SQL for Basic Sales Summary Using SQLite

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Objective: Use SQL inside Python to extract basic sales information (such as total quantity sold and total revenue) from a small SQLite database, and display the output using print statements and a simple bar chart.

Tools:

SQLite (built-in with Python)

Python with sqlite3, pandas, and matplotlib

Deliverables:

Python script: sales_summary.py
Task summary with explanation
Output screenshot (printed query results)

Bar chart image: sales_chart.png

Dataset: We created a custom SQLite database from scratch using Python.

• Database File: sales_data.db

• Table Name: sales

Columns:

id (INTEGER, primary key)

product (TEXT)

quantity (INTEGER)

o "Price(Rs.)"(REAL)

Data Volume: 28 records were inserted with realistic fruit product names, quantities, and price values

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Task Summary:

In this task, we did not use any external SQL software. Instead, we created an SQLite database directly from Python using the sqlite3 module. A sales table was created and populated with about 28 sample records.

Then, using SQL inside Python:

- We wrote queries to calculate total quantity sold and total revenue per product.
- We also fetched the overall total quantity and revenue across all products.
- An additional query was used to display the top 5 products by revenue.
- The result of the first query was visualized using a bar chart made with matplotlib.

All query results were printed to the console, and the chart was displayed during script execution.

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----- Perform Task and Screenshots -----

1. Creating the Database and Table Output:

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| Form | Fig. |
```

2. Sales Summary Queries Output:

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