create database online_sales;

show databases;

use online_sales;

create table orders(

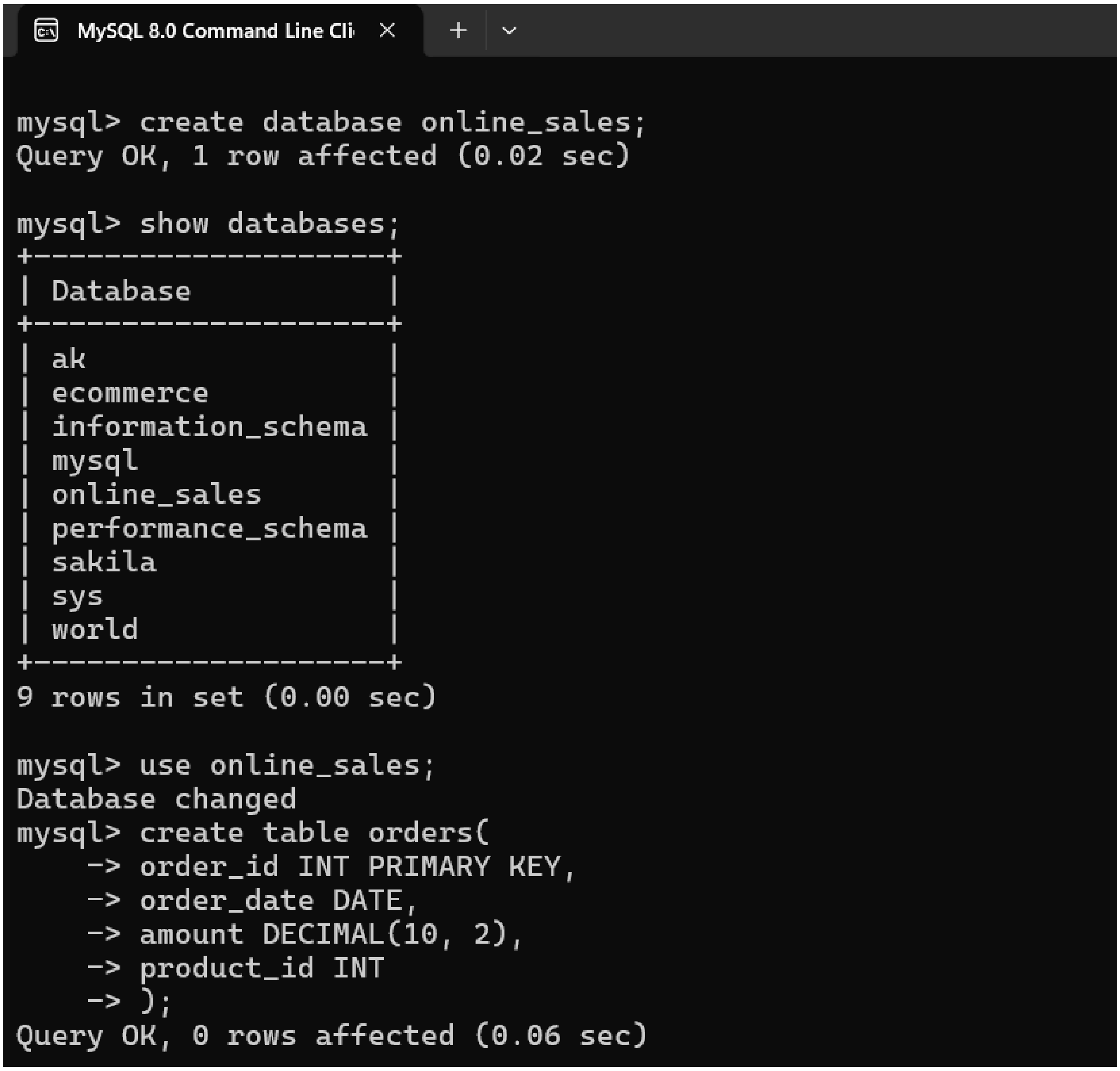
   order_id INT PRIMARY KEY,

    order_date DATE,

   amount DECIMAL(10, 2),

   product_id INT

   );

