

## Power BI Student Test – Sales Data Analysis

### Objective:

Test the student's ability to create **relationships, calculated columns, measures, and visualizations** using Power BI.

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### Dataset: Sales Table

OrderID	Product	Price	Quantity
101	Laptop	800	2
102	Phone	500	1
103	Tablet	300	3

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### Task 1: Data Import and Setup

1. Import the **Sales** table into Power BI.
  2. Switch to **Data View** and ensure the table is correctly loaded.
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### Task 2: Create Calculated Columns

1. **Total Price (Row-Level Calculation):**
    - Create a **calculated column** to calculate total price per order using this formula:
  2. **Discounted Price (10% Discount):**
    - Add another column to apply a 10% discount to each order:
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### Task 3: Create Measures

1. **Total Sales:**
  - Create a measure that calculates the total revenue for all products.
2. **Average Price:**
  - Create a measure to calculate the average price of products.
3. **Order Count:**
  - Create a measure that counts the number of orders.

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## Task 4: Create Visualizations

1. **Bar Chart:**
    - Show **Total Price** by **Product**.
  2. **Card Visuals:**
    - Display:
      - Total Sales
      - Average Price
      - Order Count
  3. **Pie Chart:**
    - Show the distribution of sales by **Product**.
  4. **Table Visualization:**
    - Display **Product**, **Quantity**, **Total Price**, and **Discounted Price** in a table.
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## Task 5: Advanced

- Create a **calculated table** that filters out sales where the total price is below \$1000.