# High-Value Invoice Analysis for Financial Reporting

This project showcases advanced Excel skills through an end-to-end data analysis of a real-world online retail dataset. The analysis is tailored for an Account Specialist role and focuses on high-value invoice evaluation, data cleaning, and reporting to support finance and accounting decisions.  
  
✅ Built using Pivot Tables, Charts, Conditional Formatting, Data Validation, Formulas, and Macro-enabled features in Excel.

## 🧠 Objective

To demonstrate Excel proficiency through a comprehensive invoice analysis project that includes:  
- Identifying high-value customers and invoices  
- Detecting data entry errors and outliers  
- Analyzing sales trends and best-selling products  
- Preparing a visual dashboard for financial reporting

## 📁 Dataset Summary

- Source: UCI Machine Learning Repository – Online Retail Data Set  
- Period: 01-Dec-2010 to 09-Dec-2011  
- Records: 541,909 transactions  
- Features: 8 columns including InvoiceNo, StockCode, Description, Quantity, InvoiceDate, UnitPrice, CustomerID, Country  
- Use Case: Business analytics, invoice validation, and financial reporting

## 📊 Tabs / Sheets Overview

- Online Retail Raw Data: Full raw dataset (cleaned for analysis)

- Invoices with Error: Negative/zero quantity invoices flagged via filtering

- Bad Data: Invalid and suspicious data grouped separately

- Cleaned Data: Dataset after validation and error removal

- Top 5 Invoices Highest Revenue: Highest value transactions identified

- Top 10 Customers Total Revenue: Customers sorted by total purchase value

- Top 10 Selling Products: Products with highest quantity sold

- Monthly Sales Trend: Time-series revenue trend

- Total Revenue per Country: Geographic-based revenue breakdown

- Outlier Detection: Highlighted using conditional formatting for UnitPrice

## 💡 Skills Demonstrated

✔️ Data Cleaning & Validation

✔️ Pivot Tables

✔️ Conditional Formatting

✔️ VLOOKUP

✔️ COUNTIF / SUMIF

✔️ Filters and Sorting

✔️ Charts (Bar, Line, Treemap, Map, Pie)

✔️ Date Parsing

✔️ Macro-enabled Buttons

✔️ Cell Styling & Data Visualization

## 📈 Project Highlights

📌 Insight-Led Reporting: Patterns in customer revenue, high-performing products, and invoice irregularities

🛠️ Error Flagging: Identified invalid quantities and pricing issues

🌍 Geographic Visualization: Clear representation of sales by country

📅 Time Trend: Revenue flow across months

📦 Product Demand: Highlighted top-selling items by volume

## 📂 Folder Structure (if uploaded)

.  
├── High-Value-Invoice-Analysis.xlsx # Main Excel project file  
├── README.md # Project documentation  
├── images/ # Screenshots of charts and visualizations  
└── LICENSE (if open source)

## 🔧 For Hiring Teams

This Excel project reflects my ability to manage financial data, uncover actionable insights, and build meaningful reports using advanced Excel functionalities. I developed this project to support finance-related decisions in roles like Account Specialist, Finance Analyst, or Reporting Assistant.  
  
Let me know if you’d like a version in PDF or need a custom tagline for the repo header too 😊