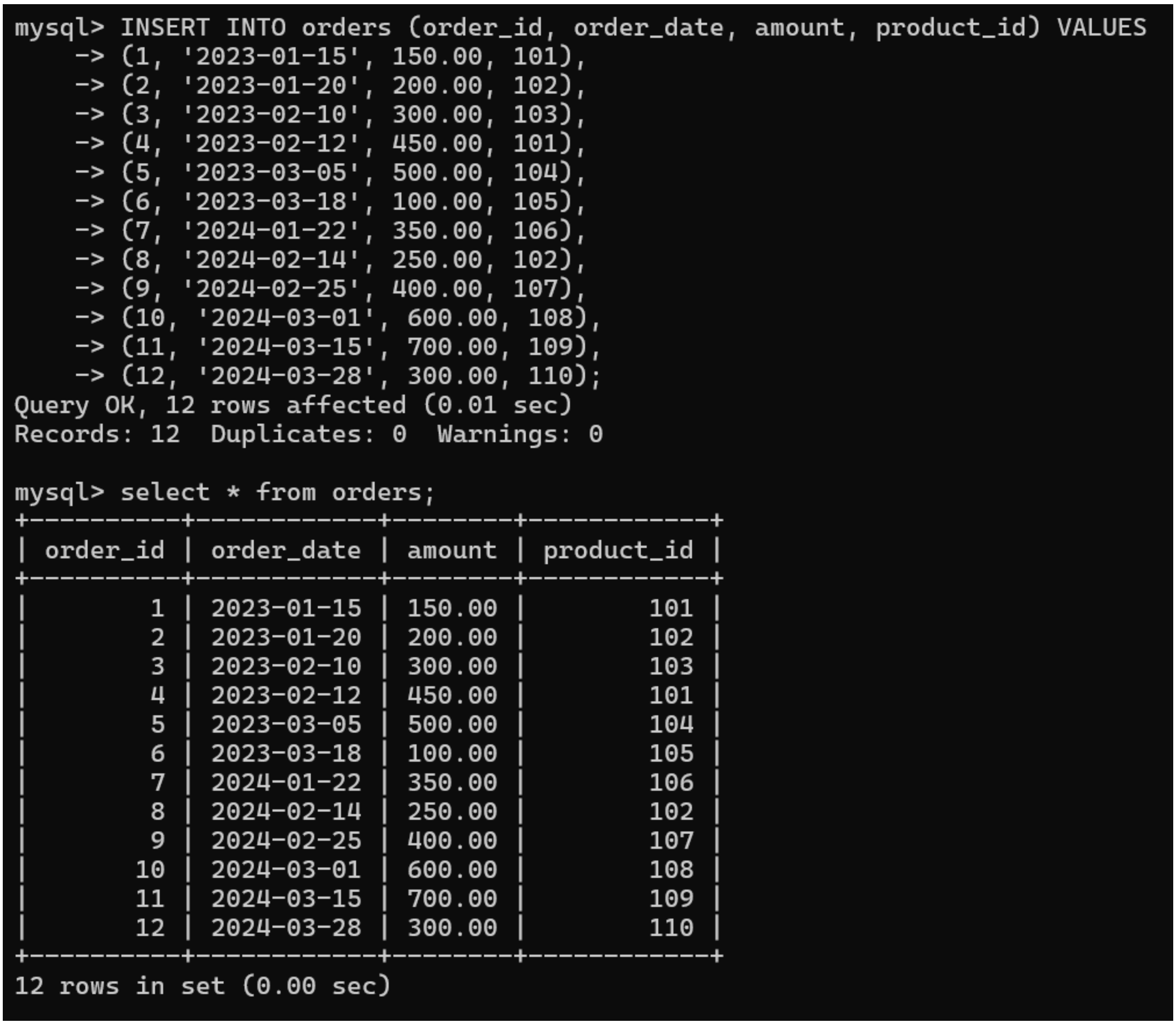


```
mysql> create database online_sales;
Query OK, 1 row affected (0.02 sec)

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| ak                 |
| ecommerce          |
| information_schema |
| mysql              |
| online_sales       |
| performance_schema |
| sakila             |
| sys                |
| world              |
+--------------------+
9 rows in set (0.00 sec)

mysql> use online_sales;
Database changed
mysql> create table orders(
    -> order_id INT PRIMARY KEY,
    -> order_date DATE,
    -> amount DECIMAL(10, 2),
    -> product_id INT
    -> );
Query OK, 0 rows affected (0.06 sec)
```

INSERT INTO orders (order_id, order_date, amount, product_id) VALUES

(1, '2023-01-15', 150.00, 101), (2, '2023-01-20', 200.00, 102), (3, '2023-02-10', 300.00, 103), (4, '2023-02-12', 450.00, 101), (5, '2023-03-05', 500.00, 104), (6, '2023-03-18', 100.00, 105), (7, '2024-01-22', 350.00, 106), (8, '2024-02-14', 250.00, 102), (9, '2024-02-25', 400.00, 107), (10, '2024-03-01', 600.00, 108), (11, '2024-03-15', 700.00, 109), (12, '2024-03-28', 300.00, 110);

select * from orders;

