Excel VBA Automation Project - Monthly Report Generator

Problem Statement

While working with a customer order dataset, I aimed to simplify the monthly reporting process. The goal was to automatically split order data by month and create separate sheets using Excel VBA.

Project Overview

- Removed duplicate order dates

- Filtered data month-wise using AutoFilter

- Created new sheets for each month

- Copied filtered data to respective sheets

Objectives

1. Automate Monthly Reporting

2. Improve Accuracy

3. Boost Efficiency

4. Create a Scalable Framework

Key Insights & Accomplishments

- Developed a macro (`GenerateMonthlyReports`) using VBA

- Automated the complete workflow

- Filtered using dynamic date values

- Ensured scalable solution for larger datasets

Tools & Techniques Used

- Excel VBA (Macros)

- AutoFilter & Date Formatting

- Dynamic Sheet Creation

Sample Code Snippet

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```
For Each cell In wsDates.Range("A2:A13")

    wsData.AutoFilterMode = False

    wsData.Range("A1").AutoFilter Field:=1, Criteria1:=cell.Value


    wsData.Range("A1").CurrentRegion.SpecialCells(xlCellTypeVisible).Copy

    Sheets.Add(After:=Sheets(Sheets.Count)).Name = Format(cell.Value, "MMM_YYYY")

    ActiveSheet.Paste

Next cell
```

Takeaways & Learning Outcomes

- Replaced manual steps with full automation

- Strengthened VBA logic and Excel handling

- Built reusable and time-saving solutions