



### DATA SET IN THIS PORJECT E-commerce



### Tools used in this project



**Python** 

1 Cleaning

2 Visualisation



**Power Bi** 

1 Cleaning

2 Visualisation





### Cleaning with Python

- Change Null Values And \N With Canceled In Status Column
- Drop Any Value Equals 0 In Price Column
- Remove All Null Columns And Sales Commission Code
- Remove Raw Blanks And Wrong Data Type In Created At Column
- Remove Raw Blanks In Qty Ordered Column
- Remove Raw Blanks In Payment Method Column
- Remove Raw Blanks In Working Date Column
- Calculation new grand total column
- Remove Raw Blanks And Wrong Data Type In Customer Since Column
- Replace Any Value Equal Planks Or \N in Category Name Column With Unknown





### Calculated KPIS With Python

- Total Revenue
- Total orders
- Total Canceled Orders
- Total Customers
- Avg Order Value
- Total Returning Customers
- Customer Retention Rate
- Cancellation Rate
- Quarter Over Quarter Change





### Visualisation With Python

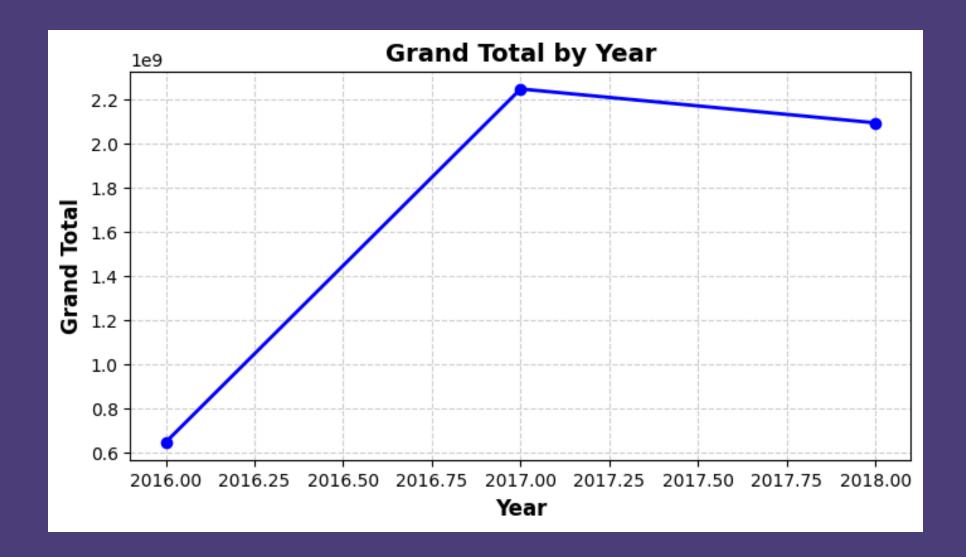
- Total Revenue
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#### **Grand Total By Year**

his line chart illustrates the Grand
Total trend over different years.
The x-axis represents the Years, while
the y-axis shows the Total Sum.
Circular markers (o) highlight yearly
data points for better visibility.