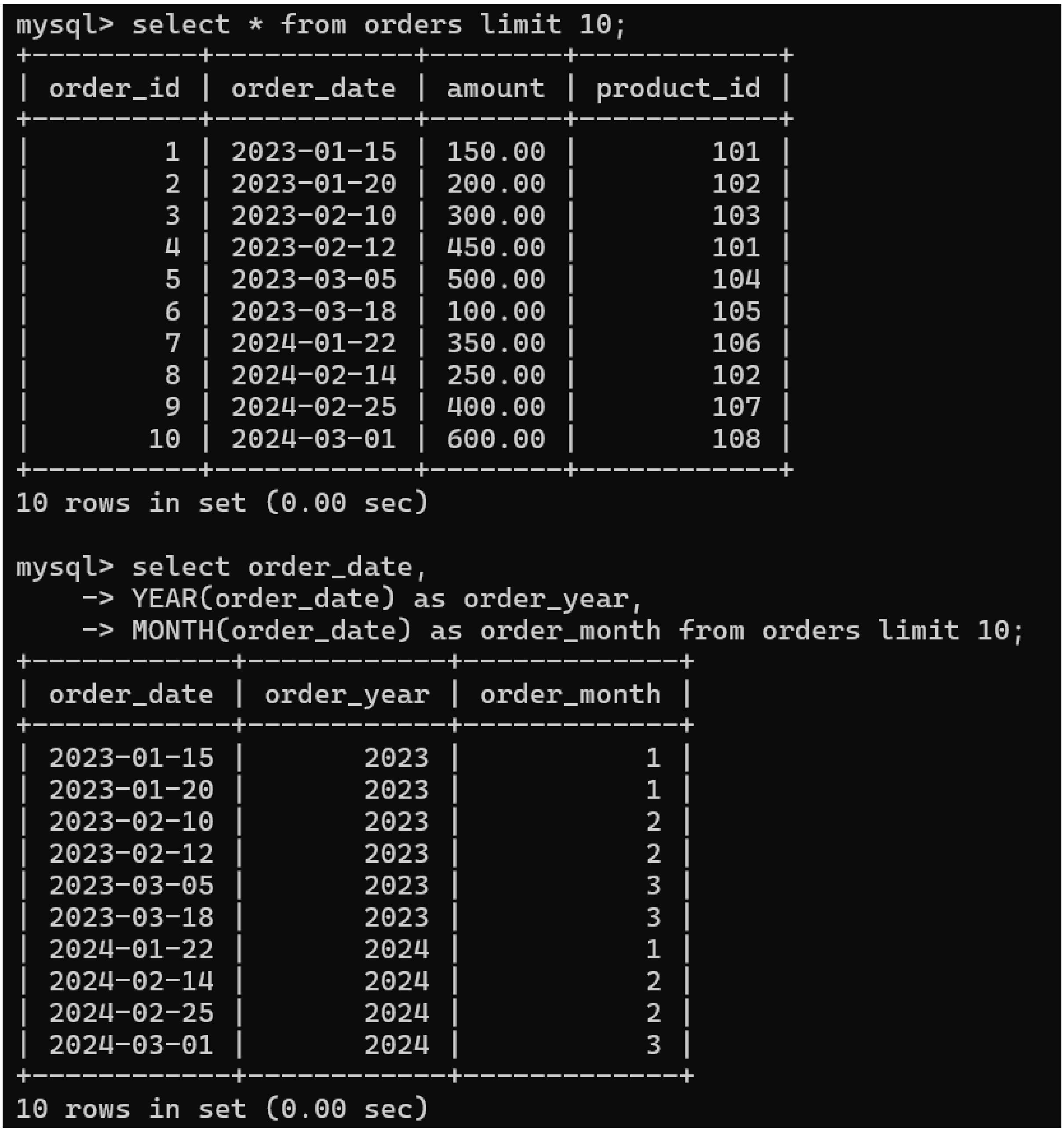


```
mysql> INSERT INTO orders (order_id, order_date, amount, product_id) VALUES
    -> (1, '2023-01-15', 150.00, 101),
    -> (2, '2023-01-20', 200.00, 102),
    -> (3, '2023-02-10', 300.00, 103),
    -> (4, '2023-02-12', 450.00, 101),
    -> (5, '2023-03-05', 500.00, 104),
    -> (6, '2023-03-18', 100.00, 105),
    -> (7, '2024-01-22', 350.00, 106),
    -> (8, '2024-02-14', 250.00, 102),
    -> (9, '2024-02-25', 400.00, 107),
    -> (10, '2024-03-01', 600.00, 108),
    -> (11, '2024-03-15', 700.00, 109),
    -> (12, '2024-03-28', 300.00, 110);
Query OK, 12 rows affected (0.01 sec)
Records: 12  Duplicates: 0  Warnings: 0

mysql> select * from orders;
+----------+------------+--------+------------+
| order_id | order_date | amount | product_id |
+----------+------------+--------+------------+
|        1 | 2023-01-15 | 150.00 |        101 |
|        2 | 2023-01-20 | 200.00 |        102 |
|        3 | 2023-02-10 | 300.00 |        103 |
|        4 | 2023-02-12 | 450.00 |        101 |
|        5 | 2023-03-05 | 500.00 |        104 |
|        6 | 2023-03-18 | 100.00 |        105 |
|        7 | 2024-01-22 | 350.00 |        106 |
|        8 | 2024-02-14 | 250.00 |        102 |
|        9 | 2024-02-25 | 400.00 |        107 |
|       10 | 2024-03-01 | 600.00 |        108 |
|       11 | 2024-03-15 | 700.00 |        109 |
|       12 | 2024-03-28 | 300.00 |        110 |
+----------+------------+--------+------------+
12 rows in set (0.00 sec)
```

