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import os
import sqlite3
conn = sqlite3.connect(r"C:\Users\anish\Documents\PG Internship
unofficial\Jagan unofficial intern\Elevate labs\T7\sales_data.db")
cursor = conn.cursor()

cursor.execute("SELECT name FROM sqlite_master WHERE type='table';")
print(cursor.fetchall())

[('sales',)]

query = """
SELECT
    product,
    SUM(quantity) AS total_quantity,
    SUM(quantity * amount) AS Revenue
FROM sales
GROUP BY product;
"""

cursor.execute(query)
columns = [desc[0] for desc in cursor.description]

rows = cursor.fetchall()

print(columns)
for row in rows:
    print(row)

['product', 'total_quantity', 'Revenue']
('bag', 2, 3200)
('chair', 2, 5000)
('cosmetics', 1, 1900)
('stationary', 6, 9600)
('table', 1, 2000)
('toys', 8, 20000)

cursor.execute("""
SELECT product, AVG(quantity) AS avg_quantity
FROM sales
GROUP BY product
""")
print(cursor.fetchall())

[('bag', 2.0), ('chair', 2.0), ('cosmetics', 1.0), ('stationary',
6.0), ('table', 1.0), ('toys', 8.0)]

import pandas as pd
df = pd.read_sql_query(query, conn)
print(df)

```

	product	total_quantity	Revenue
0	bag	2	3200
1	chair	2	5000
2	cosmetics	1	1900
3	stationary	6	9600
4	table	1	2000
5	toys	8	20000

```
import matplotlib.pyplot as plt
```

```
df1 = pd.read_sql_query("""  
SELECT product, SUM(quantity * amount) AS revenue  
FROM sales  
GROUP BY product  
""", conn)
```

```
df1.plot(kind='bar', x='product', y='revenue', color='skyblue',  
legend=False)  
plt.title("Revenue by Product")  
plt.ylabel("Revenue")  
plt.xticks(rotation=45)  
plt.tight_layout()  
plt.show()
```

