1. Product Inventory Levels

1. Generate Line Plot
2. Describe inventory with a Bar plot
3. Visualize inventory levels with box plot

|  |  |  |  |
| --- | --- | --- | --- |
| Product | Warehouse A | Warehouse B | Warehouse C |
| Product X | 200 | 150 | 100 |
| Product Y | 150 | 100 | 50 |
| Product Z | 300 | 250 | 200 |
| Product W | 100 | 150 | 200 |

2. Annual Rainfall

1. Generate Scatter Plot
2. Describe with a Doughnut Pie plot
3. Visualize with Grouped Bar plot

|  |  |  |  |
| --- | --- | --- | --- |
| Year | City A (mm) | City B (mm) | City C (mm) |
| 2019 | 1200 | 800 | 900 |
| 2020 | 1150 | 850 | 950 |
| 2021 | 1230 | 870 | 990 |
| 2022 | 1180 | 900 | 950 |

3. University Enrollment

1. Generate Pie Plot
2. Describe with a Violins plot
3. Visualize with Funnel plot

|  |  |  |  |
| --- | --- | --- | --- |
| Year | Undergraduate | Postgraduate | International |
| 2019 | 15000 | 5000 | 3000 |
| 2020 | 15200 | 5100 | 3200 |
| 2021 | 15500 | 5200 | 3300 |
| 2022 | 15800 | 5300 | 3400 |

4. Social Media Followers

1. Generate Stacked Bar Plot
2. Describe with a Histogram plot
3. Visualize with Line plot

|  |  |  |  |
| --- | --- | --- | --- |
| Month | Facebook | Instagram | Twitter |
| January | 12000 | 15000 | 8000 |
| February | 12500 | 15500 | 8200 |
| March | 13000 | 16000 | 8400 |
| April | 13500 | 16500 | 8600 |

5. Energy Consumption

1. Generate Line Plot
2. Describe with a Bar plot
3. Visualize with Radar plot

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sector | Q1 (kWh) | Q2 (kWh) | Q3 (kWh) | Q4 (kWh) |
| Residential | 5000 | 6000 | 7000 | 6500 |
| Commercial | 8000 | 7000 | 6000 | 7500 |
| Industrial | 9000 | 9500 | 10000 | 9500 |
| Transportation | 4000 | 4200 | 4300 | 4100 |