**Case studies**

1. Consider that you are with the following data table and its associated graph: Stacked Bar Chart, Line Plot, Scatter Plot and Mosaic Plot, Histogram.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Age | Daily consumption | | | |
| Dairy | Staple Food | High-CalorieFood | Supplements |
| 0- 10 | 50 | 30 | 10 | 10 |
| 11- 30 | 35 | 45 | 15 | 5 |
| 31- 50 | 25 | 55 | 13 | 7 |
| 51- 80 | 40 | 40 | 4 | 16 |

2. **Product Inventory Management -** Stacked Bar Chart, Line Plot, Scatter Plot and Pie Plot, Histogram.

|  |  |  |
| --- | --- | --- |
| **Product ID** | **Product Name** | **Quantity Available** |
| 1 | Product A | 250 |
| 2 | Product B | 175 |
| 3 | Product C | 300 |
| 4 | Product D | 200 |
| 5 | Product E | 220 |

3. **Website Analytics -** Stacked Bar Chart, Line Plot, Scatter Plot and Pie Plot, Histogram.

|  |  |  |
| --- | --- | --- |
| **Date** | **Page Views** | **Click-through Rate** |
| 2023-01-01 | 1500 | 2.3% |
| 2023-01-02 | 1600 | 2.7% |
| 2023-01-03 | 1400 | 2.0% |
| 2023-01-04 | 1650 | 2.4% |
| 2023-01-05 | 1800 | 2.6% |

4. **Time Series Analysis – Scatter plot, Line Graph**

|  |  |
| --- | --- |
| **Month** | **Sales (in $)** |
| January | 15000 |
| February | 18000 |
| March | 22000 |
| April | 20000 |
| May | 23000 |

5. **Website Traffic Analysis – All the possible graphs**

|  |  |  |
| --- | --- | --- |
| **Date** | **Page Views** | **Click-through Rate** |
| 2023-01-01 | 1500 | 2.3% |
| 2023-01-02 | 1600 | 2.7% |
| 2023-01-03 | 1400 | 2.0% |
| 2023-01-04 | 1650 | 2.4% |
| 2023-01-05 | 1800 | 2.6% |