Power BI Hands-on Assessment

Tanya Yadav

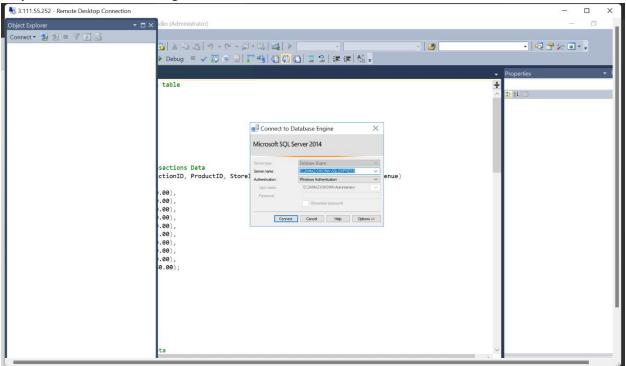
IDA-ERM

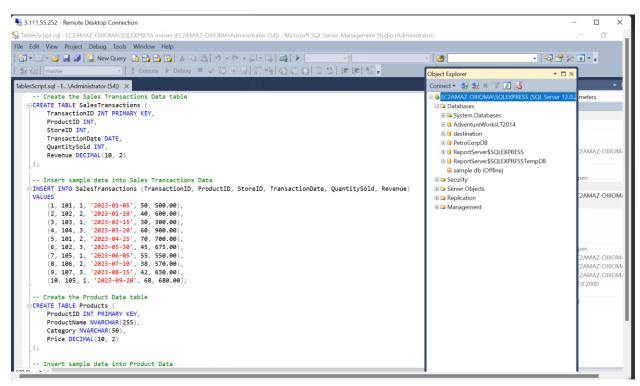
Batch-4

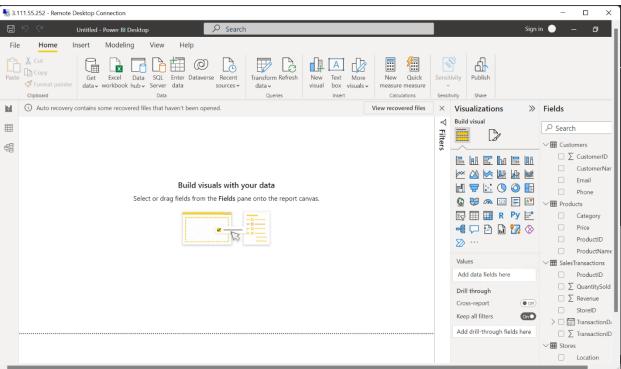
Scenario: Sales Performance Analysis with Power BI

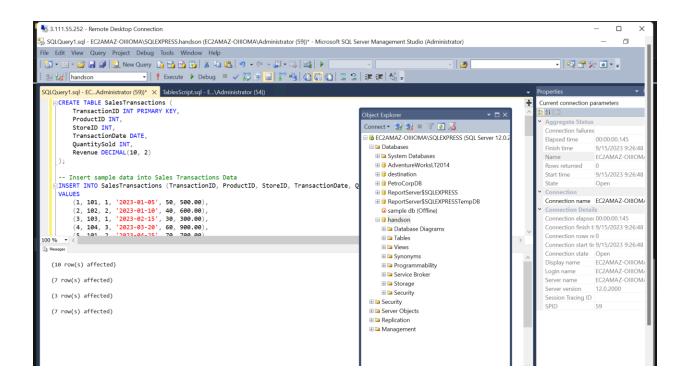
In this scenario, let's imagine you work for a retail company, and you've been tasked with analyzing the sales performance of your products and stores using Power BI.