select * from orders limit 10; select order_date,

-> YEAR(order_date) as order_year,

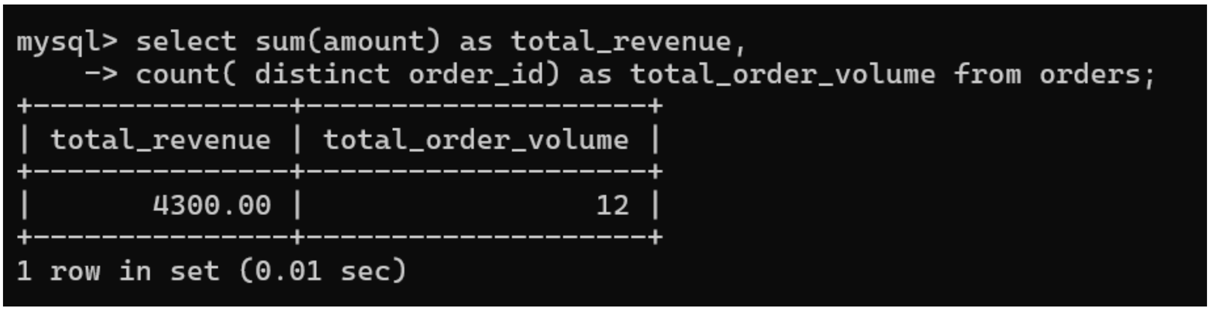
-> MONTH(order_date) as order_month from orders limit 10;



```
mysql> select * from orders limit 10;
+----------+------------+--------+------------+
| order_id | order_date | amount | product_id |
+----------+------------+--------+------------+
|        1 | 2023-01-15 | 150.00 |        101 |
|        2 | 2023-01-20 | 200.00 |        102 |
|        3 | 2023-02-10 | 300.00 |        103 |
|        4 | 2023-02-12 | 450.00 |        101 |
|        5 | 2023-03-05 | 500.00 |        104 |
|        6 | 2023-03-18 | 100.00 |        105 |
|        7 | 2024-01-22 | 350.00 |        106 |
|        8 | 2024-02-14 | 250.00 |        102 |
|        9 | 2024-02-25 | 400.00 |        107 |
|       10 | 2024-03-01 | 600.00 |        108 |
+----------+------------+--------+------------+
10 rows in set (0.00 sec)

mysql> select order_date,
    -> YEAR(order_date) as order_year,
    -> MONTH(order_date) as order_month from orders limit 10;
+------------+------------+-------------+
| order_date | order_year | order_month |
+------------+------------+-------------+
| 2023-01-15 |       2023 |           1 |
| 2023-01-20 |       2023 |           1 |
| 2023-02-10 |       2023 |           2 |
| 2023-02-12 |       2023 |           2 |
| 2023-03-05 |       2023 |           3 |
| 2023-03-18 |       2023 |           3 |
| 2024-01-22 |       2024 |           1 |
| 2024-02-14 |       2024 |           2 |
| 2024-02-25 |       2024 |           2 |
| 2024-03-01 |       2024 |           3 |
+------------+------------+-------------+
10 rows in set (0.00 sec)
```

