

What next after Creating a PivotTable (Workbook: OilRefineryCapacities.xlsx)

PivotTable allows you to create summary reports. What next. After creating summary report is it possible to perform additional calculation on PivotTable output. Let's say you might want to calculate descriptives (Mean, Median, Mode, Variance, Standard Deviation, Skewness, Kurtosis), or you might want to run Correlation, Regression, ANOVA, Chi-Square etc. Is this possible? The answer is absolutely yes. You can.

OilRefineryCapacities.xlsx furnishes you the Oil Refinery Capacities of 21 countries for the period 2000 to 2012. With this data you can learn what other calculations that you can run on PivotTable report.

First create a PivotTable by placing cursor anywhere on the source data, from Menu bar click **Insert** tab, then click **PivotTable** (PivotTable dialogue box opens), check whether source data is properly selected, choose **New Worksheet** for PivotTable report, and click **OK**. A Skelton PivotTable appears on screen. Now drag **Year** to **Row Labels**, **Country** to **Column Labels**, and **Capacity** to **Values**. PivotTable presents 13 years summary report of oil refinery capacities belongs to 21 countries.

Now shortlist first five countries (alphabetical order) using **Filters**. To do this first click the **down arrow on Column Labels**, from the drop down list, **disable** (uncheck) **Select All**, and then **enable** (check) **first five countries** and then click **OK**. PivotTable portrays oil refinery capacities of select five countries.

On this PivotTable report data, you might want to run descriptive statistics. For that click the **Data** tab on Menu bar, from the **Data Ribbons** click **Data Analysis** (Data Analysis is an Excel Add-In, if it doesn't appear on ribbons bar, enable it using Excel Options – Add-Ins – Analysis Toolpak).

Data Analysis dialogue box appears on screen, select **Descriptive Statistics** and click **OK**. Descriptive Statistics dialogue box appears on screen. Select the **Input Range**, **Output Range**, **Summary Statistics**, and click **OK**. PivotTable depicts the Summary Statistics of select five countries

You might want to run hypothesis testing using ANOVA for the select five companies. On the PivotTable output, to run ANOVA test, click the **Data** tab on Menu bar, from the Data Ribbons click **Data Analysis**, Data Analysis dialogue box appears on screen, select **ANOVA** and click **OK**. ANOVA Single Factor dialogue box appears on screen. Select the **Input Range**, **Output Range**, and click **OK**. ANOVA output is ready for your interpretation.