Requirement 1: Data Loading



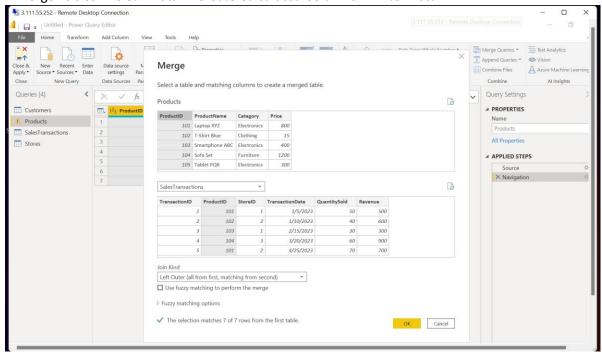


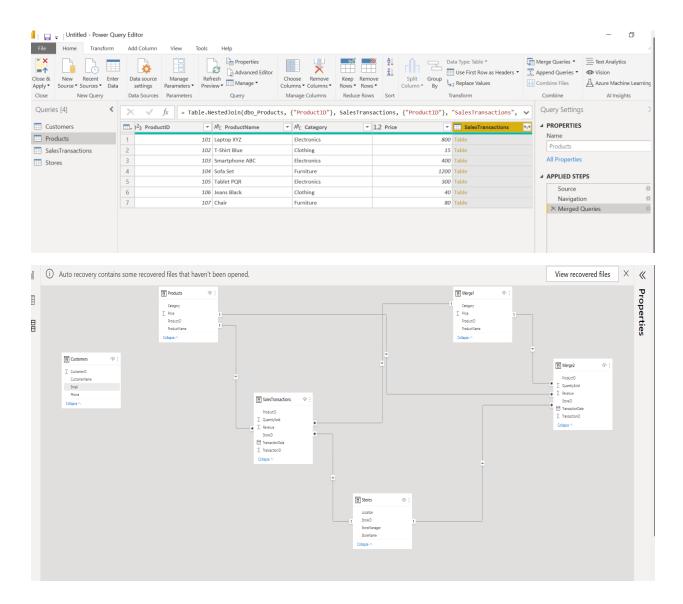




Requirement 2: Data Transforma7on

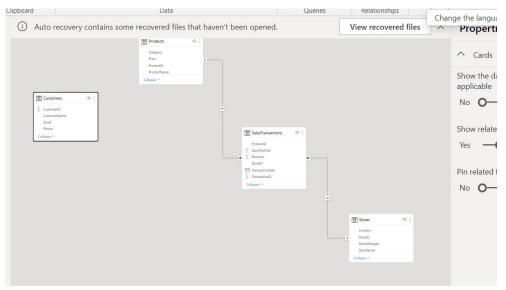
• Merge Tables: • Clean Data: • Create Calculated Columns: • Filter Data:

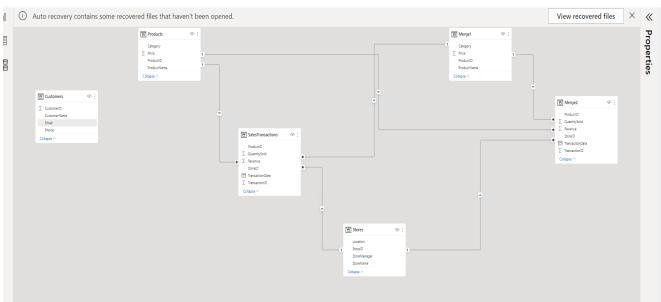




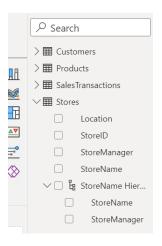
Requirement 3: Data Modelling

• Create Relationships: • Create Hierarchies:



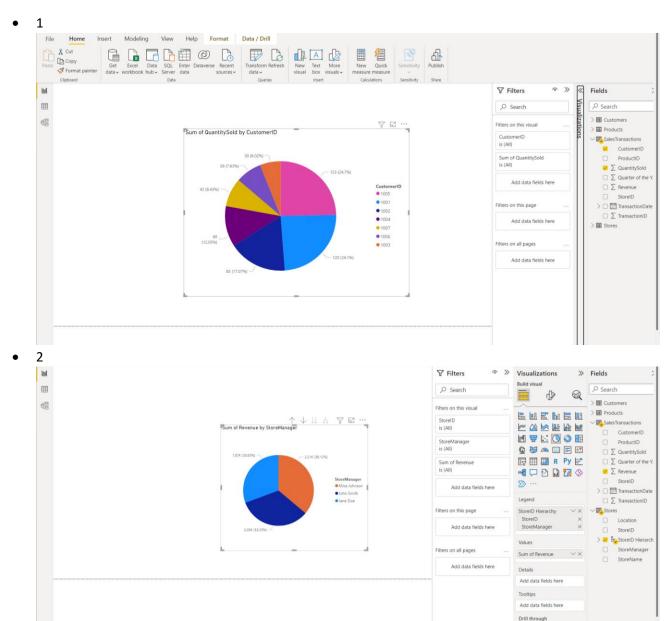


Data hierarchy:

