**LAB MANUAL**

**Chapter 6 | ARTIFICIAL INTELLEGENCE**

**self-practice 10**



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**PowerBI Self Practice**

**TASK 1**

**Import a CSV file containing sales data into Power BI. The file contains columns: Date, Product, Sales, and Region.**

**Solution:**

1. Open Power BI Desktop.
2. Click on Home -> Get Data -> Text/CSV.
3. Browse to the CSV file and click Open.
4. Preview the data and click Load.

**TASK 2**

**Create a bar chart that shows total sales for each product.**

**Solution:**

1. Go to the Report view.
2. Click on the Bar Chart visual in the Visualizations pane.
3. Drag the Product field to the Axis area.
4. Drag the Sales field to the Values area.
5. The bar chart will display total sales for each product.

**TASK 3**

**Create a bar chart that shows total sales for each product.**

**Solution:**

1. Go to the Report view.
2. Click on the Bar Chart visual in the Visualizations pane.
3. Drag the Product field to the Axis area.
4. Drag the Sales field to the Values area.
5. The bar chart will display total sales for each product.

**TASK 4**

**Create a calculated column that categorizes sales into High (sales > 1000) and Low (sales <= 1000).**

**Solution:**

1. Go to the Data view.
2. Click on Modeling -> New Column.
3. Enter the following DAX formula:

SalesCategory = IF([Sales] > 1000, "High", "Low")

1. Press Enter. The new column will categorize sales as High or Low.

**TASK 5**

**Create a line chart to show sales trends over time.**

**Solution:**

1. Go to the Report view.
2. Click on the Line Chart visual in the Visualizations pane.
3. Drag the Date field to the Axis area.
4. Drag the Sales field to the Values area.
5. The line chart will display sales trends over time.

**TASK 6**

**Create a pie chart that shows the proportion of total sales for each region.**

**Solution:**

1. Go to the Report view.
2. Click on the Pie Chart visual in the Visualizations pane.
3. Drag the Region field to the Legend area.
4. Drag the Sales field to the Values area.
5. The pie chart will display the proportion of total sales for each region.