### **Total Revenue By Year And Quarter**

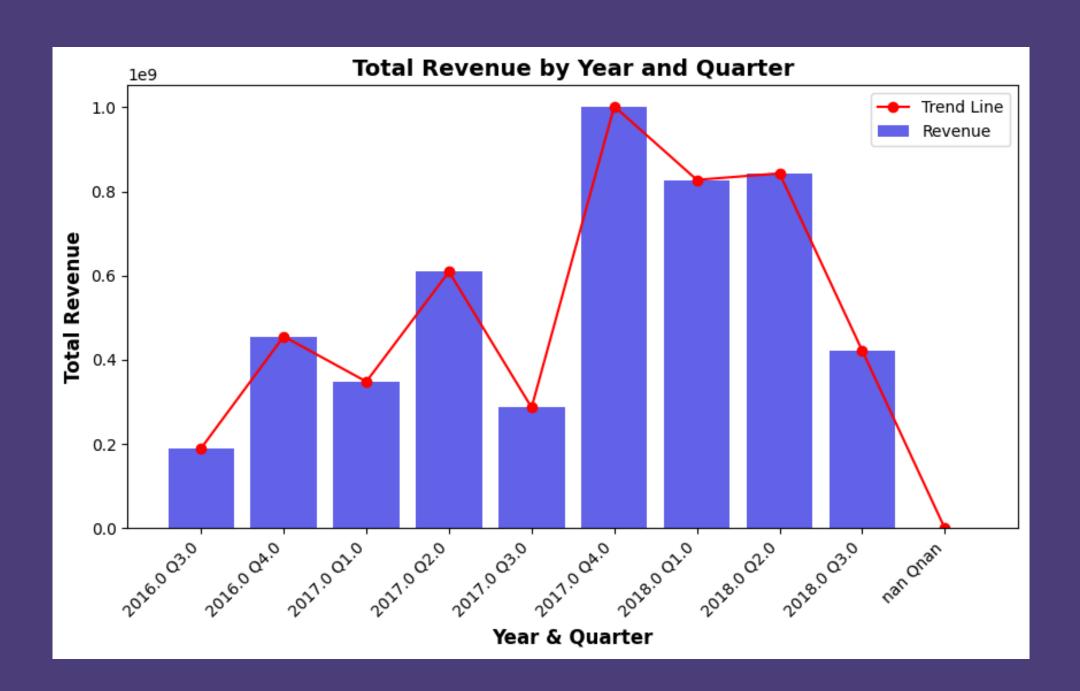
This combination chart (bar + line) visualizes the Total Revenue across different Year-Quarter periods.

The x-axis represents the Year and Quarter (e.g., 2023 Q1, 2023 Q2).

The y-axis displays the Total Revenue (grand\_total).

Blue Bars: Represent the revenue for each quarter.

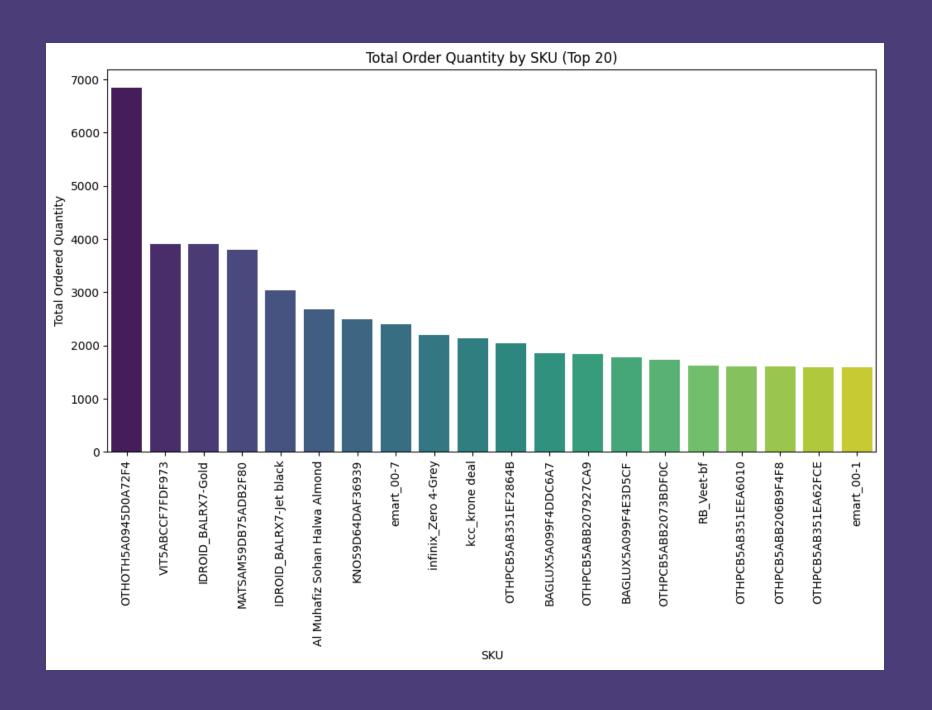
Red Line with Markers: Shows the trend over time, helping identify revenue fluctuations.





#### Total Order Quantity By SKU (Top 20)

This bar chart displays the top 20 most ordered SKUs (Stock Keeping Units) based on total order quantity.