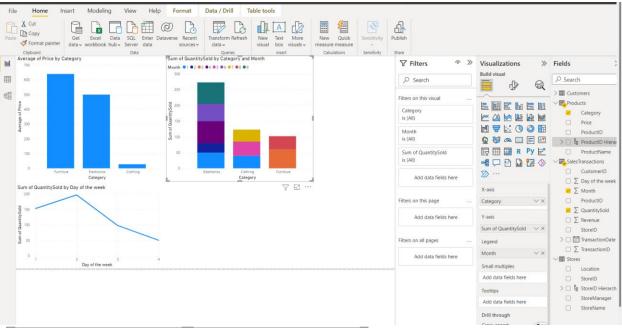


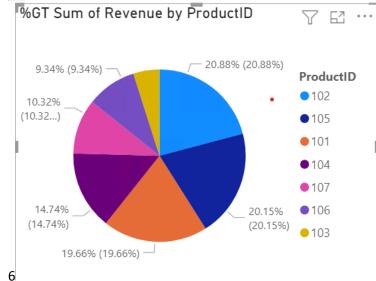
Requirement 4: Business Queries and Analysis -

Who are the top-spending customers based on their total purchase amount? 2. How is sales revenue distributed among different store managers? 3. What is the average price of products in each category? 4. Are there specific days of the week when sales are higher? 5. How do sales trends vary by product category on a monthly basis? 6. What percentage of products account for 80% of total sales revenue? 7. Are there any trends in repeat customer purchases? 8. Which product categories perform best at each store loca;on? 9. Are there any seasonal pasterns or trends in sales for specific products or categories? 10. Can customers be segmented into high, medium, and low-value segments based on their

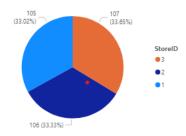


• 3,4,5





Max of ProductID by StoreID



• 8

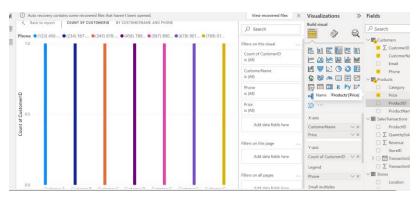


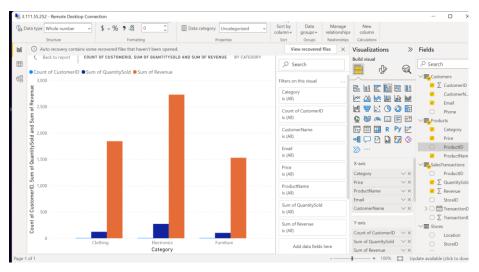
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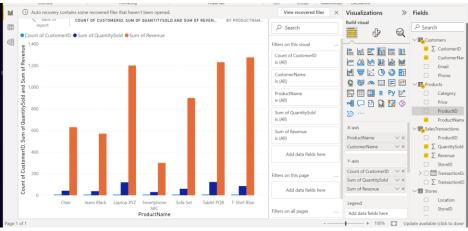
Requirement 5: Data Insights and Recommendations-

