

1. Context

You have been provided with an Excel file containing raw sales data. Currently, the sales team only records the **Product ID** for each transaction, but management needs to see the full details (Product Name, Category, and Revenue) to make decisions.

Your task is to connect these two datasets using formulas and generate a summary report.

2. The Dataset

The attached Excel file contains two tabs:

1. **Sales_Data**: A transactional log of orders with dates and quantities.
2. **Product_Master**: A reference table containing product details (Names, Categories, and Unit Prices).

3. Instructions

Part A: Data Enrichment (VLOOKUP / XLOOKUP)

Go to the **Sales_Data** tab.

1. Create three new columns next to the existing data:
 - **Product Name**
 - **Category**
 - **Unit Price**
2. Use **VLOOKUP** (or XLOOKUP) to populate these columns by pulling the correct information from the **Product_Master** tab based on the Product_ID.
 - *Requirement*: Ensure your formulas are robust (exact match) and can handle the data correctly.

Part B: Calculations

1. Create a new column in the Sales_Data tab labeled **Total Revenue**.
2. Calculate the revenue for each transaction using the formula:
 - $\text{Total Revenue} = \text{Quantity} \times \text{Unit Price}$

Part C: Reporting (Pivot Tables)

Create a new tab in the workbook and name it "**Dashboard**". On this tab, create two Pivot Tables:

1. Revenue by Category:

- Show the **Total Revenue** generated by each **Category** (e.g., Electronics, Furniture).
- **Sort** the table so the highest revenue category is at the top.
- Format the numbers as Currency.

2. Top Selling Products:

- Show the **Product Name** and the total **Quantity** sold for each.
- Identify the single best-selling item by quantity.

4. Submission Guidelines

- Save your Excel file as YourName_Assignment.xlsx.
- Ensure all formulas are visible (do not paste as values).
- Email the completed file back to us within the time limit.

Evaluation Criteria

We will be assessing:

- **Formula Accuracy:** Correct usage of VLOOKUP/XLOOKUP (handling absolute references and exact matches).
- **Data Accuracy:** Correct calculation of total revenue totals.
- **Presentation:** Clean formatting of Pivot Tables (currency symbols, readable headers, proper sorting).