

## Welcome to Data Analysis Tool

This document will help you to navigate across our application and also give information about features available and how to use them.

### Welcome Screen

s16g21 - Home

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On welcome screen you can see multiple options provided to access database. Each option is described below

#### 1. Database Access

The screenshot shows the 'Database Access' interface. At the top, there is a 'Home' button. Below it, there is a dropdown menu currently showing 'World' and a 'Logout' button on the right. Underneath these are six buttons: 'Table List', 'Column List', 'Display Table', 'Display Selected Columns', 'Process SQL Query', and 'Copy Tables'. At the bottom of the interface is a large, empty rectangular box, likely intended for displaying data or results.

- **Home** button can be used to navigate to welcome screen
- **Drop down menu** is provided to select appropriate schema
- **Table List** option will provide list of all tables selected schema
- **Column List** will populate all columns in selected table from specified schema
- **Display Table** option will help you to display data from selected tables
- **Display Selected Columns** menu will help you to display from selected table but only for specified columns instead of entire data
- **Process SQL Query** option can be used to run user ad-hoc query's
- **Copy Table** option can be used to copy tables from one schema to other schema i.e. from world schema to user defined schema
- **Drop Table** option is available only when you select user schema and this option can be used to delete tables

#### Additional Feature:

Code	Name	Continent	Region	SurfaceArea	IndepYear	Population	LifeExpectancy	GNP	GNPOld	LocalName	GovernmentForm	HeadOfState	Capital	Code2
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Once you displayed table, you can sort in ascending or descending order by clicking on the column header.

2. Data Analysis Page

Home

World

Table ListColumn ListDisplay StatisticsDependent VariableIndependent VariablesCalculate Regression Model

citycountrycountrylanguage

s16g30\_activity\_logstocktstocku

- **Table List** option will help you to select tables on which you need to perform data analysis
- **Colum List** will populate columns from selected table
- **Display Statistics** option will generate statistics for selected numeric columns as shown below

	Mean	Median	Minimum	Maximum	Standard Deviation	Variance	Quartile 1	Quartile 3	Inter Quartile Range	Range
SurfaceArea	623248.1422594142	71740.0	0.0	1.70754E7	1924139.8533532366	3.702314175262215E12	2040.0	406752.0	404712.0	1.70754E7
LifeExpectancy	61.33472803347281	69.0	0.0	83.0	20.301635252814698	412.15639393832845	54.0	75.0	21.0	83.0
GNP	122823.87866108789	4787.0	0.0	8510700.0	637997.5795150454	4.0704091146705664E11	630.0	32852.0	32222.0	8510700.0

- **Dependent Variable** will let you choose dependent variable for your regression analysis.
- **Independent Variable** will let you choose independent variables for regression model.
- **Calculate Regression Model** will generate regression model based on your selected variables sample result in shown below.

Home

World

Logout

Table ListColumn ListDisplay StatisticsDependent VariableIndependent VariablesCalculate Regression Model

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SurfaceAreaIndepYearLifeExpectancyGNP

GNPOLDCapital

Equation :  $y(\text{Population})=2.56061375E7*\text{SurfaceArea}-65.26597732094382*\text{LifeExpectancy}-76352.84391533693*\text{GNPOLD}$

Regression Parameters

Columns	Beta Value	Residuals	Standard Errors
SurfaceArea	2.56061375E7	4.470348358154297E-8	7161677.887092667
LifeExpectancy	-65.26597732094382	-2.644956111907959E-7	282.1513873399045
GNPOLD	-76352.84391533693	2.0489096641540527E-7	2916736.2344650724

Regressand	R Squared	Sigma
1.1955195630549664E16	2.8596669138503117E-4	1.1001978330009297E8

3. Data Import

Home

Select file to upload: Choose File No file chosen

File Label:

Submit

**Data Import** option can be used to import data into database from CSV or XML file format.

#### 4. Data Export



**Data Export** option is used to export data in CSV file format or XML file format as shown above and schema can be selected using drop down menu.

#### 5. Access Logs

[Home](#)

<a href="#">user</a>	<a href="#">dbschema</a>	<a href="#">ipAddress</a>	<a href="#">loginTime</a>	<a href="#">logOutTime</a>
s16g21	world	10.1.209.57	04/22/2016 02:06:28	04/22/2016 02:08:07
s16g21	world	10.1.209.57	04/22/2016 02:27:16	

Access logs can be accessed using Access Logs menu which will show all access activities on database application.

#### 6. Help Document

As you are reading this document so you have already figured out what this option does... 😊