

# DB PROJECT

## Deliverable 2

**Aim :** Implement a Database system to validate sql query and execute CREATE command.

You need to implement the following public methods :

```
void queryType(String query) {  
    /*  
        Deteremine the type of the query (select/create)  
        and invoke appropriate method for it.  
    */  
}  
  
void createCommand(String query) {  
    /*  
        Use any SQL parser to parse the input query. Check if the table  
        doesn't exists and execute the query.  
  
        The execution of the query creates two files : <tablename>.data  
        and <tablename>.csv. An entry should be made in the system  
        config file used in previous deliverable.  
  
        Print the query tokens as specified at the end.  
  
        **format for the file is given below  
    */  
}  
  
void selectCommand(String query) {  
    /*  
        Use any SQL parser to parse the input query. Perform all  
        validations (table name, attributes, datatypes, operations). Print the  
        query tokens as specified below.  
    */  
}
```

### File Formats :

<tablename>.data

*Attribute1:Datatype,Attribute2:Datatype,...*

### Input/Output format :

1. Input : select <col1>,<col2> from  
<tablename>; Output :  
Querytype:select

Tablename:<tablename>  
Columns:<col1>,<col2>  
Distinct:NA  
Condition:NA  
Orderby:NA  
Groupby:NA  
Having:NA

2. Input : select distinct(<col1>) from <table name> where <col1> <op>  
<value>; Output :  
Querytype:select  
Tablename:<tablename>  
Columns:<col1>  
Distinct:<col1>  
Condition:<col1> <op>  
<value> Orderby:NA  
Groupby:NA  
Having:NA
3. Input : select \* from <table1>, <table2> where <col1>=<col2> groupby <col1>  
having <col1>=<50> orderby <col2>;  
Output:  
Querytype:select  
Tablename:<table1>,<table2>  
Columns:<col1>,<col2>,...  
Distinct:NA  
Condition:<col1>=<value>  
Orderby:<col2>  
Groupby:<col1>  
Having:<col1>=<50>
4. Input : create table <table1> (<col1> <datatype>,<col2>  
<datatype>,...) Output:  
Querytype:create  
Tablename:<table1>  
Attributes:<col1> <datatype>,<col2> <datatype>...
5. Input : select <col1>,<col2> from  
<non\_existing\_table> Output:  
Query Invalid

**Print “Query Invalid” if the query is invalid else print as mentioned above.**