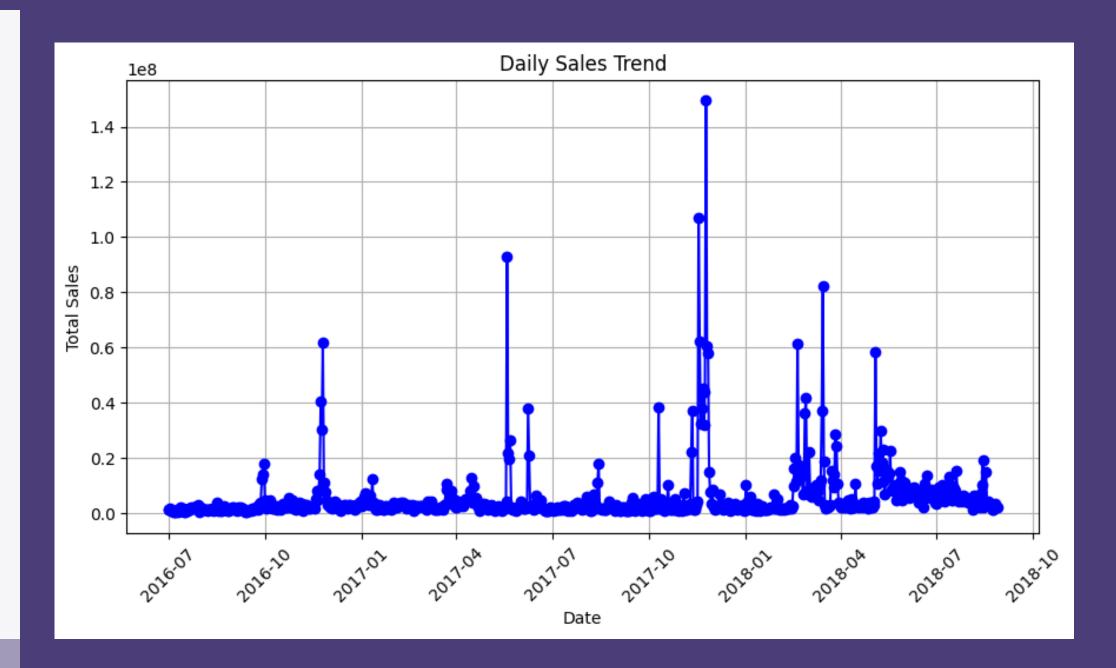


#### **Daily Sales Trend**

This line chart represents the daily sales trend over time.

X-axis: Displays the date (created\_at), representing each day's sales.

Y-axis: Shows the total sales amount (New\_grand\_total).





