

SQL QUERIES AND OUTPUT

1) write a query to create database named 'sales_analysis'

Query :

#Creating database

```
CREATE DATABASE sales_analysis;
```

Output :

✔ 1 19:36:13 Create database sales_analysis

2) Write a query to use that database

Query :

#Use Database

```
USE sales_analysis;
```

Output :

✔ 2 19:37:55 USE sales_analysis

3) Write query to create table named 'online_sales'

Query :

#Creating Table

```
CREATE TABLE online_sales (
```

```
    order_id INT,
```

```
    order_date DATE,
```

```
    product_id INT,
```

```
    amount DECIMAL(10,2)
```

```
);
```

Output :

✔ 3 19:38:01 CREATE TABLE online_sales (order_id INT, order_date DATE, product_id INT, amount DECIMAL(10,2)) 0 row(s) affected

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4) Write a query to insert atleast 50 records in a table

Query :

#inserting records

```
INSERT INTO online_sales (order_id, order_date, product_id, amount) VALUES
```

```
(1, '2024-01-05', 101, 500.00),  
(2, '2024-01-06', 102, 300.00),  
(3, '2024-01-07', 103, 450.00),  
(4, '2024-01-08', 104, 700.00),  
(5, '2024-01-09', 105, 650.00),  
(6, '2024-01-10', 106, 200.00),  
(7, '2024-01-11', 107, 900.00),  
(8, '2024-01-12', 101, 120.00),  
(9, '2024-01-13', 102, 350.00),  
(10, '2024-01-14', 103, 550.00),  
(11, '2024-01-15', 104, 250.00),  
(12, '2024-01-16', 105, 450.00),  
(13, '2024-01-17', 106, 800.00),  
(14, '2024-01-18', 107, 600.00),  
(15, '2024-01-19', 101, 1000.00),  
(16, '2024-01-20', 102, 300.00),  
(17, '2024-01-21', 103, 450.00),  
(18, '2024-01-22', 104, 700.00),  
(19, '2024-01-23', 105, 600.00),  
(20, '2024-01-24', 106, 150.00),  
(21, '2024-01-25', 107, 950.00),  
(22, '2024-01-26', 101, 500.00),  
(23, '2024-01-27', 102, 400.00),  
(24, '2024-01-28', 103, 800.00),  
(25, '2024-01-29', 104, 700.00),  
(26, '2024-01-30', 105, 550.00),  
(27, '2024-01-31', 106, 300.00),
```

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(28, '2024-02-01', 107, 450.00),
(29, '2024-02-02', 101, 600.00),
(30, '2024-02-03', 102, 500.00),
(31, '2024-02-04', 103, 700.00),
(32, '2024-02-05', 104, 800.00),
(33, '2024-02-06', 105, 600.00),
(34, '2024-02-07', 106, 350.00),
(35, '2024-02-08', 107, 120.00),
(36, '2024-02-09', 101, 900.00),
(37, '2024-02-10', 102, 250.00),
(38, '2024-02-11', 103, 650.00),
(39, '2024-02-12', 104, 550.00),
(40, '2024-02-13', 105, 750.00),
(41, '2024-02-14', 106, 300.00),
(42, '2024-02-15', 107, 800.00),
(43, '2024-02-16', 101, 400.00),
(44, '2024-02-17', 102, 150.00),
(45, '2024-02-18', 103, 500.00),
(46, '2024-02-19', 104, 600.00),
(47, '2024-02-20', 105, 300.00),
(48, '2024-02-21', 106, 450.00),
(49, '2024-02-22', 107, 550.00),
(50, '2024-02-23', 101, 700.00);

Output :

4 19:38:10 INSERT INTO online_sales (order_id, order_date, product_id, amount) VALUES (1, '2024-01-05', 101, 500.00), (2, '2024-... 50 row(s) affected Records: 50 Duplicates: 0 Warnings: 0

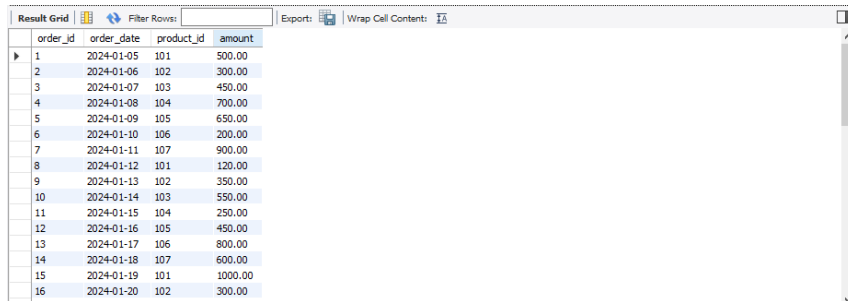
5) Write a query to view all records from the table

