DATA ANALYSIS TOOL
USER'S GUIDE
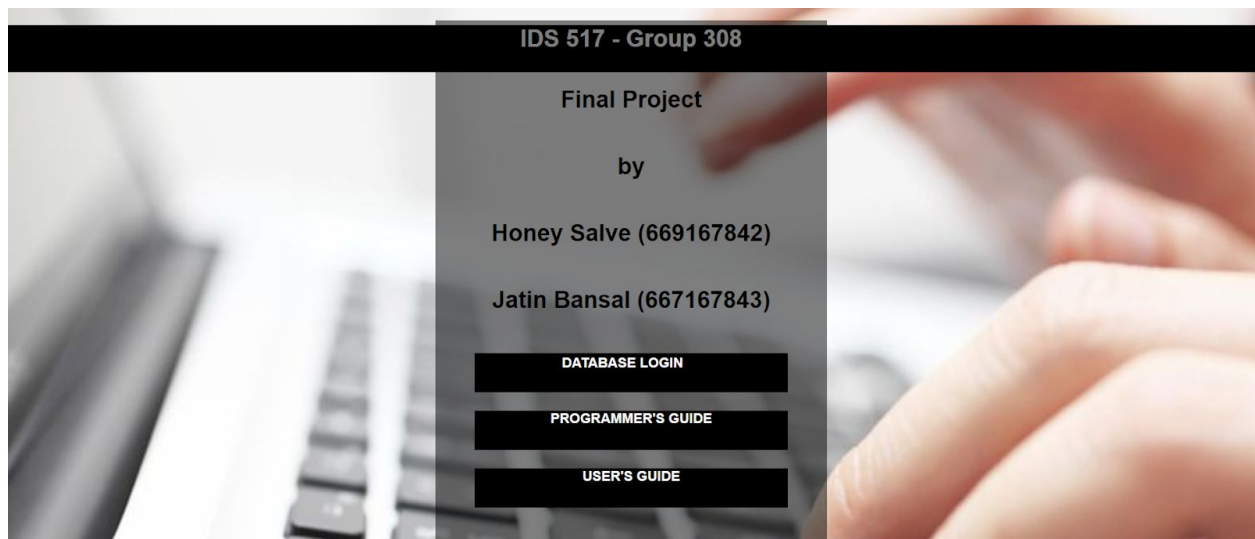
- **GROUP 308**

HONEY SALVE

JATIN BANSAL

Home Page

This page contains details of the project owner and the following 3 button.

- **DATABASE LOGIN -** Takes user to login page
- **PROGRAMMER'S GUIDE -** Takes user to programmers guide
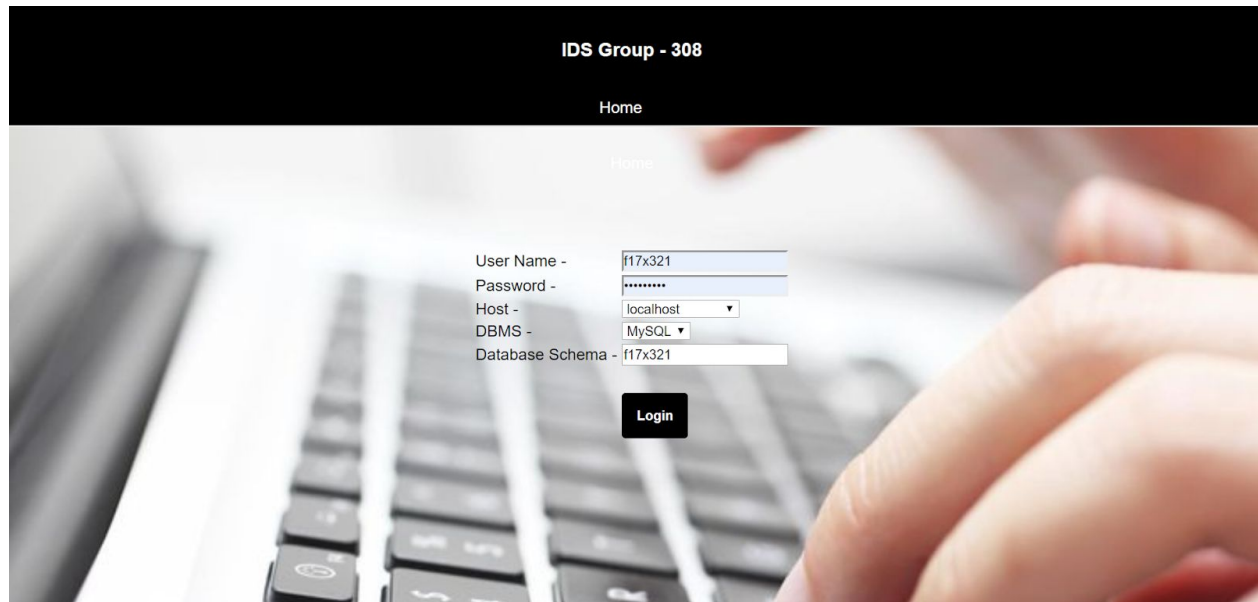- **USER'S GUIDE -** Takes user to user's guide

