

MINI-SQL-ENGINE

- 1.Extract the first argument from the command line.
- 2.I have removed the semicolon from the query inorder to make sure that the query works even if the semicolon is not present at the end.
- 3.Extract all the keywords from the argument.
- 4.Based on the keywords present and no.of keywords present after the select word in the query execute the corresponding queryfunction.

Select_all_query

- 1.In the select_all query I have assumed all the tables will have same no.of rows and this query prints the output according to that.

read_metadata

- 1.This function reads the metadata textfile and stores the tables and the attributes present in the file in a dictionary where keys are the tables and values for a particular key consists of the attributes present in that table.

read_csv

- 1.This function reads a csv file and returns the data present in it.

read_column_in_csv

1.This function reads a particular column in the given csv file and returns the data present in that particular column in the given csv file.

aggregate_query

1.This function performs sum,max,min,average type of queries on a particular column in the given table.

sel_columns

1.This function selects one or more columns from a particular table or one or more columns from different tables.

The other two functions are **join_query** and **select_from_where_query**.

Error Handling

1.If the first keyword present is not “select” then it returns an error and program terminates.

2.If the no.of keywords present is less than 4 then it returns an error.

3.In the select_all_query function if the table requested by the user is not present then it returns an error.

4.read_metadata and read_csv returns an error if the requested file is not present or if it's path is wrong.

5.req_column_in_csv returns an error if the requested table or column is not present.

6.sel_columns function returns an error if the requested table or column is not present.