

USER MANUAL

FOR

DATA ANALYSIS

By

Group

S17g304

Contents

Page no.

1 Login Page	3
2 Main Menu	3
3 Data Import	4
4 Data Export	5
5 Database Options	5
6 Statistical Analysis	6
7 Graphical Analysis	7
8 Access Logs	8

User Guide

for application created by s17g304

Login Page

When the application is run by the client the first page that is rendered is the login page.

Database Login

[Home](#)

A screenshot of a web form titled 'Database Login'. The form has a light yellow background and a dark border. It contains five input fields: 'Username*' with the text 'f16gxxx', 'Password*' with masked characters '*****', 'Database*' with a dropdown arrow, 'Server*' with a dropdown arrow, and 'Schema*' with an empty text box. Below these fields is a 'Login' button.

The user has to entered the required credentials to gain access to the application functionalities.

Main Menu

Main Menu

[Data Import](#)

[Data Export](#)

[Database Options](#)

[Descriptive Statistics](#)

[Graphical Analysis](#)

[Access Logs](#)

[Logout](#)

From these the user may depending on requirements may choose any of the above options. However, if the user is running this for the first time the database will be empty and he won't be able to perform some critical functionalities. Therefore, it is a suggestion to first upload data onto database.

DATA IMPORT

Import

[Main Menu](#)[Logout](#)

Select file to upload: [Choose File](#) No file chosen

File label:

Dataset label:

File Type:

metadata ▲
data
other ▼

File Format:

CSV ▼

Header Row

Yes ▼

[Submit](#)

The user can enter a file (CSV,TEXT).There is a procedure which should be followed which is

Enter metadata first

Only, after that data can be entered. If the data has bad rows then the user has the option to upload the data or abandon the process.

Bad data:Either due to null values or wrong datatype Number of rows in which missing values :1 , Number of rows in which wrong data type :1

Error caused due to row number: 3,5

Rownumber	OilGal	double	Temperature	double	Insulation	int
3	chamar	40	10			
5		64	6			

[Continue Upload](#)

[Don't Upload](#)

DATA EXPORT

Export

[Main Menu](#) [Logout](#)

Schema :

[TableList](#) [Export CSV](#) [Export XML](#)

majors
s17g201_accesslog
s17g202_log
s17g204_accesslog
s17g205_energy
s17g205_log

DATABASE

OPERATIONS

Database Options

[Main Menu](#) [Logout](#)

Schema :

[TableList](#) [ColumnList](#) [DisplayTable](#) [DisplaySelectedColumns](#) [ProcessSQLQuery](#) [DropTables](#) [Initiate Compute](#) [Compute](#)

Select Table

majors
s17g201_accesslog
s17g202_log
s17g204_accesslog
s17g205_energy
s17g205_log

CRUD operations as well as Computing returns can be performed on any table. However compute returns would only make sense for some type of data.

Select Source	Select Destination
OilGal	OilGal
Temperature	Temperature
Insulation	Insulation
TRANS_DATE	TRANS_DATE
DIA	DIA
SPY	SPY

For computing returns a source column and a destination columns should be selected.

STATISTICAL ANALYSIS

Statistical Analysis

Schema : f16gxxx ▼

<input type="button" value="TableList"/>	<input type="button" value="ColumnList"/>	<input type="button" value="TableMetaData"/>	<input type="button" value="GetStatistics"/>	<input type="button" value="SelectVariables"/>	<input type="button" value="RegressionAnalysis"/>	<input type="button" value="Reset"/>
--	---	--	--	--	---	--------------------------------------

f5 majors s17g201_accesslog s17g202_log s17g204_accesslog s17q205 energy

To perform Regression analysis variables(predictor and response) have to be selected first

Column Selected	Minimum Value	Maximum Value	Mean	Variance	Standard Deviation	Q1	Q3	Range	IQR
OilGal	31.4	441.1	226.41	17323.6	131.62	94.3	323.0	409.70000000000005	228.7
Temperature	8.0	65.0	37.0	406.6	20.16	21.0	58.0	57.0	37.0
Insulation	3.0	10.0	7.0	9.6	3.1	3.0	10.0	7.0	7.0

