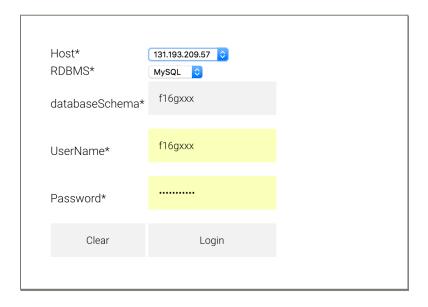
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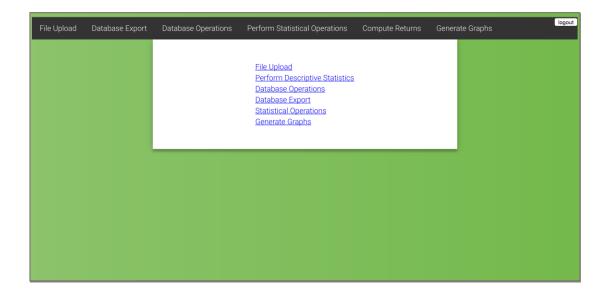


User Guide for s17g308 Data Analysis Application

DATABASE LOGIN



- Login by filling up the correct credentials and selecting the appropriate database server in the database login page.
- When the login is successful, the following page appears:



DATABASE INTERACTION

File Upload:

File Upload	Database Export	Database Operations	Perform Statistical Operations	Compute Returns	Generate Graphs	logout
		File Type:	0 0			
			Metadata Data			
		Select File to upload:	Choose File No file chosen			
		File Label:				
		File Format:	Tab Delimited 😊			
		Header Row:	Yes 💸			
			Upload			

Data files (excel,csv or text) can be uploaded. The steps include:

- Loading the metadata by choosing the file and naming the file label.
- Loading data to given file label.

It should be ensured that the file format and header row are set according to the requirements of the file type.

After importing the data the user will have the option to unselect rows with problematic data and refrain from importing them altogether.

Database Operations:

File Upload	Database Export	Database Operations	Perform Statistical Operations	Compute Returns	Generate Graphs	logout
Tables Columns	Display Table Display	Columns Execute Query Dro	o Table Clear			
Table List	Column List Plea	ase enter your query here.				
RESULT						
Columns Affected						
ш						

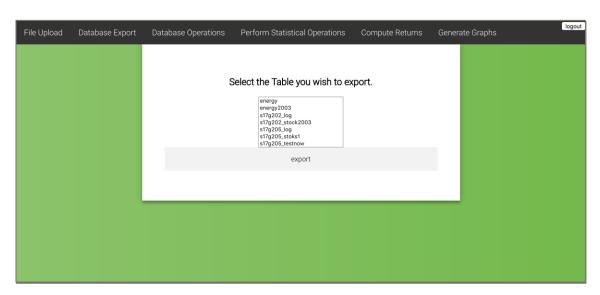
The database operations page consists of tables available in the database and an area to display all the columns of any table selected.

The operations include:

- Selecting a table
- Selecting columns in a table.
- Displaying the table
- Dropping tables
- Executing a query

Specific data can be extracted from the columns by using database queries.

Database Export:



Any data that has been imported based on the acceptable file type (excel, csv or text) can be exported back in the same form as shown above.

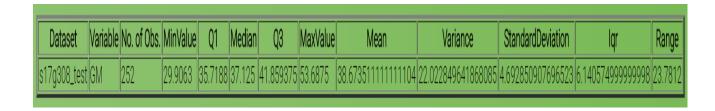
STATISTICAL OPERATIONS

This page allows us to perform two types of operations:

- descriptive statistics of the selected column(s) of a given table.
- simple regression analysis of a given table.

Descriptive Statistics:

- On selecting a particular table, enter the column name (from the column list) for which the descriptive statistics are required.
- Click on 'Descriptive Statistics' to get the output.



Simple Regression:

- On selecting a particular table, enter the column names which are to be designated as 'predictor' and 'response' variable.
- Click on 'Regression Analysis' to obtain the regression parameters.