Database Login Page

This page ask for user credentials before letting him inside the application. It asks for the following information:-

- User name
- Password
- Host
- DBMS
- Database Schema

After user fills in the correct information and click on Login, it takes user to MAIN MENU.
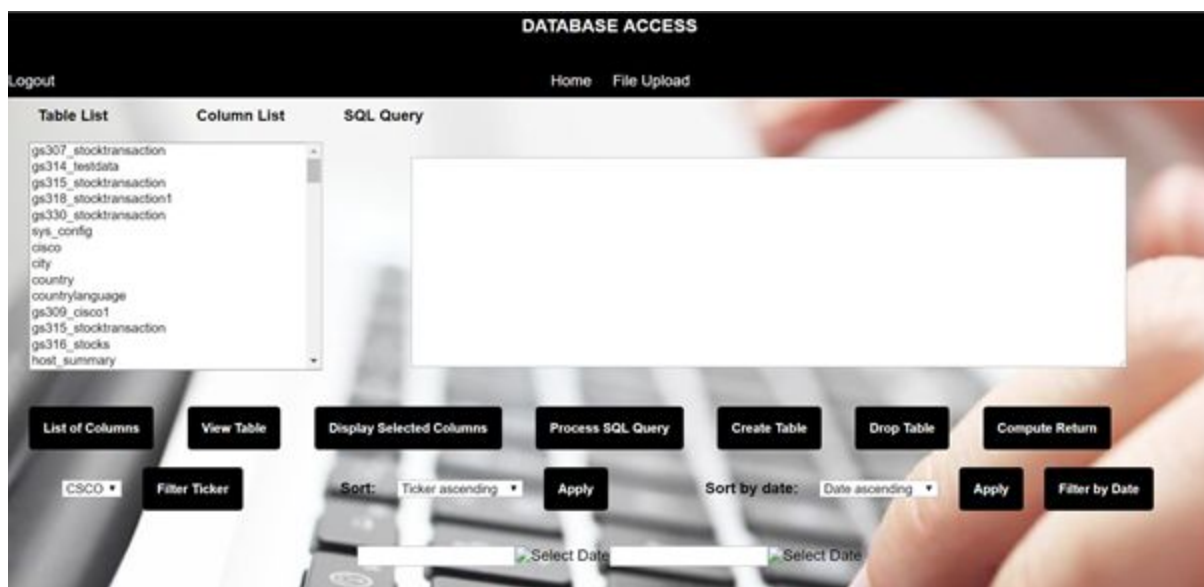
Database Access

This section lets user interact with table uploaded in database. Following are the different operation User can perform:-

- **List of columns** – Gives list of columns in "Column List" of selected table from "Table List".
- **View Table** – Shows all the records of the selected table in "Table List".

- **Display Selected columns** – Show all the records of the selected table in "Table List" and selected columns in "Column List".
- **Process SQL Query** – Show records as per the query entered in "SQL Query Box".
- **Create Table** – Create table "gs308_stocktransaction" in the database.
- **Drop Table** – Drop table "gs308_stocktransaction" from the database.
- **Compute Return** – Return the Dailyreturn value for every row in the table as per the Filter Ticker
- **Filter Ticker** – Allows you to filter data according to the chosen ticker – ORCL, CSCO.
- **Filter by Date** – Allows you to filter data according to the selected date range.
- **Sort** – Sort the records on "ticker" in ascending or descending order
- **Sort by Date** – Sort the records on "transactiondate" in the table in ascending or descending order.

File Upload

This section is used for uploading the files which contains data. It consist of following operations.