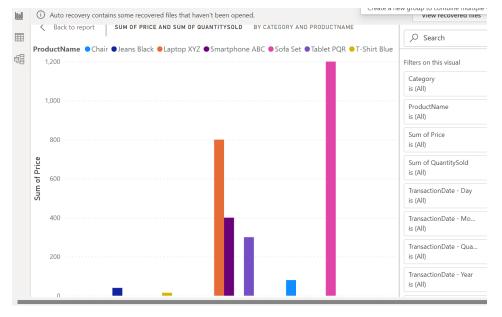
50%

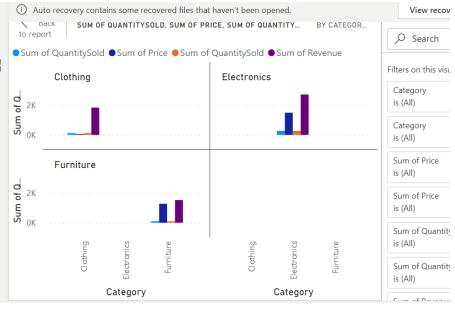
• Analyze Patterns: Identify patterns and trends in the data, such as seasonality or regional variations and show it or mark it. • Generate Insights: Provide actionable insights based on your analysis. For example, suggest increasing marketing efforts for the most profitable product category. • Create Visual Stories: Use storytelling techniques to communicate your findings in the reports and dashboards

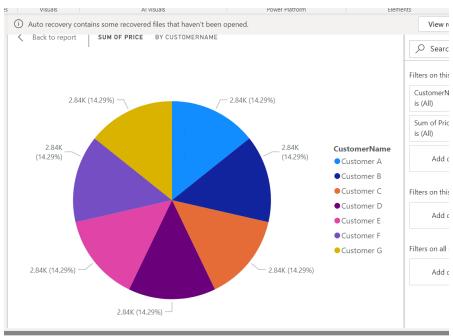


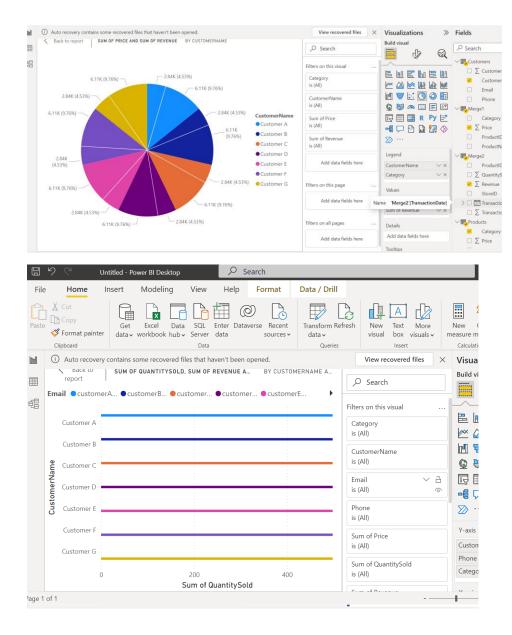






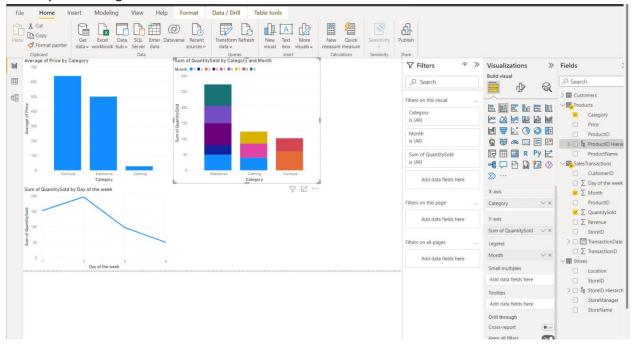




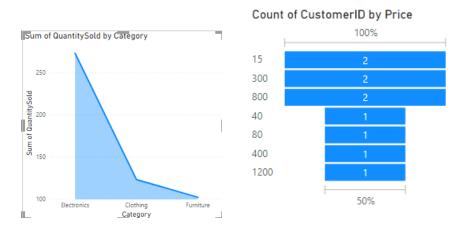


Finally, we conclude the following outcomes-

Tuesday has the highest sale.



 As the sales of electronics good are the highest, and customer buy the most between price ranges 15-800, the company should release more electronics products in that range.
there should be more sales on Tuesday and on the months when sales are the highest i.e. 4th and 9th months.



- As we can see that Customer B has higher spendings in products, try sending promotional mail to top spending customers to increase revenue.
- Month 20th day has higher spending, try sending discount or sales mails before that to increase the spending.
- Keep the stock full in the stores which has higher customers to ensure increased revenue.
- Electronics seems to be the most profitable category due to a combination of high sales volume and product prices.