Data Analytics Cohort IV

Excel Formulas Assignment 1

Instructions

1. This assignment will help you practice essential Excel formulas for data analysis. You will work on SUM, COUNT, COUNTA, COUNTBLANK, AVERAGE, MIN, MAX, and IF functions using the provided dataset.
2. Open the Excel workbook provided. Each formula has a dedicated worksheet.
3. Read the business problems carefully and apply the correct Excel formula to find the answers.
4. Enter your answers in a new column next to the relevant data.
5. After completing all questions, save your workbook and submit it as per the given instructions.

1. SUM

1. Calculate the **total sales revenue** from all transactions.
2. Find the **total quantity of products** sold.
3. Compute the **total price** incurred in purchasing inventory.

2. COUNT

1. Determine the **total number of transactions** recorded.
2. Count the **number of unique products** sold.
3. Count how many orders were made

4. COUNTA

1. Count the number of **filled customer names** in the dataset.
2. Count the number of **products with recorded sales**.
3. Determine how many rows contain **non-empty revenue values**.

4. COUNTBLANK

1. Identify how many orders have **missing customer names**.
2. Find the number of transactions where the **product field is empty**.
3. Count how many revenue values are **missing from the dataset**.

5. AVERAGE

1. Find the **average revenue per transaction**.

2. Compute the **average quantity of products sold per order**.
3. Determine the **average unit price of sold products**.

6. MIN

1. Identify the **smallest order value** in the revenue column.
2. Find the **lowest quantity of items** sold in a single transaction.
3. Determine the **cheapest unit price** among all products.

7. MAX

1. Identify the **largest order value** in the revenue column.
2. Find the **highest quantity of items** sold in a single transaction.
3. Determine the **most expensive unit price** among all products.

8. IF

1. Mark transactions as **"Profitable"** if revenue is greater than 500, otherwise "Not Profitable".
2. Label products as **"Bulk Order"** if the quantity sold is greater than 3, otherwise "Small Order".
3. Identify expensive products by labeling them **"High Value"** if unit price is above 100, otherwise "Low Value".