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:

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  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: 
      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.

Due Date: 11:59 pm, 12 February 2014