

Task 7 Python--ipynb

D:\> MY Python Works Here > Task 7 Python--ipynb > Import sqlite3

Generate + Code + Markdown | Run All | Clear All Outputs | Outline ... | Select Kernel

```
import sqlite3

# Connect to SQLite (creates the DB file automatically)
conn = sqlite3.connect("sales_data.db")
cursor = conn.cursor()

# Create table
cursor.execute("""
CREATE TABLE IF NOT EXISTS sales (
    product_name TEXT,
    quantity INTEGER,
    price REAL
)
""")

print("Step 1 complete: Database and table created successfully!")

conn.commit()
conn.close()
```

[1] Step 1 complete: Database and table created successfully!

```
import sqlite3

conn = sqlite3.connect("sales_data.db")
cursor = conn.cursor()

# Clear old data (optional)
cursor.execute("DELETE FROM sales")

# Insert realistic data
data = [
    ("iPhone 14", 4, 799),
    ("Samsung S23", 3, 749),
    ("Dell XPS 13", 2, 1199),
```

[2] Python

Spaces: 4 { } Signed out Cell 2 of 4

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```
import sqlite3

conn = sqlite3.connect("sales_data.db")
cursor = conn.cursor()

# Clear old data (optional)
cursor.execute("DELETE FROM sales")

# Insert realistic data
data = [
    ("iPhone 14", 4, 799),
    ("Samsung S23", 3, 749),
    ("Dell XPS 13", 2, 1199),
    ("HP Pavilion", 5, 899),
    ("AirPods Pro", 10, 249),
]
cursor.executemany("INSERT INTO sales VALUES (?, ?, ?)", data)

conn.commit()
conn.close()

print("Step 2 complete: Data inserted successfully!")
```

[2] Step 2 complete: Data inserted successfully!

```
import sqlite3
import pandas as pd

conn = sqlite3.connect("sales_data.db")

query = """
SELECT
```

[4] Python Spaces: 4 { } Signed out Cell 2 of 4

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Select Kernel

```
import sqlite3
import pandas as pd

conn = sqlite3.connect("sales_data.db")

query = """
SELECT
    product_name,
    SUM(quantity) AS total_quantity,
    SUM(quantity * price) AS total_revenue
FROM sales
GROUP BY product_name
"""

df = pd.read_sql_query(query, conn)

print("SALES SUMMARY:")
print(df)

conn.close()

[4] SALES SUMMARY:
product_name  total_quantity  total_revenue
0  AirPods Pro          10        2490.0
1  Dell XPS 13           2        2398.0
2  HP Pavilion            5        4495.0
3  Samsung S23            3        2247.0
4  iPhone 14              4        3196.0

[7] import sqlite3
import pandas as pd
import matplotlib.pyplot as plt

conn = sqlite3.connect("sales_data.db")
```

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Task 7 Python--jupyter

D: > MY Python Works Here > Task 7 Python--jupyter > import sqlite3

Generate + Code + Markdown | Run All | Clear All Outputs | Outline | Select Kernel

```
import sqlite3
import pandas as pd
import matplotlib.pyplot as plt

conn = sqlite3.connect("sales_data.db")

query = """
SELECT
    product_name,
    SUM(quantity) AS total_quantity,
    SUM(quantity * price) AS total_revenue
FROM sales
GROUP BY product_name
"""

df = pd.read_sql_query(query, conn)
conn.close()

print(df)

plt.figure(figsize=(9,6))
plt.bar(df['product_name'], df['total_revenue'])
plt.xlabel("Product Name")
plt.ylabel("Revenue")
plt.title("Revenue by Product")
plt.xticks(rotation=45)
plt.tight_layout()
plt.show()
```

...

	product_name	total_quantity	total_revenue
0	AirPods Pro	10	2490.0
1	Dell XPS 13	2	2398.0
2	HP Pavilion	5	4495.0
3	Samsung S23	3	2247.0
4	iPhone 14	4	3196.0

...

Revenue by Product

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