Query :

#View all records

```
SELECT * FROM online_sales;
```

Output :



	order_id	order_date	product_id	amount
▶	1	2024-01-05	101	500.00
	2	2024-01-06	102	300.00
	3	2024-01-07	103	450.00
	4	2024-01-08	104	700.00
	5	2024-01-09	105	650.00
	6	2024-01-10	106	200.00
	7	2024-01-11	107	900.00
	8	2024-01-12	101	120.00
	9	2024-01-13	102	350.00
	10	2024-01-14	103	550.00
	11	2024-01-15	104	250.00
	12	2024-01-16	105	450.00
	13	2024-01-17	106	800.00
	14	2024-01-18	107	600.00
	15	2024-01-19	101	1000.00
	16	2024-01-20	102	300.00

6) Show total revenue for each month.

Query :

```
SELECT MONTH(order_date) AS month, SUM(amount) AS total_revenue
```

```
FROM online_sales
```

```
GROUP BY MONTH(order_date);
```

Output :



	month	total_revenue
▶	1	14220.00
	2	11970.00

7) Count the number of distinct orders each month.

Query :

```
SELECT MONTH(order_date) AS month, COUNT(DISTINCT order_id) AS total_orders
```

```
FROM online_sales
```

```
GROUP BY MONTH(order_date);
```

Output :



	month	total_orders
▶	1	27
	2	23

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8) Calculate total revenue for each year.

Query :

```
SELECT YEAR(order_date) AS year, SUM(amount) AS total_revenue  
FROM online_sales  
GROUP BY YEAR(order_date);
```

Output :

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	year	total_revenue	
▶	2024	26190.00	

9) Show total revenue for each product.

Query :

```
SELECT product_id, SUM(amount) AS total_revenue  
FROM online_sales  
GROUP BY product_id;
```

Output :

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	product_id	total_revenue	
▶	101	4720.00	
	102	2250.00	
	103	4100.00	
	104	4300.00	
	105	3900.00	
	106	2550.00	
	107	4370.00	

10) Count total orders per product.

Query :

```
SELECT product_id, COUNT(order_id) AS total_orders  
FROM online_sales  
GROUP BY product_id;
```

Output :

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	product_id	total_orders	
▶	101	8	
	102	7	
	103	7	
	104	7	
	105	7	
	106	7	
	107	7	

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11) Find the month with the highest number of orders.

Query :

```
SELECT MONTH(order_date) AS month, COUNT(DISTINCT order_id) AS total_orders  
  
FROM online_sales  
  
GROUP BY MONTH(order_date)  
  
ORDER BY total_orders DESC  
  
LIMIT 1;
```

Output :

Result Grid			Filter Rows:
	month	total_orders	
▶	1	27	

12) Find the month with the lowest revenue.

Query :

```
SELECT MONTH(order_date) AS month, SUM(amount) AS total_revenue  
  
FROM online_sales  
  
GROUP BY MONTH(order_date)  
  
ORDER BY total_revenue ASC  
  
LIMIT 1;
```

Output :

Result Grid			Filter Rows:
	month	total_revenue	
▶	2	11970.00	

13) Display monthly revenue sorted from highest to lowest.

Query :

```
SELECT MONTH(order_date) AS month, SUM(amount) AS total_revenue  
FROM online_sales  
GROUP BY MONTH(order_date)  
ORDER BY total_revenue DESC;
```

Output :

Result Grid			Filter Rows:	
	month	total_revenue		
▶	1	14220.00		
	2	11970.00		

14) Display monthly order volume (count of distinct orders).

Query :

```
SELECT MONTH(order_date) AS month, COUNT(DISTINCT order_id) AS order_volume  
FROM online_sales  
GROUP BY MONTH(order_date);
```

Output :

Result Grid			Filter Rows:		Export:	Wrap Cell Content:
	month	order_volume				
▶	1	27				
	2	23				

15) Get total revenue per product for January.

Query :

```
SELECT product_id, SUM(amount) AS revenue  
FROM online_sales  
WHERE MONTH(order_date) = 1  
GROUP BY product_id;
```

Output :

Result Grid			Filter Rows:		Export:	Wrap Cell Content:
	product_id	revenue				
▶	101	2120.00				
	102	1350.00				
	103	2250.00				
	104	2350.00				
	105	2250.00				
	106	1450.00				
	107	2450.00				

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