select sum(amount) as total_revenue,

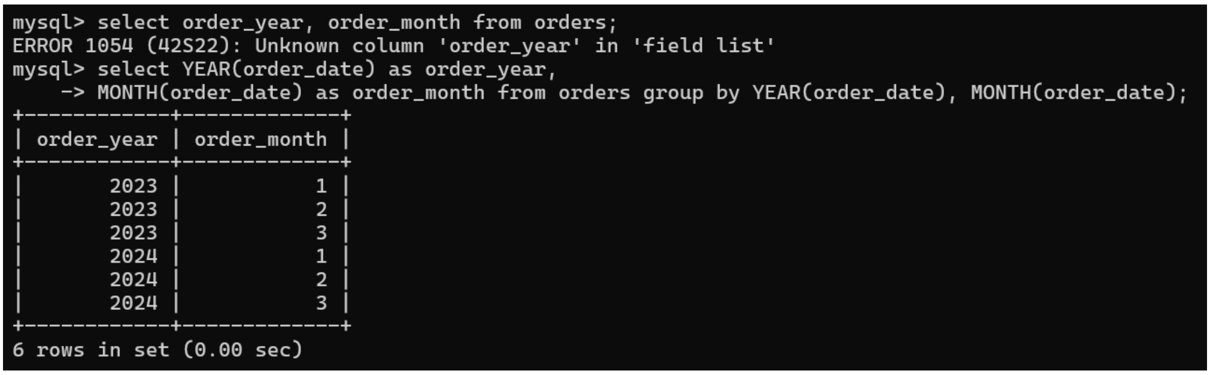
-> count(distinct order_id) as total_order_volume from orders;



```
mysql> select sum(amount) as total_revenue,
    -> count( distinct order_id) as total_order_volume from orders;
+---------------+--------------------+
| total_revenue | total_order_volume |
+---------------+--------------------+
|       4300.00 |                 12 |
+---------------+--------------------+
1 row in set (0.01 sec)
```

select YEAR(order_date) as order_year,

-> MONTH(order_date) as order_month from orders group by YEAR(order_date), MONTH(order_date);



```
mysql> select order_year, order_month from orders;
ERROR 1054 (42S22): Unknown column 'order_year' in 'field list'
mysql> select YEAR(order_date) as order_year,
    -> MONTH(order_date) as order_month from orders group by YEAR(order_date), MONTH(order_date);
+------------+-------------+
| order_year | order_month |
+------------+-------------+
|       2023 |           1 |
|       2023 |           2 |
|       2023 |           3 |
|       2024 |           1 |
|       2024 |           2 |
|       2024 |           3 |
+------------+-------------+
6 rows in set (0.00 sec)
```

select YEAR(order_date) as order_year,

-> MONTH(order_date) as order_month,

-> sum(amount) as total_revenue,

-> count(distinct order_id) as total_order_volume from orders group by YEAR(order_date), MONTH(order_date);

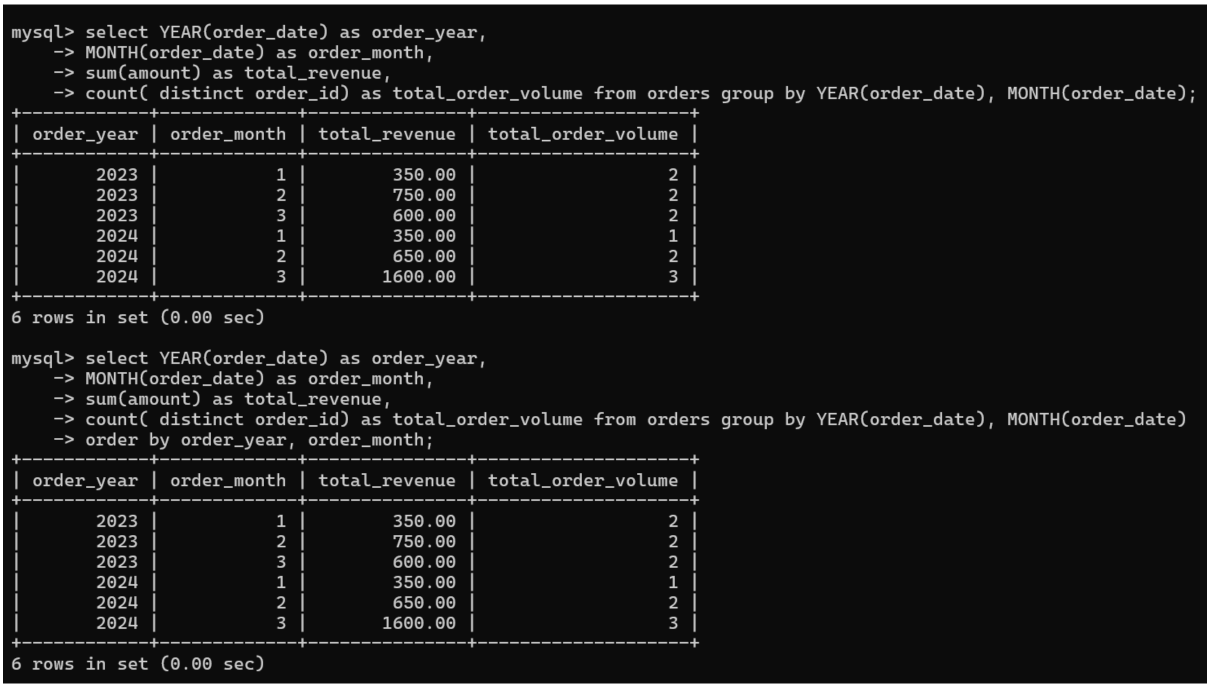
select YEAR(order_date) as order_year,

-> MONTH(order_date) as order_month,

-> sum(amount) as total_revenue,

-> count(distinct order_id) as total_order_volume from orders group by YEAR(order_date), MONTH(order_date)

