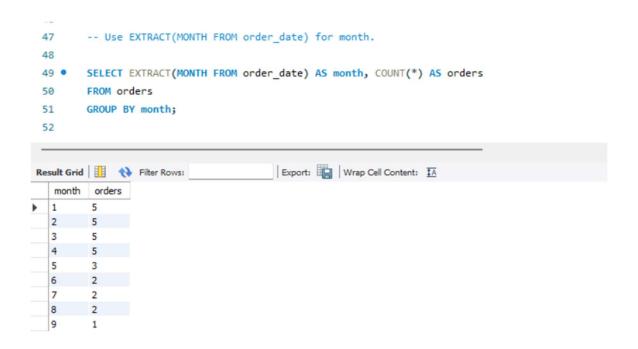# Online Sales [SQL]

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♣ Sales Trend Analysis Using Aggregations

- **QUERIES OUTPUT:**

➢ **Use EXTRACT(MONTH FROM order_date) for month.**

```
47    -- Use EXTRACT(MONTH FROM order_date) for month.
48
49  ●  SELECT EXTRACT(MONTH FROM order_date) AS month, COUNT(*) AS orders
50       FROM orders
51       GROUP BY month;
52
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

month	orders
1	5
2	5
3	5
4	5
5	3
6	2
7	2
8	2
9	1

➢ GROUP BY year/month.

```
55
56     -- GROUP BY year/month.
57
58  •  SELECT YEAR(order_date) AS year, MONTH(order_date) AS month
59     FROM orders
60     GROUP BY year, month;
61
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

year	month
2023	1
2023	2
2023	3
2023	4
2023	5
2024	1
2024	2
2024	3
2024	4
2024	5
2024	6
2024	7
2024	8
2024	9

➢ Use SUM() for revenue.

```
60
61     -- Use SUM() for revenue.
62
63  •  SELECT SUM(amount) as total_revenue
64     FROM orders;
65
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

total_revenue
16124.94

➢ COUNT(DISTINCT order_id) for volume.

```
66
67      -- COUNT(DISTINCT order_id) for volume.
68
69 •    SELECT COUNT(DISTINCT order_id) as total_orders
70      FROM orders;
71
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:

total_orders
30

➢ Use ORDER BY for sorting.

```
72
73      -- Use ORDER BY for sorting.
74
75 •    SELECT * FROM orders
76      ORDER BY order_date ASC;
77
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:

order_id	order_date	amount	product_name
14	2023-01-04	249.99	Mouse
1	2023-01-05	250.00	Laptop
2	2023-01-12	120.50	Mouse
3	2023-01-20	899.99	Smartphone
4	2023-02-03	350.00	Tablet
5	2023-02-14	75.00	Keyboard
6	2023-02-25	199.99	Smartwatch
7	2023-03-01	1500.00	TV
8	2023-03-15	45.00	Charger
9	2023-03-28	299.99	Headphones
10	2023-04-05	850.00	Laptop
11	2023-04-18	60.00	Mouse

➤ Limit results for specific time periods.

```sql
79    -- Limit results for specific time periods
80
81 •  SELECT * FROM orders
82    WHERE order_date BETWEEN '2024-01-01' AND '2024-06-30';
83
```

Result Grid | ▦ | ⇄ Filter Rows: [   ] | Export: ▤ | Wrap Cell Content: 🅐

order_id	order_date	amount	product_name
15	2024-01-18	1200.00	Laptop
16	2024-02-02	350.00	Smartwatch
17	2024-02-21	450.00	Tablet
18	2024-03-05	1500.00	TV
19	2024-03-18	60.00	Mouse
20	2024-04-08	850.00	Laptop
21	2024-04-22	75.00	Keyboard
22	2024-05-03	999.99	Smartphone
23	2024-05-17	350.00	Smartwatch
24	2024-06-10	1200.00	Laptop
25	2024-06-25	75.00	Charger