

```
CREATE TABLE online_sales (
```

```
    order_id INT,
```

```
    order_date DATE,
```

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

```
    product_id INT
```

```
);
```

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

```
(1, '2023-01-15', 100.00, 101),
```

```
(2, '2023-01-20', 250.00, 102),
```

```
(3, '2023-02-10', 150.00, 103),
```

```
(4, '2023-02-18', 300.00, 104),
```

```
(5, '2023-03-05', 200.00, 105),
```

```
(6, '2023-03-25', 350.00, 106),
```

```
(7, '2023-04-10', 180.00, 107),
```

```
(8, '2023-04-20', 220.00, 108),
```

```
(9, '2023-05-11', 400.00, 109),
```

```
(10, '2023-05-15', 120.00, 110),
```

```
(11, '2023-06-01', 330.00, 111),
```

```
(12, '2023-06-18', 140.00, 112),
```

```
(13, '2023-07-05', 310.00, 113),
```

```
(14, '2023-07-25', 260.00, 114),
```

```
(15, '2023-08-10', 180.00, 115),
```

```
(16, '2023-08-30', 390.00, 116),
```

```
(17, '2023-09-12', 210.00, 117),
```

```
(18, '2023-09-28', 190.00, 118),
```

```
(19, '2023-10-02', 410.00, 119),  
(20, '2023-10-18', 370.00, 120),  
(21, '2023-11-03', 430.00, 121),  
(22, '2023-11-17', 280.00, 122),  
(23, '2023-12-05', 390.00, 123),  
(24, '2023-12-25', 460.00, 124),  
(25, '2024-01-05', 210.00, 125),  
(26, '2024-01-20', 190.00, 126),  
(27, '2024-02-14', 310.00, 127),  
(28, '2024-02-28', 290.00, 128),  
(29, '2024-03-11', 370.00, 129),  
(30, '2024-03-27', 360.00, 130);
```

```
SELECT
```

```
    YEAR(order_date) AS year,
```

```
    MONTH(order_date) AS month,
```

```
    SUM(amount) AS monthly_revenue,
```

```
    COUNT(DISTINCT order_id) AS order_volume
```

```
FROM
```

```
    online_sales
```

```
GROUP BY
```

```
    YEAR(order_date), MONTH(order_date)
```

```
ORDER BY
```

```
    year, month;
```

year	month	monthly_revenue	order_volume
2023	1	350.00	2
2023	2	450.00	2
2023	3	550.00	2
2023	4	400.00	2
2023	5	520.00	2
2023	6	470.00	2
2023	7	570.00	2
2023	8	570.00	2
2023	9	400.00	2
2023	10	780.00	2
2023	11	710.00	2
2023	12	850.00	2
2024	1	400.00	2
2024	2	600.00	2
2024	3	730.00	2

15 rows in set (0.05 sec)

SELECT

DATE_FORMAT(order_date, '%Y-%m') AS month,

SUM(amount) AS monthly_revenue

FROM

online_sales

GROUP BY

month

ORDER BY

monthly_revenue DESC

LIMIT 3;

month	monthly_revenue
2023-12	850.00
2023-10	780.00
2024-03	730.00

3 rows in set (0.01 sec)

Hints/Mini Guide: Use `EXTRACT(MONTH FROM order_date)` for month. b. c. d. e. f. `GROUP BY` year/month. Use `SUM()` for revenue. `COUNT(DISTINCT order_id)` for volume. Use `ORDER BY` for sorting. Limit results for specific time periods

```
mysql> SELECT
->     EXTRACT(MONTH FROM o
-> FROM
->     online_sales;
+-----+
| month |
+-----+
| 1     |
| 1     |
| 2     |
| 2     |
| 3     |
| 3     |
| 4     |
| 4     |
| 5     |
| 5     |
| 6     |
| 6     |
| 7     |
| 7     |
| 8     |
| 8     |
| 9     |
```

```
SELECT EXTRACT(MONTH FROM order_date) AS month FROM online_sales;
```

```
mysql> SELECT
->     YEAR(order_date) AS year,
->     MONTH(order_date) AS month,
->     SUM(amount) AS revenue
-> FROM
->     online_sales
-> GROUP BY
->     YEAR(order_date), MONTH(order_date)
+-----+-----+-----+
| year | month | revenue |
+-----+-----+-----+
| 2023 |     1 | 350.00 |
| 2023 |     2 | 450.00 |
| 2023 |     3 | 550.00 |
| 2023 |     4 | 400.00 |
| 2023 |     5 | 520.00 |
| 2023 |     6 | 470.00 |
| 2023 |     7 | 570.00 |
| 2023 |     8 | 570.00 |
| 2023 |     9 | 400.00 |
| 2023 |    10 | 780.00 |
| 2023 |    11 | 710.00 |
| 2023 |    12 | 850.00 |
| 2024 |     1 | 400.00 |
| 2024 |     2 | 600.00 |
| 2024 |     3 | 730.00 |
+-----+-----+-----+
15 rows in set (0.00 sec)
```

```
SELECT
    YEAR(order_date) AS year,
    MONTH(order_date) AS month,
    SUM(amount) AS monthly_revenue,
    COUNT(DISTINCT order_id) AS order_volume
FROM
    online_sales
WHERE
    order_date BETWEEN '2023-01-01' AND '2023-12-31'
GROUP BY
    YEAR(order_date), MONTH(order_date)
ORDER BY
    year, month;
```