

**Two Dimensional PivotTable (Cross Tabulation)** (Worksheet: NorthCentralFTWorkers.xlsx)

Two dimensional PivotTable facilitates you to create cross tabulations. In one PivotTable table you can visualize data from two dimensions.

To create a two dimensional PivotTable, drag and drop one categorical variable into **Row Labels**, then, drag and drop second categorical variable into **Column Labels**. Finally, drag and drop numerical variable or categorical variable into **Values**.

For example, the excel sheet provides you data pertaining to different categories of workers. On these data you want to know the count or number of workers according to their **Gender** and **Race**.

To know this, on Menu bar click **Insert** tab and then click **PivotTable** button. **Create PivotTable** dialogue box appears on the screen. Make sure that the data is correctly selected and click **OK**, a skeleton PivotTable appears on screen.

Now drag **Sex** to **Row Labels**, and **Race** to **Column Labels**, as you need **Count** of the workers, once gain drag **Race** into **Values**.

The Pivot Table is now automatically filled in with data. You can see category wise breakup of workers. There are 2600 female workers and 3766 male workers. Female black workers are 339 and Male white workers are 3405