Mean,Median,Mode,Variance,Standard Deviation and other parameters shown above when **Get Statistics** is hit

t5
majors
s17g201_accesslog
s17g202_log
s17g204_accesslog
s17g205_energy

Select Independent Variable
OilGal
Temperature
Insulation

Select Dependent Variable
OilGal
Temperature
Insulation

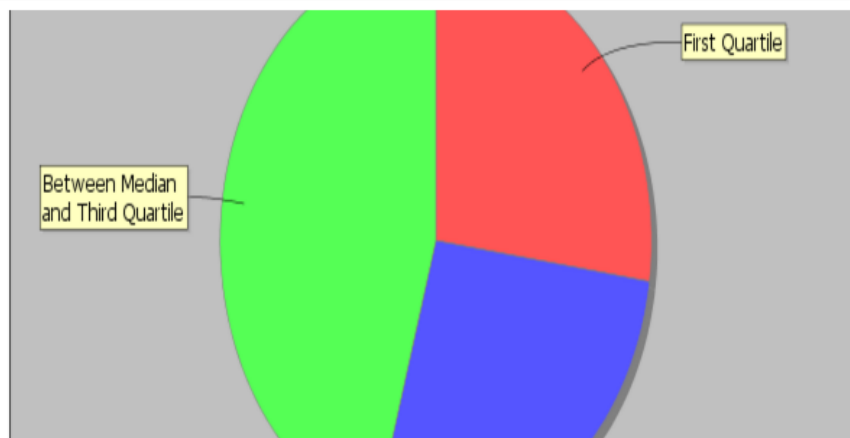
GRAPHICAL ANALYSIS

Generate Graph

Select Chart Type
Pie Chart
Bar Graph
Scatterplot
TimeSeries

t5
majors
s17g201_accesslog
s17g202_log
s17g204_accesslog
s17g205_energy

OilGal
Temperature
Insulation



A user can select four kind of graphs depending upon appropriateness of data and user choice.

IP ACCESS LOGS

Schema : f16gxxx ▼

GenerateLogs

LogID	Username	dbms	LoginTime	LogoutTime	IPAddress	SessionID
1	f16gxxx	f16gxxx	2017-04-27 23:03:13.158		0:0:0:0:0:0:1	BD0949EC73677FA564A90CEB344BEEB3
2	f16gxxx	f16gxxx	2017-04-27 23:16:08.512		10.0.0.222	DB00E46D2DDC2A8A992CD5D9C73E6C6D
3	f16gxxx	f16gxxx	2017-04-27 23:19:37.146		10.0.0.222	DB00E46D2DDC2A8A992CD5D9C73E6C6D
4	f16gxxx	f16gxxx	2017-04-27 23:22:02.553		0:0:0:0:0:0:1	6AC4862E60E2C63DDE19E5EDFD37A79A
5	f16gxxx	f16gxxx	2017-04-27 23:25:39.689	2017-04-27 23:25:43.975	0:0:0:0:0:0:1	D78DDFEC59ED147892CEA6C301672E39
6	f16gxxx	f16gxxx	2017-04-27 23:28:30.457	2017-04-28 00:00:23.285	0:0:0:0:0:0:1	673896AE7A77AE0418B3B74B14F87655
7	f16gxxx	f16gxxx	2017-04-28 00:00:36.157	2017-04-28 00:12:58.38	0:0:0:0:0:0:1	FEE3CE52D5F1C262FCE8F43068605F0E
8	f16gxxx	f16gxxx	2017-04-28 00:13:10.507		0:0:0:0:0:0:1	B03976D8A32BDBFED7AF920499A98BFD
9	f16gxxx	f16gxxx	2017-04-28 00:13:39.089		0:0:0:0:0:0:1	9A2EF56A59BDB151DBAFC7CB7CAADB5E