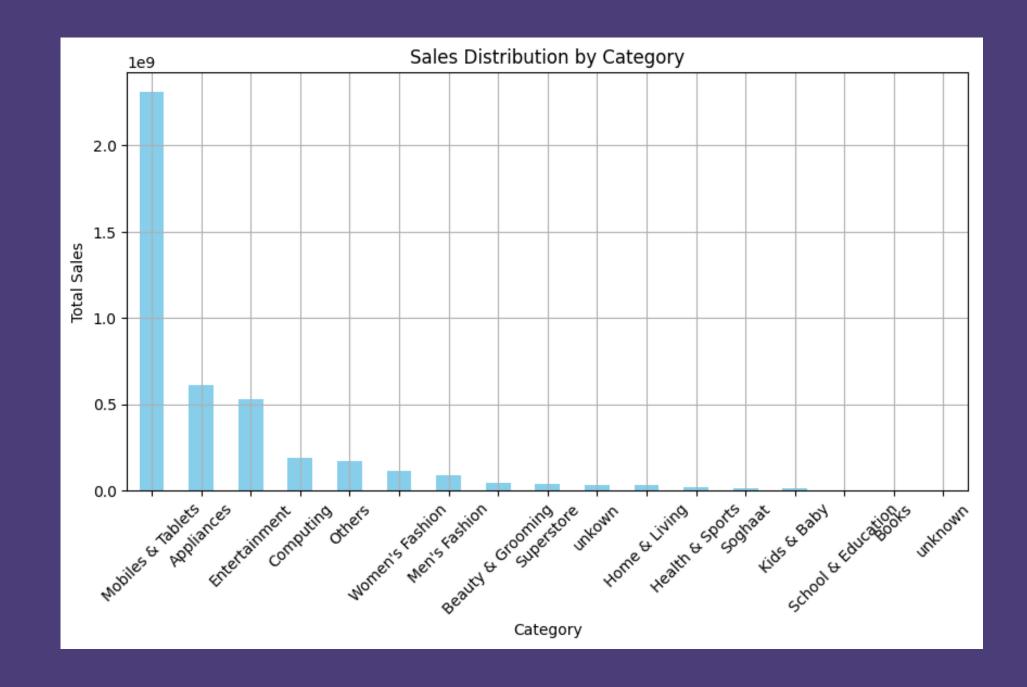
#### Sales Distribution By Category

This bar chart presents the total sales distribution across different product categories.

X-axis: Represents product categories (category\_name\_1).

Y-axis: Displays the total sales amount

(New\_grand\_total).



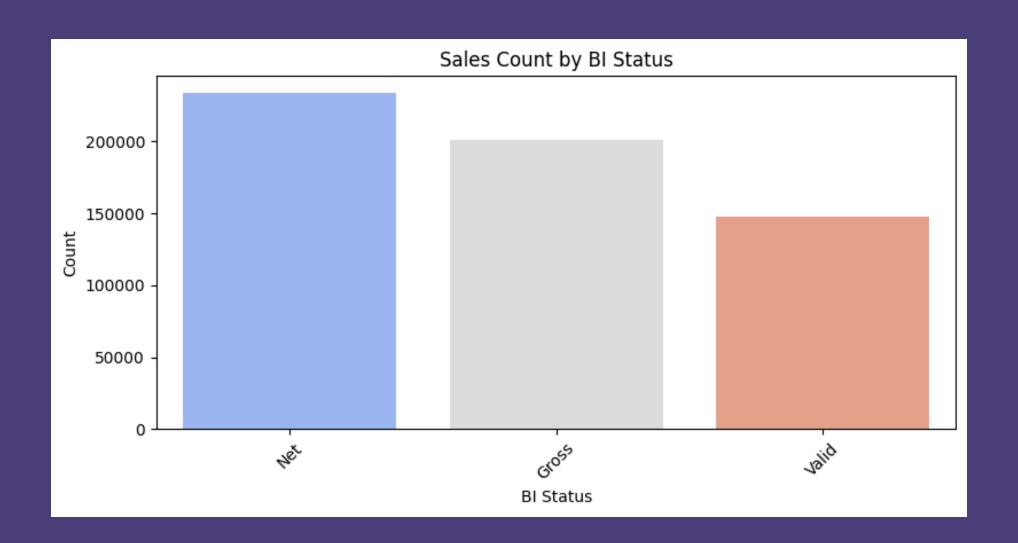


### Sales Count By Bi Status

This bar chart represents the count of sales transactions categorized by BI Status.

X-axis: Displays the different BI Status categories.

Y-axis: Represents the count of transactions for each BI Status.

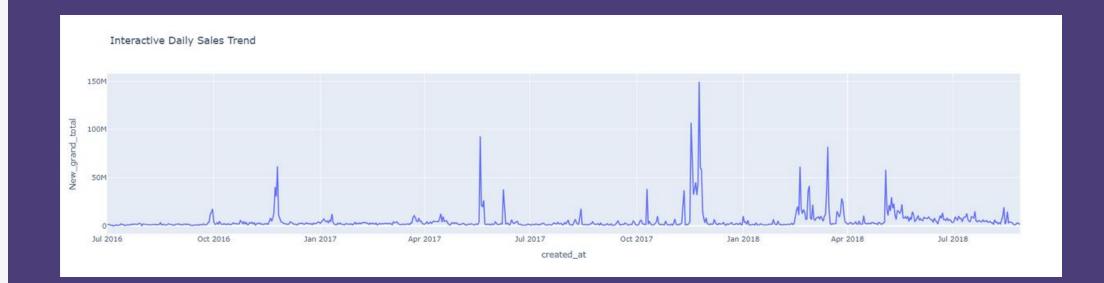




### **Interactive Daily Sales Trend**

This interactive line chart visualizes the daily sales trend over time, providing a dynamic way to explore sales performance.