Regressio	n Model							
Predictor	Co-efficient	Standard Error C	andard Error Co-efficient T-			P-Value		
Constant	43.75123859977384	2.41239533012	48426	18.13601529	92945245	1.5147221438284465E-4	7	
GM	1.3748214471289977	0.06192603385	065746	22.20102534	46537698	3.760245490151447E-61		
R Square(Co-efficient of Determination)			0.6634743966559212					
	ndard Error							
R Square Adjusted(Co-efficient of Determination)			0.6621228	88208/562				
Analysis o	f Variance							
	FVariance Degrees of Freedo	om(DF) Sum of S	Squares	Mean of S	Squares	F-Statistic	P-Value	
Source	Degrees of Freedo					F-Statistic 492.88552643760926		
Analysis o Source Regressio Residual E	Degrees of Freedo	10448.16		37 10448.16		492.88552643760926	P-Value 0.0	

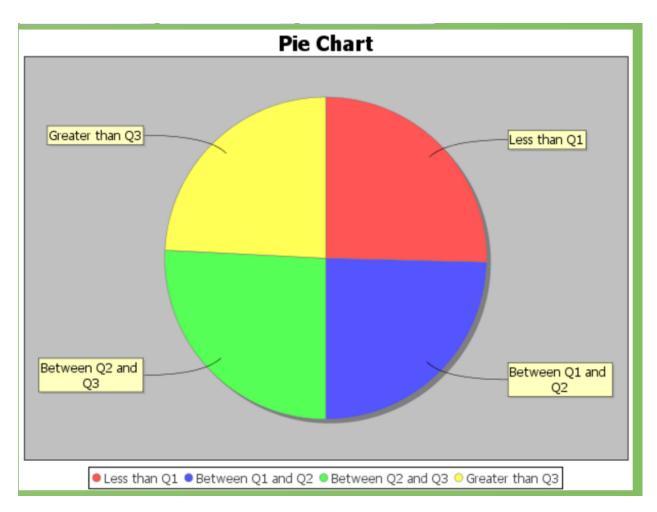
GRAPHICAL ANALYSIS

This page of the application provides the facility to the user to generate four different kind of graphical representation of the selected data values.

We can generate any of the following graphs from this functionality of the application-

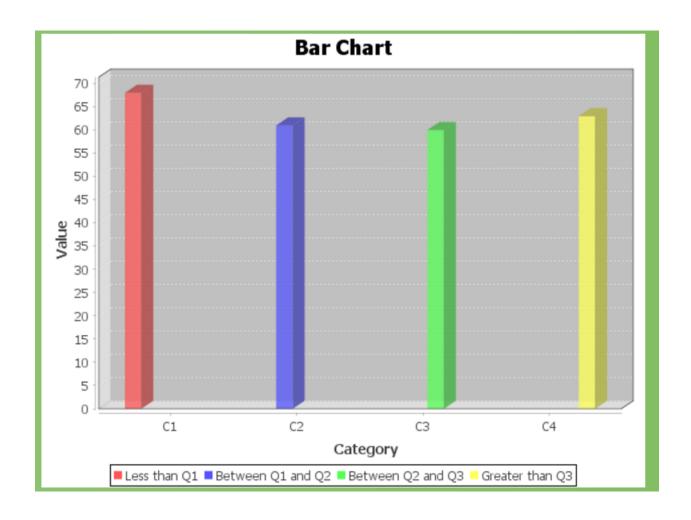
1. Pie Chart

It requires user to select the data set and any one column name from the selected dataset.



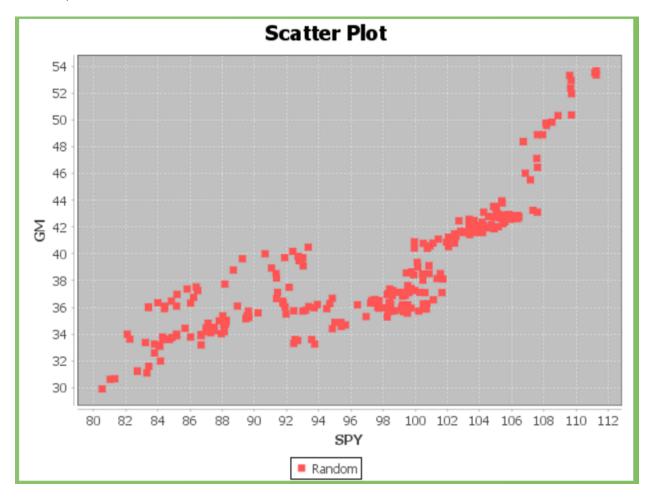
2. Bar Plot

Generation of this plot also requires user to select the data set and any one column name from the selected dataset.



3. Scatter Plot

This requires user to select a dataset and two variables (Predictor variable and Target variable).



4. Time-Series Plot

To generate Time – Series plot, user needs to select a dataset and two column names , which forms the Predictor and the Target Variable.



