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) {
       *
               Determine the type of the query (select/create) and
               invoke appropriate method for it.
       */
}
void createCommand(String query) {
       K
               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:
```

Print "Query Invalid" if the query is invalid else print as mentioned above.

Query Invalid

"Do a complete analysis of how parameters in the config file like No. of pages, pageSize (or any other parameter which you took into account while implementation) effect LRU caching. The anlaysis should be supported by appropriate graphs, visuals etc. Generate some datasets to try with different values of these parameters."

Due Date: 11:59 pm, 26 September 2014