-> order by order_year, order_month;



```
mysql> select YEAR(order_date) as order_year,
    -> MONTH(order_date) as order_month,
    -> sum(amount) as total_revenue,
    -> count( distinct order_id) as total_order_volume from orders group by YEAR(order_date), MONTH(order_date);
+------------+-------------+---------------+--------------------+
| order_year | order_month | total_revenue | total_order_volume |
+------------+-------------+---------------+--------------------+
|       2023 |           1 |        350.00 |                  2 |
|       2023 |           2 |        750.00 |                  2 |
|       2023 |           3 |        600.00 |                  2 |
|       2024 |           1 |        350.00 |                  1 |
|       2024 |           2 |        650.00 |                  2 |
|       2024 |           3 |       1600.00 |                  3 |
+------------+-------------+---------------+--------------------+
6 rows in set (0.00 sec)

mysql> select YEAR(order_date) as order_year,
    -> MONTH(order_date) as order_month,
    -> sum(amount) as total_revenue,
    -> count( distinct order_id) as total_order_volume from orders group by YEAR(order_date), MONTH(order_date)
    -> order by order_year, order_month;
+------------+-------------+---------------+--------------------+
| order_year | order_month | total_revenue | total_order_volume |
+------------+-------------+---------------+--------------------+
|       2023 |           1 |        350.00 |                  2 |
|       2023 |           2 |        750.00 |                  2 |
|       2023 |           3 |        600.00 |                  2 |
|       2024 |           1 |        350.00 |                  1 |
|       2024 |           2 |        650.00 |                  2 |
|       2024 |           3 |       1600.00 |                  3 |
+------------+-------------+---------------+--------------------+
6 rows in set (0.00 sec)
```

