```
 Database           |
--------------------+
 information_schema |
 my_datasets_db     |
 mysql              |
 online_sales       |
 performance_schema |
 phpmyadmin         |
 retail business    |
 test               |
--------------------+
 rows in set (0.084 sec)

MariaDB [(none)]> use online_sales;
Database changed
MariaDB [online_sales]> show tables;
--------------------------+
 Tables_in_online_sales |
--------------------------+
 online_sales_data      |
--------------------------+
 row in set (0.001 sec)

MariaDB [online_sales]> select*from online_sales_data limit=5;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '=5' at line 1
MariaDB [online_sales]> select*from online_sales_data limit 5;
```

Transaction ID	Date	Product Category	Product Name	Units Sold	Unit Price	Total Revenue	Region	Payment Method
10001	2024-01-01	Electronics	iPhone 14 Pro	2	999.99	1999.98	North America	Credit Card
10002	2024-01-02	Home Appliances	Dyson V11 Vacuum	1	499.99	499.99	Europe	PayPal
10003	2024-01-03	Clothing	Levi's 501 Jeans	3	69.99	209.97	Asia	Debit Card
10004	2024-01-04	Books	The Da Vinci Code	4	15.99	63.96	North America	Credit Card
10005	2024-01-05	Beauty Products	Neutrogena Skincare Set	1	89.99	89.99	Europe	PayPal

```
 rows in set (0.069 sec)

MariaDB [online_sales]> SELECT
    ->     YEAR(Date) AS order_year,
    ->     MONTH(Date) AS order_month,
    ->     SUM(`Total Revenue`) AS total_revenue,
    ->     COUNT(DISTINCT `Transaction ID`) AS total_orders
    -> FROM
    ->     online_sales_data
    -> GROUP BY
    ->     YEAR(Date),
    ->     MONTH(Date)
    -> ORDER BY
    ->     order_year,
    ->     order_month;
```

order_year	order_month	total_revenue	total_orders
2024	1	14548.319999999992	31
2024	2	10803.369999999999	29
2024	3	12849.239999999996	31
2024	4	12451.689999999995	30
2024	5	8455.49	31
2024	6	7384.549999999998	30
2024	7	6797.08	31
2024	8	7278.109999999999	27

```
MariaDB [online_sales]> SELECT
    ->     Region,
    ->     YEAR(Date) AS order_year,
    ->     MONTH(Date) AS order_month,
    ->     SUM(`Total Revenue`) AS total_revenue,
    ->     COUNT(DISTINCT `Transaction ID`) AS total_orders
    -> FROM
    ->     online_sales_data
    -> GROUP BY
    ->     Region, YEAR(Date), MONTH(Date)
    -> ORDER BY
    ->     Region, order_year, order_month;
```

Region	order_year	order_month	total_revenue	total_orders
Asia	2024	1	3369.6699999999996	10
Asia	2024	2	4278.679999999999	10
Asia	2024	3	2619.6	10
Asia	2024	4	3329.5999999999995	10
Asia	2024	5	1989.5400000000002	10
Asia	2024	6	1945.38	10
Asia	2024	7	2744.36	11
Asia	2024	8	2178.62	9
Europe	2024	1	2869.8899999999994	10
Europe	2024	2	3201.8999999999996	10
Europe	2024	3	5476.91	10
Europe	2024	4	2191.33	10
Europe	2024	5	2117.12	11
Europe	2024	6	1689.38	10
Europe	2024	7	1881.8700000000001	10
Europe	2024	8	1839.66	9
North America	2024	1	8308.76	11
North America	2024	2	3322.79	9
North America	2024	3	4752.73	11
North America	2024	4	6930.76	10
North America	2024	5	4348.83	10
North America	2024	6	3749.79	10
North America	2024	7	2170.8500000000004	10
North America	2024	8	3259.8299999999995	9

24 rows in set (0.003 sec)

```
MariaDB [online_sales]> SELECT
    ->      `Product Category`,
    ->      SUM(`Total Revenue`) AS total_revenue
    -> FROM
    ->      online_sales_data
    -> GROUP BY
    ->      `Product Category`
    -> ORDER BY
    ->      total_revenue DESC
    -> LIMIT 1;
+------------------+--------------------+
| Product Category | total_revenue      |
+------------------+--------------------+
| Electronics      | 34982.41000000001  |
+------------------+--------------------+
 row in set (0.034 sec)

MariaDB [online_sales]> SELECT
    ->      `Product Category`,
    ->      ROUND(SUM(`Total Revenue`),2) AS total_revenue
    -> FROM
    ->      online_sales_data
    -> GROUP BY
    ->      `Product Category`
    -> ORDER BY
    ->      total_revenue DESC
    -> LIMIT 1;
+------------------+---------------+
| Product Category | total_revenue |
+------------------+---------------+
| Electronics      |      34982.41 |
+------------------+---------------+
 row in set (0.046 sec)
```

```
MariaDB [online_sales]> SELECT
    ->    `Product Category`,
    ->    ROUND(SUM(`Total Revenue`), 2) AS total_revenue
    -> FROM online_sales_data
    -> WHERE MONTH(`Date`) IN (1, 2, 3)
    -> GROUP BY `Product Category`
    -> ORDER BY total_revenue DESC
    -> LIMIT 1;
+------------------+---------------+
| Product Category | total_revenue |
+------------------+---------------+
| Electronics      |      15399.68 |
+------------------+---------------+
1 row in set (0.046 sec)
```