

## TASK 7

### Get Basic Sales Summary from a Tiny SQLite Database using Python

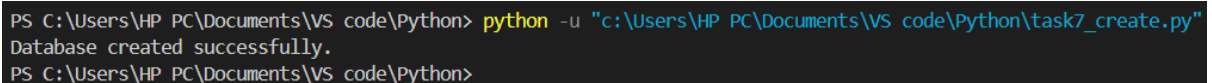
#### PYTHON SCRIPT :

##### # To connect sales dataset :

- Create a file and save it as create.py
- Then run the following code :

```
import pandas as pd
import sqlite3
df = pd.read_csv("task7.csv")
conn = sqlite3.connect("task7.db")
df.to_sql("sales", conn, if_exists="replace", index=False)
conn.close()
print("Database created successfully.")
```

##### # Database created Successfully



```
PS C:\Users\HP PC\Documents\VS code\Python> python -u "c:\Users\HP PC\Documents\VS code\Python\task7_create.py"
Database created successfully.
PS C:\Users\HP PC\Documents\VS code\Python>
```

##### # SQL Queries :

##### Create a new file task7.py for the following program

```
import sqlite3
import pandas as pd
import matplotlib.pyplot as plt
conn = sqlite3.connect("task7.db")
query = """
SELECT
    product,
    SUM(quantity) AS total_qty,
```

```

        ROUND(SUM(quantity * unit_price), 2) AS revenue
    FROM sales
    GROUP BY product
"""

df = pd.read_sql_query(query, conn)
conn.close()
print("Sales Summary by Product:\n")
print(df)

plt.figure(figsize=(10, 6))
plt.bar(df['product'], df['revenue'], color='blue')
plt.title('Revenue by Product')
plt.xlabel('Product')
plt.ylabel('Revenue')
plt.xticks(rotation=45)
plt.tight_layout()
plt.savefig("task7.png")
plt.show()

```

```

PS C:\Users\HP PC\Documents\VS code\Python> python -u "c:\Users\HP PC\Documents\VS code\Python\task7.py"
Sales Summary by Product:
   product  total_qty  revenue
0   Camera         253  114664.72
1 Headphones         115   52201.00
2  Keyboard         170   97902.73
3   Laptop          95   68085.33
4   Monitor         121   60742.96
5    Mouse          79   48249.50
6   Printer          67   40066.10
7 Smartphone          87   41977.84
8 Smartwatch          46   25368.67
9   Tablet          44   23610.92
PS C:\Users\HP PC\Documents\VS code\Python>

```