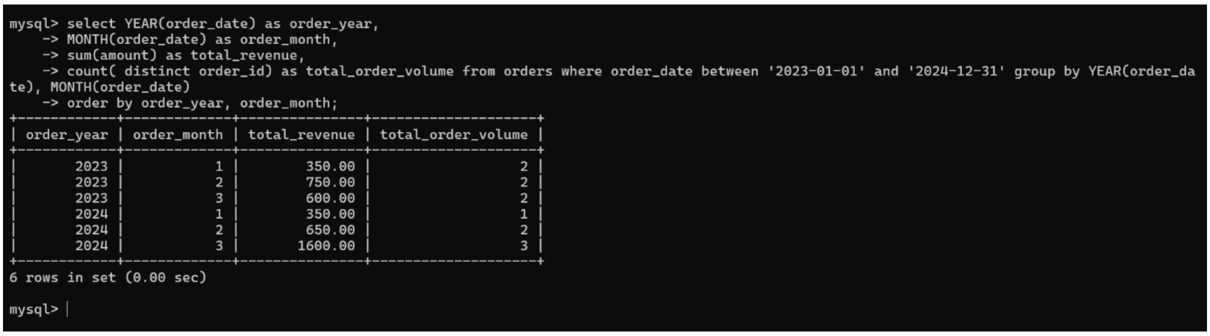
select YEAR(order_date) as order_year,

-> MONTH(order_date) as order_month,

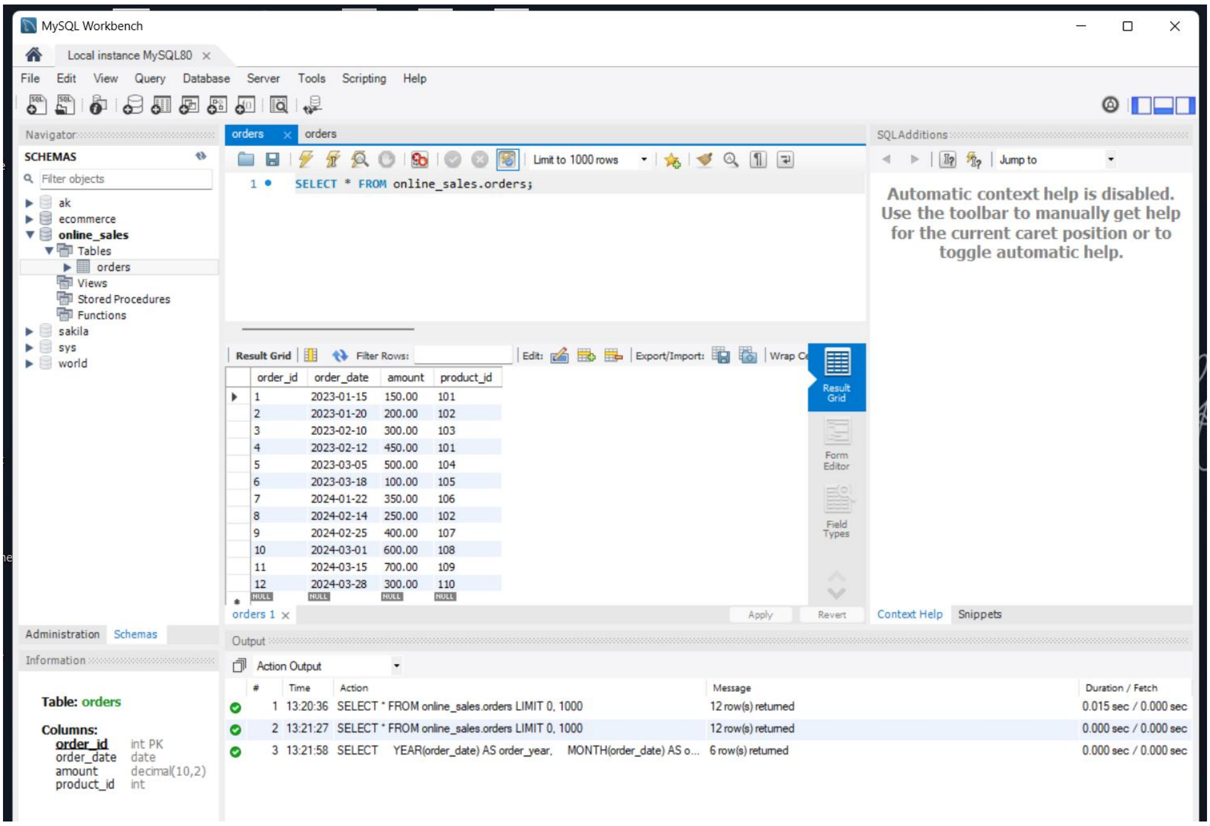
-> sum(amount) as total_revenue,

-> count(distinct order_id) as total_order_volume from orders where order_date between '2023-01-01' and '2024-12-31' group by YEAR(order_date), MONTH(order_date)

-> order by order_year, order_month;



```
mysql> select YEAR(order_date) as order_year,
    -> MONTH(order_date) as order_month,
    -> sum(amount) as total_revenue,
    -> count( distinct order_id) as total_order_volume from orders where order_date between '2023-01-01' and '2024-12-31' group by YEAR(order_da
te), MONTH(order_date)
    -> order by order_year, order_month;
+------------+-------------+---------------+--------------------+
| order_year | order_month | total_revenue | total_order_volume |
+------------+-------------+---------------+--------------------+
|       2023 |           1 |        350.00 |                  2 |
|       2023 |           2 |        750.00 |                  2 |
|       2023 |           3 |        600.00 |                  2 |
|       2024 |           1 |        350.00 |                  1 |
|       2024 |           2 |        650.00 |                  2 |
|       2024 |           3 |       1600.00 |                  3 |
+------------+-------------+---------------+--------------------+
6 rows in set (0.00 sec)

mysql> |
```



```
1 ● SELECT * FROM online_sales.orders;
```

