Excel Project:

Download dataset from here –

<https://github.com/AtulKadlag/Marathi_DataAnalyst/blob/main/sales_data_analysis_project.csv>

### Dataset - Synthetic Dataset Structure for Excel Project

* **Transaction ID**: A unique identifier for each sale.
* **Date of Sale**: The date the sale occurred.
* **Product ID**: An identifier for the product sold.
* **Product Category**: The category to which the product belongs (e.g., Electronics, Clothing, Groceries).
* **Quantity Sold**: The number of units sold in the transaction.
* **Sale Price per Unit**: The price of one unit of the product sold.
* **Customer Region**: The geographical region of the customer (e.g., North, South, East, West).

**Activities for the Excel Project**

1. **Data Cleaning**:
   * Check for and handle missing values in any of the columns.
   * Ensure all dates are in a consistent format.
   * Verify that quantities and sale prices are positive numbers.
2. **Data Analysis**:
   * Calculate total sales for each product category.
   * Determine the average sale price per unit for each product category.
   * Find the total quantity sold for each product category.
   * Calculate total sales for each customer region.
3. **Advanced Analysis** (Optional for advanced students):
   * Identify the top 5 best-selling products.
   * Calculate month-over-month sales growth rate.
   * Analyze sales trends to identify the best and worst sales months.
4. **Visualization**:
   * Create a bar chart showing total sales by product category.
   * Design a line chart to depict the sales trend over the months.
   * Generate a pie chart showing the sales distribution across different customer regions.
   * (Optional) Use conditional formatting to highlight top-performing products or categories.
5. **Reporting**:
   * Prepare a summary report in Excel using the analyses conducted, incorporating charts and pivot tables to showcase the findings.
   * Write a brief analysis for each section of the report, highlighting key insights and trends observed in the data.