X-axis: Represents dates (created\_at), tracking sales on a daily basis.
Y-axis: Displays the total sales amount (New\_grand\_total).





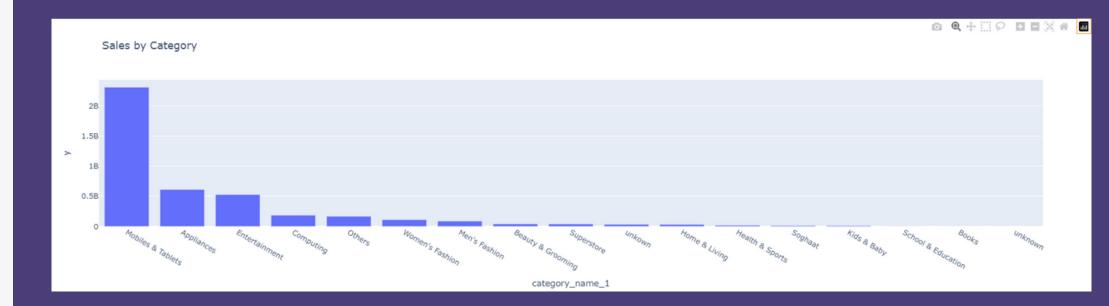
#### **Sales By Category**

This interactive bar chart visualizes total sales across different product categories, allowing users to explore category-wise performance dynamically.

X-axis: Represents different product categories.

Y-axis: Displays the total sales amount

for each category.



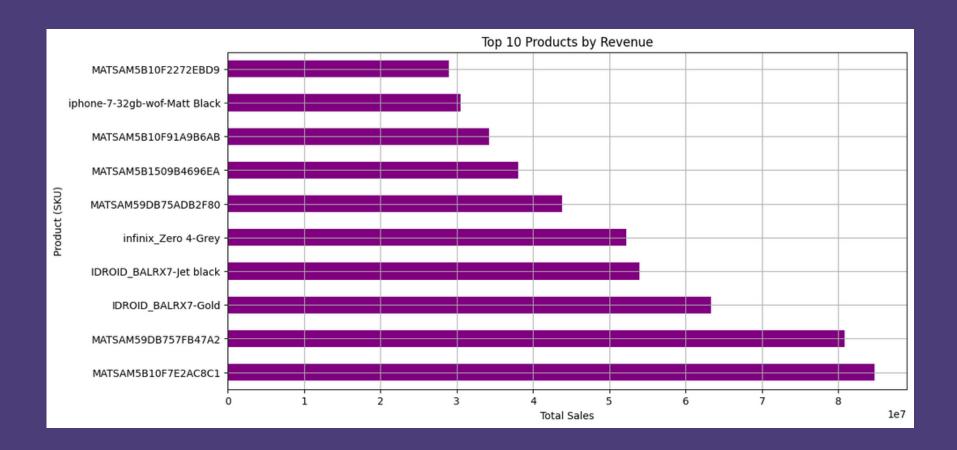


# Top 10 Products By Revenue

This interactive bar chart visualizes total sales across different product categories, allowing users to explore category-wise performance dynamically.

X-axis: Represents different product categories.

Y-axis: Displays the total sales amount for each category.





