

SKCT EDA System Dataset for Colab Untitled10.ipynb - Colab

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```
[4] 13s
▶ from google.colab import files
files.upload()

# 2. Import libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import sqlite3

# 3. Load dataset
df = pd.read_csv("customer_transactions.csv")

# 4. Basic understanding
print("DATA INFO")
df.info()

print("\nMISSING VALUES")
print(df.isnull().sum())

print("\nSTATISTICAL SUMMARY")
print(df.describe())

# 5. Data cleaning & transformation
df.drop_duplicates(inplace=True)
```

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```
[4] 13s
plt.title("Region-wise Sales Distribution")
plt.ylabel("")
plt.show()

# Correlation heatmap
sns.heatmap(correlation, annot=True, cmap="coolwarm")
plt.title("Correlation Matrix")
plt.show()

# 9. SQL Integration
conn = sqlite3.connect("customer.db")
df.to_sql("transactions", conn, if_exists="replace", index=False)

query = """
    SELECT Region, SUM(TotalAmount) AS TotalSales
    FROM transactions
    GROUP BY Region
"""

sql_result = pd.read_sql(query, conn)

print("\nSQL QUERY RESULT")
print(sql_result)

# 10. Business Insights
```

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Data columns (total 9 columns):

#	Column	Non-Null Count	Dtype
0	TransactionID	12 non-null	object
1	CustomerID	12 non-null	object
2	Date	12 non-null	object
3	Region	12 non-null	object
4	ProductCategory	12 non-null	object
5	ProductName	12 non-null	object
6	Quantity	12 non-null	int64
7	UnitPrice	12 non-null	int64
8	PaymentMode	12 non-null	object

dtypes: int64(2), object(7)
memory usage: 996.0+ bytes

MISSING VALUES

TransactionID	0
CustomerID	0
Date	0
Region	0
ProductCategory	0
ProductName	0
Quantity	0
UnitPrice	0
PaymentMode	0

dtype: int64

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STATISTICAL SUMMARY

	Quantity	UnitPrice
count	12.000000	12.000000
mean	2.000000	1616.666667
std	1.206045	1330.812010
min	1.000000	150.000000
25%	1.000000	725.000000
50%	2.000000	1350.000000
75%	2.250000	2125.000000
max	5.000000	5000.000000

MEAN SALES: 2250.0
VARIANCE OF SALES: 1498636.3636363635

CORRELATION MATRIX

	Quantity	UnitPrice	TotalAmount
Quantity	1.000000	-0.668358	-0.461803
UnitPrice	-0.668358	1.000000	0.868265
TotalAmount	-0.461803	0.868265	1.000000

OUTLIERS

TransactionID	CustomerID	Date	Region	ProductCategory	ProductName	Quantity	UnitPrice	PaymentMode	TotalAmount
5	T006	C105	2023-01-10	North	Electronics	Smart Watch	5	5000	5000

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Sales by Product Category

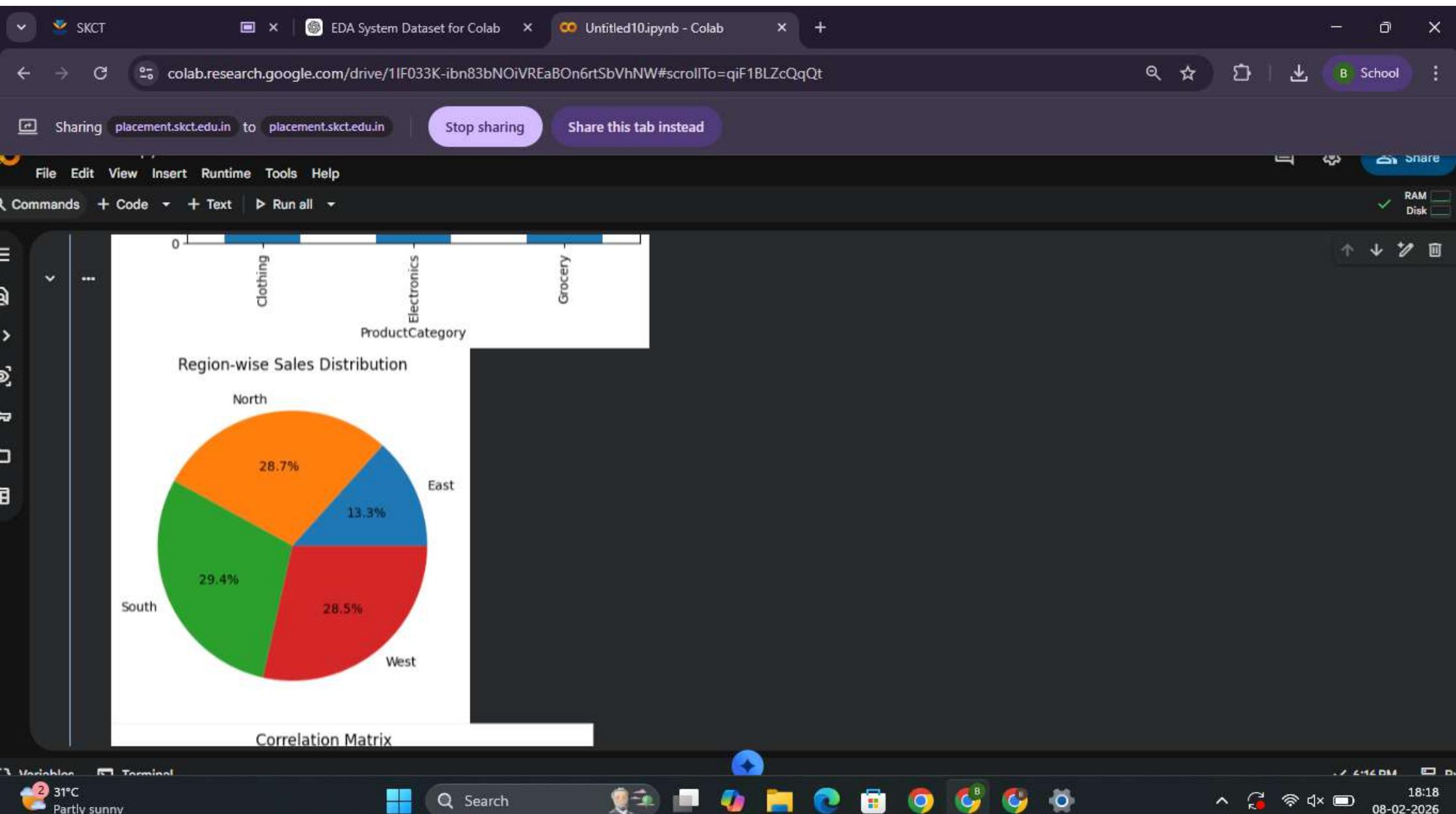
ProductCategory	Total Sales
Clothing	7500
Electronics	15000
Grocery	4800

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RAM Disk

Correlation Matrix

	Quantity	UnitPrice	TotalAmount
Quantity	1	-0.67	-0.46
UnitPrice	-0.67	1	0.87
TotalAmount	-0.46	0.87	1

SQL QUERY RESULT

	Region	Totalsales
0	East	3600
1	North	7750
2	South	7950
3	West	7700

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