

TASK 6: Sales Trend Analysis Using Aggregations

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Windows PowerShell
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PS C:\Users\HP> Mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.39 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> Create DATABASE online_sales2;
Query OK, 1 row affected (0.01 sec)

mysql> USE online_sales2;
Database changed
mysql> CREATE TABLE online_sales (
  ->   order_id INT PRIMARY KEY,
  ->   customer_name VARCHAR(100),
  ->   order_date DATE,
  ->   amount DECIMAL(10,2),
  ->   product_id INT
  -> );
Query OK, 0 rows affected (0.03 sec)

mysql> CREATE TABLE online_sales2 (
  ->   order_id INT PRIMARY KEY,
  ->   customer_name VARCHAR(100),
  ->   order_date DATE,
  ->   amount DECIMAL(10,2),
  ->   product_id INT
  -> );
Query OK, 0 rows affected (0.03 sec)

mysql> DESCRIBE online_sales2;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| order_id   | int           | NO   | PRI | NULL    |       |
| customer_name | varchar(100)  | YES  |     | NULL    |       |
| order_date | date          | YES  |     | NULL    |       |
| amount     | decimal(10,2) | YES  |     | NULL    |       |
| product_id | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> INSERT INTO online_sales2 (order_id, customer_name, order_date, amount, product_id) VALUES
-> (1001, 'Anita Sharma', '2022-01-15', 120.50, 101),
-> (1002, 'Rahul Mehra', '2022-01-20', 75.00, 102),
-> (1003, 'Sita Verma', '2022-02-10', 210.99, 103),
-> (1004, 'John Dsouza', '2022-02-18', 320.00, 104),
-> (1005, 'Neha Roy', '2022-03-05', 89.99, 105),
-> (1006, 'Alok Gupta', '2022-03-12', 450.00, 106),
-> (1007, 'Pooja Iyer', '2022-04-22', 135.00, 107),
-> (1008, 'Aman Khan', '2022-05-03', 99.99, 108),
-> (1009, 'Divya Joshi', '2022-05-11', 205.00, 109),
-> (1010, 'Kabir Sen', '2022-06-25', 399.99, 110),
-> (1011, 'Ravi Rathi', '2023-01-15', 199.99, 101),
-> (1012, 'Meena Patel', '2023-02-10', 250.00, 102),
-> (1013, 'Tina Fernandes', '2023-03-14', 300.50, 103),
-> (1014, 'Gaurav Jain', '2023-04-10', 180.00, 104),
-> (1015, 'Kiran Das', '2023-05-19', 290.25, 105),
-> (1016, 'Sneha Kapoor', '2023-06-22', 310.75, 106);
```

Query OK, 16 rows affected (0.01 sec)
Records: 16 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM online_sales2;
```

order_id	customer_name	order_date	amount	product_id
1001	Anita Sharma	2022-01-15	120.50	101
1002	Rahul Mehra	2022-01-20	75.00	102
1003	Sita Verma	2022-02-10	210.99	103
1004	John Dsouza	2022-02-18	320.00	104
1005	Neha Roy	2022-03-05	89.99	105
1006	Alok Gupta	2022-03-12	450.00	106
1007	Pooja Iyer	2022-04-22	135.00	107
1008	Aman Khan	2022-05-03	99.99	108
1009	Divya Joshi	2022-05-11	205.00	109
1010	Kabir Sen	2022-06-25	399.99	110
1011	Ravi Rathi	2023-01-15	199.99	101
1012	Meena Patel	2023-02-10	250.00	102
1013	Tina Fernandes	2023-03-14	300.50	103
1014	Gaurav Jain	2023-04-10	180.00	104
1015	Kiran Das	2023-05-19	290.25	105
1016	Sneha Kapoor	2023-06-22	310.75	106

16 rows in set (0.00 sec)

```
mysql> SELECT
-> YEAR(order_date) AS year,
-> MONTH(order_date) AS month,
-> SUM(amount) AS total_revenue,
-> COUNT(DISTINCT order_id) AS order_volume
-> FROM
-> online_sales2
-> GROUP BY
-> YEAR(order_date), MONTH(order_date)
-> ORDER BY
-> year, month;
```

year	month	total_revenue	order_volume
2022	1	195.50	2
2022	2	530.99	2
2022	3	539.99	2
2022	4	135.00	1
2022	5	304.99	2
2022	6	399.99	1
2023	1	199.99	1
2023	2	250.00	1
2023	3	300.50	1
2023	4	180.00	1
2023	5	290.25	1
2023	6	310.75	1

12 rows in set (0.00 sec)