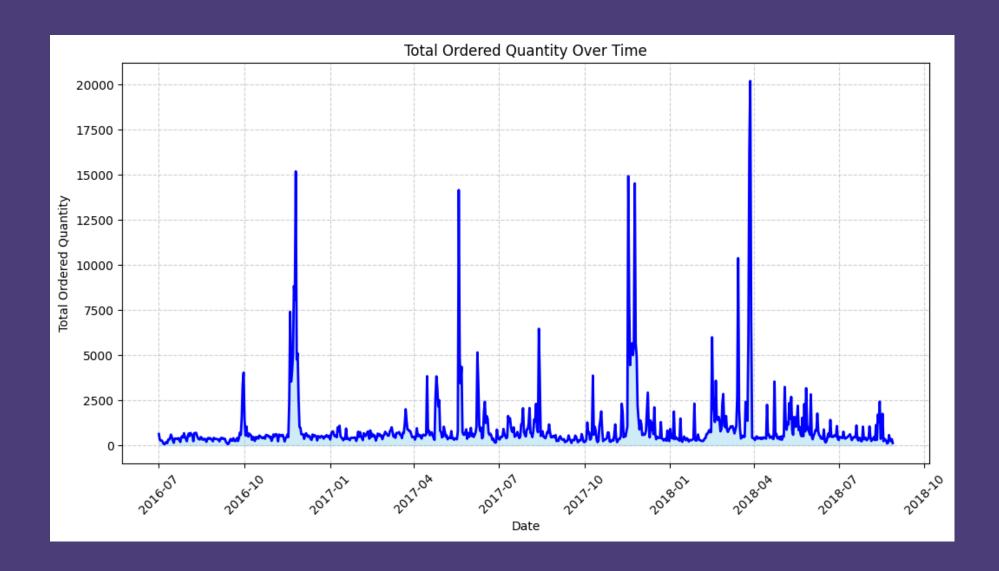
# **Total Ordered Quantity Over Time**

This interactive bar chart visualizes total sales across different product categories, allowing users to explore category-wise performance dynamically.

X-axis: Represents different product categories.

Y-axis: Displays the total sales amount

for each category.





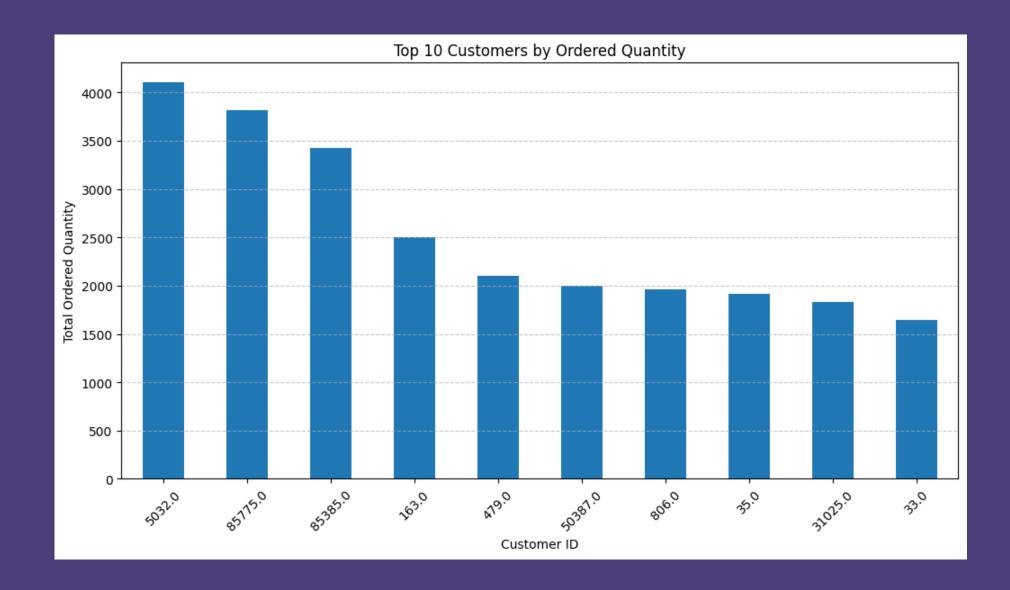
# **Top 10 Customers By Orderd Quantity**

This interactive bar chart visualizes total sales across different product categories, allowing users to explore category-wise performance dynamically.

X-axis: Represents different product categories.

Y-axis: Displays the total sales amount

for each category.





