) ALTER
          ::= "ALTER " "TABLE " [TableName] " " <AlterationType> " " [AttributeName]
<Alter>
   <AlterationType> ::= "ADD" | "DROP"
  5) INSERT
<Insert>
          ::= "INSERT " "INTO " [TableName] " VALUES" "(" < ValueList > ")"
  <ValueList> ::= [Value] | [Value] "," <ValueList>
              ::= "'" [StringLiteral] "'" | [BooleanLiteral] | [FloatLiteral] | [IntegerLiteral] | "NULL"
  [Value]
  6) SELECT
<Select>
           ::= "SELECT" < WildAttribList> "FROM" [TableName] |
              "SELECT " < WildAttribList> " FROM " [TableName] " WHERE " < Condition>
   <WildAttribList> ::= <AttributeList> | "*"
  <attributeList> ::= [AttributeName] | [AttributeName] "," <attributeList>
  7) UPDATE
           ::= "UPDATE" [TableName] "SET" < NameValueList > "WHERE" < Condition >
<Update>
  <NameValueList> ::= <NameValuePair> | <NameValuePair> "," <NameValueList>
   <NameValuePair> ::= [AttributeName] "=" [Value]
  8) DELETE
<Delete>
          ::= "DELETE" "FROM" [TableName] "WHERE" < Condition>
  9) JOIN
<Join> ::= "JOIN" [TableName] " AND " [TableName] " ON " [AttributeName] " AND " [AttributeName]
```

```
[AttributeName] ::= [PlainText]
[DatabaseName] ::= [PlainText]
             ::= [Letter] | [Digit] | [PlainText] [Letter] | [PlainText] [Digit]
[PlainText]
                  ::= "0" | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9"
   o [Digit]
   [Letter]
                  ::= [Uppercase] | [Lowercase]
          [Uppercase] ::= "A" | "B" | "C" | "D" | "E" | "F" | "G" | "H" | "I" | "J" | "K" | "L" | "M" | "N" | "O"
              | "P" | "Q" | "R" | "S" | "T" | "U" | "V" | "W" | "X" | "Y" | "Z"
          [Lowercase] ::= "a" | "b" | "c" | "d" | "e" | "f" | "g" | "h" | "i" | "j" | "k" | "l" | "m" | "n" | "o" |
              "p" | "q" | "r" | "s" | "t" | "u" | "v" | "w" | "x" | "y" | "z"
           ::= "'" [StringLiteral] "'" | [BooleanLiteral] | [FloatLiteral] | [IntegerLiteral] | "NULL"
[Value]
          [StringLiteral] ::= "" | [CharLiteral] | [StringLiteral] [CharLiteral]
                  [CharLiteral] ::= [Space] | [Letter] | [Symbol] | [Digit]
                  ■ [Symbol] ::= "!"|"#"|"$"|"%"|"&"|"("|")"|"*"|"+"|";"|"-"|":"|";"|
                     ">"|"="|"<"|"?"|"@"|"["|"\"|"]"|"^"|"_"|"`"|"{"|"}"|"~"
                  [Space]
                                 ::= " "
          o [BooleanLiteral] ::= "TRUE" | "FALSE"
          o [FloatLiteral] ::= [DigitSequence] "." [DigitSequence] | "-" [DigitSequence] "."
                                     "+" [DigitSequence] "." [DigitSequence]
              [DigitSequence] |
          o [IntegerLiteral] ::= [DigitSequence] | "-" [DigitSequence] | "+" [DigitSequence]
                  [DigitSequence] ::= [Digit] | [Digit] [DigitSequence]
# We have made an adjustment to the following rule - in it's original form, some valid queries would be
very hard to parse
# For example, the following query was valid according to BNF: SELECT * FROM STUDENTS WHERE
AGE>10ANDMARK>70;
# With the revised rules, the above would NOT be valid and would need to be replaced by: SELECT *
FROM STUDENTS WHERE AGE>10 AND MARK>70;
<OLD-Condition> ::= "(" <Condition> <BoolOperator> <Condition> ")" | <Condition> <BoolOperator>
<Condition> | "(" [AttributeName] <Comparator> [Value] ")" | [AttributeName] <Comparator> [Value]
<Condition>
                ::= "(" < Condition > ")" | < First Condition > < Bool Operator > < Second Condition > |
[AttributeName] < Comparator > [Value]
     <FirstCondition> ::= <Condition> " " | "(" <Condition> ")"
   <SecondCondition> ::= " " <Condition> | "(" <Condition> ")"
     <BoolOperator> ::= "AND" | "OR"
     <Comparator> ::= "==" | ">" | "<" | ">=" | "<=" | "!=" | " LIKE "
```

[TableName] ::= [PlainText]

Note:

<name> denotes a rule which may contain arbitrary additional whitespace within the symbol.

[name] indicates a rule that cannot contain additional whitespace.

For rules where additional whitespace is permitted, this can only occur before/after/between tokens and NOT _inside_ the tokens themselves...

For example, the following is valid: CREATE DATABASE marks;

Whereas the following is not valid: CRE ATE DATA BASE marks;