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

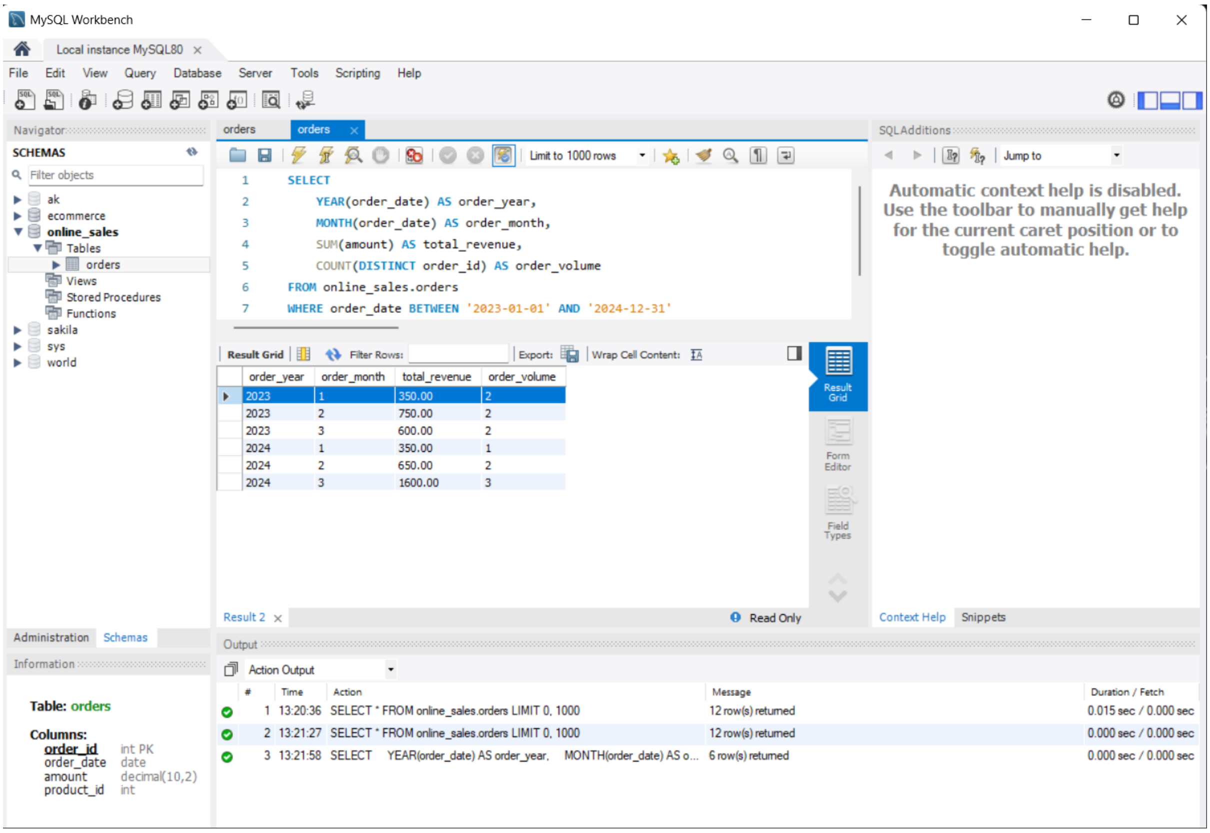
order_id	order_date	amount	product_id
1	2023-01-15	150.00	101
2	2023-01-20	200.00	102
3	2023-02-10	300.00	103
4	2023-02-12	450.00	101
5	2023-03-05	500.00	104
6	2023-03-18	100.00	105
7	2024-01-22	350.00	106
8	2024-02-14	250.00	102
9	2024-02-25	400.00	107
10	2024-03-01	600.00	108
11	2024-03-15	700.00	109
12	2024-03-28	300.00	110
NULL	NULL	NULL	NULL

Table: orders

Columns:

order_id	int PK
order_date	date
amount	decimal(10,2)
product_id	int

	#	Time	Action	Message	Duration / Fetch
✓	1	13:20:36	SELECT * FROM online_sales.orders LIMIT 0, 1000	12 row(s) returned	0.015 sec / 0.000 sec
✓	2	13:21:27	SELECT * FROM online_sales.orders LIMIT 0, 1000	12 row(s) returned	0.000 sec / 0.000 sec
✓	3	13:21:58	SELECT YEAR(order_date) AS order_year, MONTH(order_date) AS o...	6 row(s) returned	0.000 sec / 0.000 sec



```
SELECT
    YEAR(order_date) AS order_year,
    MONTH(order_date) AS order_month,
    SUM(amount) AS total_revenue,
    COUNT(DISTINCT order_id) AS order_volume
FROM online_sales.orders
WHERE order_date BETWEEN '2023-01-01' AND '2024-12-31'
```

order_year	order_month	total_revenue	order_volume
2023	1	350.00	2
2023	2	750.00	2
2023	3	600.00	2
2024	1	350.00	1
2024	2	650.00	2
2024	3	1600.00	3

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Table: orders

Columns:

```
order_id     int PK
order_date   date
amount       decimal(10,2)
product_id   int
```

```
 #  Time      Action                                                     Message            Duration / Fetch
 1  13:20:36  SELECT * FROM online_sales.orders LIMIT 0, 1000            12 row(s) returned  0.015 sec / 0.000 sec
 2  13:21:27  SELECT * FROM online_sales.orders LIMIT 0, 1000            12 row(s) returned  0.000 sec / 0.000 sec
 3  13:21:58  SELECT    YEAR(order_date) AS order_year,    MONTH(order_date) AS o...  6 row(s) returned  0.000 sec / 0.000 sec
```