### Some Of Cards



Total Discount 291,942,717

Total Revenue \$4,195,307,997

Total Ordered 582,292

Canceled Orders 200504



Returning Customers KPI

Returning Customers 64831

**Customer Retention Rate** 

56.34%

Total Customers 115081 Cancellation Rate 19.16%



### Cleaning with Power Bi

- Remove All Null Columns And Sales Commission Code
- Drop Any Value Equals 0 And Blanks And In MV Column
- Drop Any Value Equal Blanks And Wrong Data Type In Customer Since Column
- Change Wrong Column Data Type
- Change Null Values And \N With Canceled In Status Column
- Calculation new grand total column
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#### **Calculated KPIS With Power BI**

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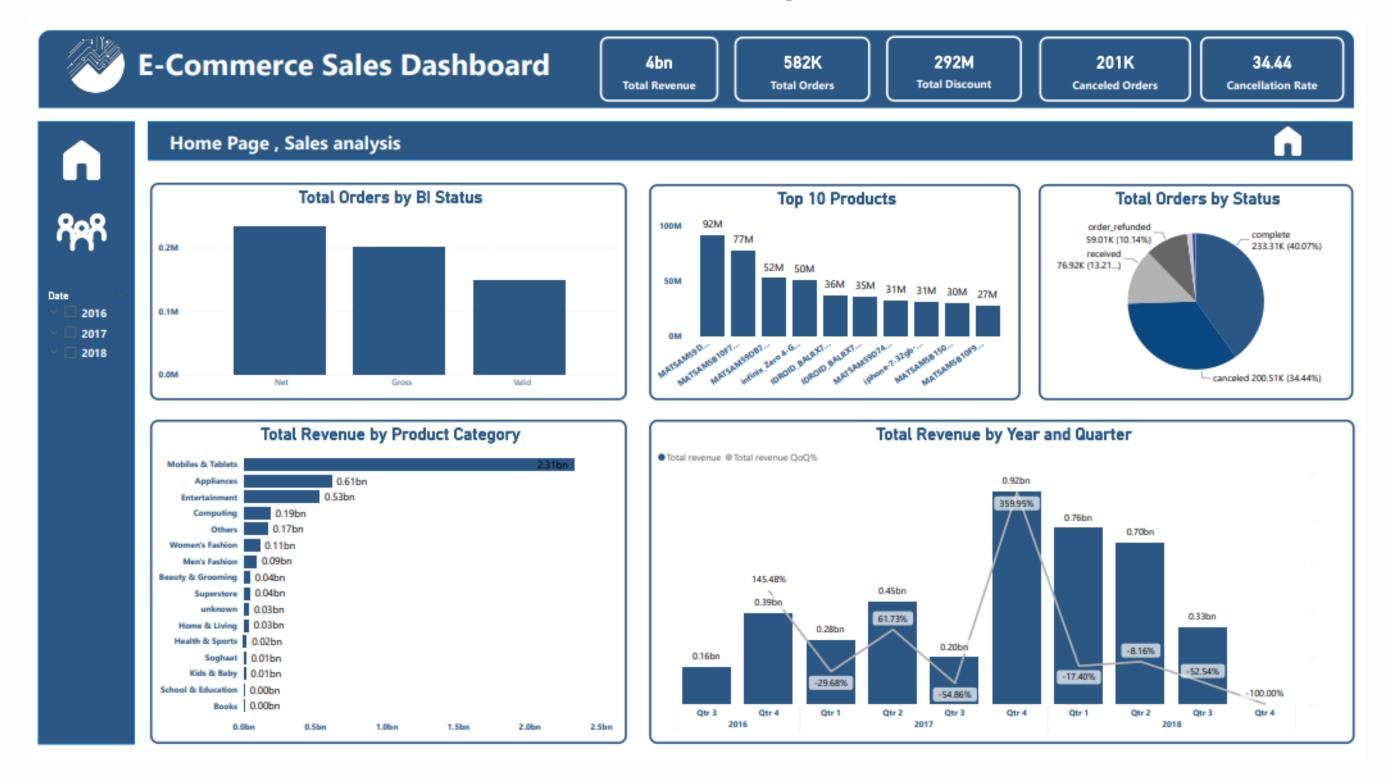
### Visualisation With Power Bi

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### First Page Sales Analysis





2018

#### Second Page Customer Analysis





2016

2017





# Background Brief



### Ahmed Abdullah

### **Background Brief**

October High Institute for Engineering & Technology Bachelor's Degree in Management Information Systems (MIS) Current Year: Third Year

**Data Analyst** 

**UX/UI Designer, Graphic Desigern** 

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### **Any Questions!**





### ANY QUESTIONS?

# Thanks

