

Task 7 - Summary

```
import sqlite3

conn = sqlite3.connect("Elevate_lab_task7")
cur = conn.cursor()

cur.execute("""
CREATE TABLE IF NOT EXISTS sales (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    product TEXT,
    quantity INTEGER,
    price REAL
)
""")

conn.commit()
print("Sales table created successfully!")
```

Sales table created successfully!

```
sample_data = [
    ("Laptop", 4, 60000),
    ("Laptop", 3, 62000),
    ("Mouse", 10, 500),
    ("Mouse", 6, 550),
    ("Keyboard", 5, 1500),
    ("Keyboard", 4, 1600),
    ("Mobile", 5, 22000),
    ("Printer", 6, 6000),
```

```
("Printer",5,5000),  
]  
  
cur.executemany("INSERT INTO sales (product, quantity, price) VALUES (?, ?, ?)", sample_data)  
conn.commit()  
  
print("Sample sales data inserted!")
```

Sample sales data inserted!

```
cur.execute("SELECT * FROM sales")  
rows = cur.fetchall()  
rows  
  
[(1, 'Laptop', 4, 60000.0),  
(2, 'Laptop', 3, 62000.0),  
(3, 'Mouse', 10, 500.0),  
(4, 'Mouse', 6, 550.0),  
(5, 'Keyboard', 5, 1500.0),  
(6, 'Keyboard', 4, 1600.0),  
(7, 'Mobile', 5, 22000.0),  
(8, 'Printer', 6, 6000.0),  
(9, 'Printer', 5, 5000.0)]
```

```
cur.execute("SELECT SUM(price) as Total_Sales FROM sales")  
rows = cur.fetchall()  
rows
```

[(159150.0,)]

```
cur.execute("SELECT ROUND(AVG(price),2) as Average_Sales_value FROM sales")
rows = cur.fetchall()
rows
```

```
[(17683.33,)]
```

```
cur.execute("""SELECT product, SUM(quantity) AS total_qty, SUM(quantity * price) AS
revenue FROM sales GROUP BY product""")
rows = cur.fetchall()
rows
```

```
[('Keyboard', 9, 13900.0),
 ('Laptop', 7, 426000.0),
 ('Mobile', 5, 110000.0),
 ('Mouse', 16, 8300.0),
 ('Printer', 11, 61000.0)]
```

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

df = pd.read_sql_query("SELECT * FROM sales",conn)
df
```

	id	product	quantity	price
0	1	Laptop	4	60000.0
1	2	Laptop	3	62000.0
2	3	Mouse	10	500.0
3	4	Mouse	6	550.0
4	5	Keyboard	5	1500.0
5	6	Keyboard	4	1600.0
6	7	Mobile	5	22000.0
7	8	Printer	6	6000.0
8	9	Printer	5	5000.0

```
plt.bar(df["product"],df["price"],color="brown")
```

```
plt.show()
```

```
plt.savefig("Sales_chart.png")
```

