**Project**

**On**

**Excel with AI Project**

**Sales and Revenue Analysis:**

**Objective:**

To analyze sales data to derive insights on revenue, profit, and trends using an Excel sheet. The analysis includes calculating derived metrics, answering formula-based questions, and visualizing data for better understanding.

**Data Overview**

The dataset contains the following key columns:

* **City**: Location of sales.
* **Unit Price**: Price per unit of a product.
* **Quantity**: Number of units sold.
* **Total**: Total sales amount (including tax).
* **Gross Income**: The income generated before tax.
* **Date**: The date of the transaction.
* **Rating**: Customer satisfaction rating.

Here's a concise and professional documentation template for your **Sales and Revenue Analysis** project:

**Analysis Steps**

**1. Derived Columns**

**Net Profit**

* **Formula**: Total - Gross Income
* **Implementation**:
  1. Insert a new column named **Net Profit**.
  2. Use the formula:

=J2-P2

Answers: The first five rows is

|  |
| --- |
| 19:55 |
| 09:36 |
| 07:26 |
| 18:14 |
| 04:04 |

**b) Average Unit Price**

* **Formula**: Use Excel's **AVERAGE** function.
  1. In an empty cell, type:

=AVERAGE([g2:g1001])

Answer: 19:55

**2. Formula-Based Questions**

**a) Total Gross Income**

* **Formula**: Use Excel's **SUM** function.
  1. In an empty cell, type

=SUM([p2:p1001])

Answer: 15379.369

**b) Average Rating**

* **Formula**: Use Excel's **AVERAGE** function.
  1. In an empty cell, type:

Copy code

=AVERAGE([q2:q1001])

Answer: 6.9727

**3. Visualizations**

**a) Bar Chart for Gross Income by City**

1. Select the **City** and **Gross Income** columns.
2. Go to the **Insert** tab → Choose **Bar Chart** → Select a preferred style.
3. A screenshot of a graph

   Description automatically generated

**b) Line Chart for Total Sales Over Date**

1. Select the **Date** and **Total** columns.
2. Go to the **Insert** tab → Choose **Line Chart** → Select a preferred style.

A screenshot of a graph

Description automatically generated