- Click on Choose file to select file whose data is to be loaded.
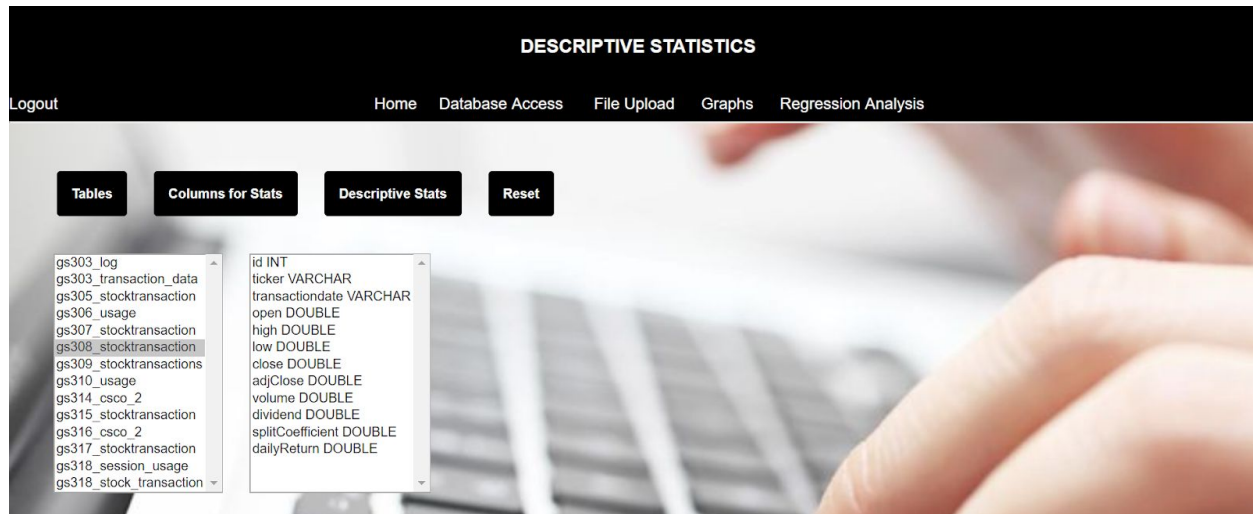- Select File Type from the drop down. It can be csv, excel or tsv.

- Click on Upload to load the File. Once successfully uploaded, Success message with File Name, File Size and File Content will be displayed.

Descriptive Statistics

This section is used for showing descriptive statistics for selected columns for selected table. It consist of following 4 tabs
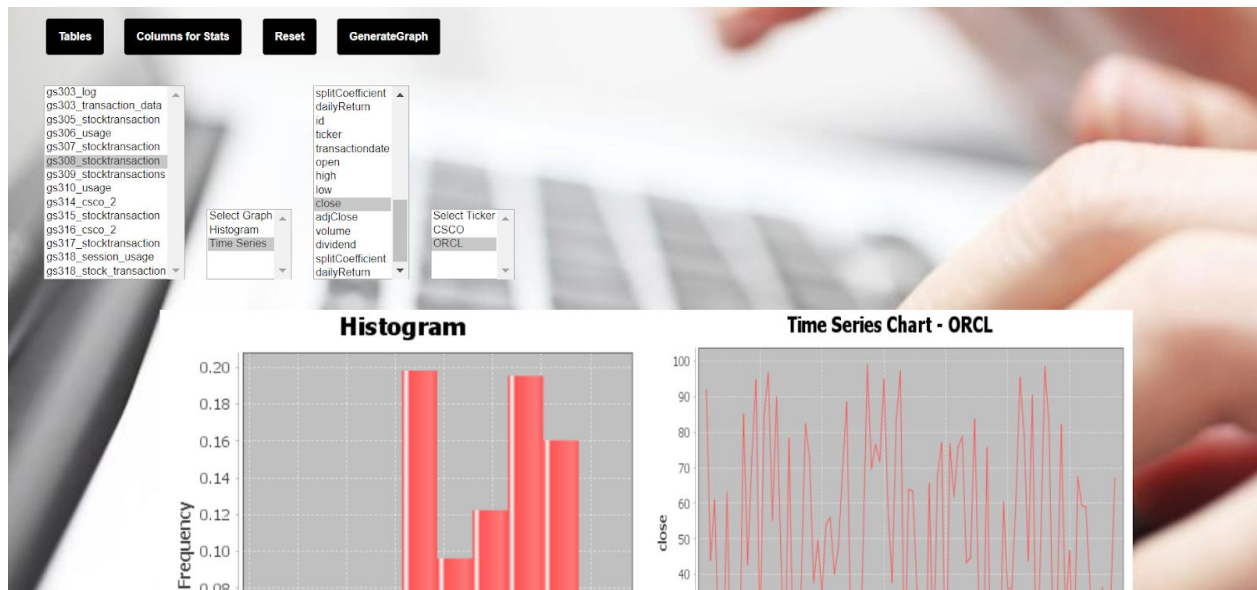
- **Tables** - Select table whose columns are to be selected.
- **Columns for stats** - Select columns whose descriptive stats are to be seen.
- **Descriptive stats** - Clicking this will give you the Statistics for selected columns. It shows Minimum Value, Maximum Value, Mean, Median , Variance, Standard Deviation, quartile One, quartile Three, Range and interquartile Range in a tabular format
- **Reset** - Clinking this will remove all the previous statistics table from UI and available for rerun.

Graphs:

This section is for displaying the regression report and corresponding graphical representations. It consist of following 5 tabs:-

- **Tables -** Select Table for regression Report and graphs.
- **Columns for regression -** Gives user an option for selecting Predictor Value, Response Value, Predictor Ticker and Response Ticker
- **Regression report -** generate regression report for the values selected in "Columns for Regression".
- **Generate graph -** Generate graph for regression report variables.
- **Reset-** Allows user to reset UI and generate regression report and graph again.

Regression: