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Task 6: Sales Trend Analysis Using Aggregations (SQLite)
Step 1: Create table
CREATE TABLE online sales (
  order_id INTEGER,
  order_date TEXT,
  product id INTEGER,
  amount REAL
);
-- Step 2: Insert data
INSERT INTO online sales VALUES (101, '2024-01-05', 1, 120.0);
INSERT INTO online_sales VALUES (102, '2024-01-10', 2, 80.0);
INSERT INTO online_sales VALUES (103, '2024-02-01', 3, 150.0); INSERT INTO online_sales VALUES (104, '2024-02-15', 1, 220.0);
INSERT INTO online_sales VALUES (105, '2024-03-03', 2, 90.0);
INSERT INTO online_sales VALUES (106, '2024-03-15', 2, 110.0);
INSERT INTO online_sales VALUES (107, '2024-03-25', 3, 250.0);
INSERT INTO online_sales VALUES (108, '2024-04-04', 1, 300.0);
INSERT INTO online sales VALUES (109, '2024-04-20', 2, 130.0);
INSERT INTO online sales VALUES (110, '2024-04-25', 3, 75.0);
-- Step 3: Create view
CREATE VIEW sales_monthly AS
  strftime('%Y', order_date) AS year,
  strftime('%m', order_date) AS month,
  SUM(amount) AS monthly_revenue,
  COUNT(DISTINCT order_id) AS order_volume
FROM
  online sales
GROUP BY
  year, month
ORDER BY
  year, month;
-- Step 4: Query all
SELECT * FROM sales_monthly;
sqlite> SELECT * FROM sales_monthly;
2024 | 01 | 600.0 | 2
2024 | 02 | 1110.0 | 2
2024 | 03 | 1350.0 | 3
2024 | 04 | 1515.0 | 3
-- Step 5: Filtered year
SELECT * FROM sales_monthly WHERE year = '2024';
```

```
sqlite> -- Step 5: Filtered year

[sqlite> SELECT * FROM sales_monthly WHERE year = '2024';

2024|01|600.0|2

2024|02|1110.0|2

2024|03|1350.0|3

2024|04|<u>1</u>515.0|3
```