

# OUTPUT

## 1. Monthly Revenue and Order volume : shows total sales and orders

```
mysql> SELECT
->     EXTRACT(YEAR FROM order_date) AS year,
->     EXTRACT(MONTH FROM order_date) AS month,
->     SUM(sales) AS total_revenue,
->     COUNT(DISTINCT order_id) AS order_volume
-> FROM
->     orders
-> GROUP BY
->     EXTRACT(YEAR FROM order_date),
->     EXTRACT(MONTH FROM order_date)
-> ORDER BY
->     year,
->     month;
```

year	month	total_revenue	order_volume
2023	1	1249.99	2
2023	2	30.00	1
2023	3	70.00	1
2023	4	400.00	2
2023	5	900.00	1
2023	6	900.00	2
2023	7	1200.00	2
2023	8	950.00	2
2023	9	780.00	2
2024	1	929.00	2
2024	2	85.00	2
2024	3	100.00	2
2024	4	528.00	3
2024	5	135.00	2
2024	6	130.00	2
2024	7	717.00	2
2024	8	232.00	2
2024	9	210.00	2
2024	10	35.00	1

19 rows in set (0.10 sec)

## 2. Top 3 months by total revenue

```
mysql> SELECT
->     YEAR(order_date) AS year,
->     MONTH(order_date) AS month,
->     SUM(sales) AS total_revenue
-> FROM orders
-> GROUP BY YEAR(order_date), MONTH(order_date)
-> ORDER BY total_revenue DESC
-> LIMIT 3;
```

year	month	total_revenue
2023	1	1249.99
2023	7	1200.00
2023	8	950.00

3 rows in set (0.06 sec)

# OUTPUT

3. Monthly Average order Value : Shows mcuh customers spend on orders per month

```
mysql> SELECT
->     YEAR(order_date) AS year,
->     MONTH(order_date) AS month,
->     SUM(sales) / COUNT(DISTINCT order_id) AS avg_order_value
-> FROM orders
-> GROUP BY YEAR(order_date), MONTH(order_date)
-> ORDER BY year, month;
```

year	month	avg_order_value
2023	1	624.995000
2023	2	30.000000
2023	3	70.000000
2023	4	200.000000
2023	5	900.000000
2023	6	450.000000
2023	7	600.000000
2023	8	475.000000
2023	9	390.000000
2024	1	464.500000
2024	2	42.500000
2024	3	50.000000
2024	4	176.000000
2024	5	67.500000
2024	6	65.000000
2024	7	350.500000
2024	8	116.000000
2024	9	105.000000
2024	10	35.000000

19 rows in set (0.02 sec)

4. Shows monthly sales growth

# OUTPUT

```
mysql> SELECT
->     YEAR(order_date) AS year,
->     MONTH(order_date) AS month,
->     SUM(sales) AS monthly_sales
-> FROM orders
-> GROUP BY YEAR(order_date), MONTH(order_date)
-> ORDER BY year, month;
```

year	month	monthly_sales
2023	1	1249.99
2023	2	36.00
2023	3	76.00
2023	4	400.00
2023	5	900.00
2023	6	900.00
2023	7	1200.00
2023	8	950.00
2023	9	780.00
2024	1	929.00
2024	2	85.00
2024	3	100.00
2024	4	528.00
2024	5	135.00
2024	6	130.00
2024	7	717.00
2024	8	232.00
2024	9	210.00
2024	10	35.00

19 rows in set (0.00 sec)

## 5.Tracks how shipping method performs over time

year	month	ship_mode	total_orders
2023	1	First Class	1
2023	1	Second Class	1
2023	2	Standard Class	1
2023	3	Second Class	1
2023	4	First Class	1
2023	4	Second Class	1
2023	5	First Class	1
2023	6	First Class	1
2023	6	Second Class	1
2023	7	First Class	2
2023	8	First Class	1
2023	8	Second Class	1
2023	9	First Class	1
2023	9	Standard Class	1
2024	1	First Class	1
2024	1	Second Class	1
2024	2	First Class	1
2024	2	Standard Class	1
2024	3	Second Class	1
2024	3	Standard Class	1
2024	4	First Class	1
2024	4	Same Day	1
2024	4	Standard Class	1
2024	5	Second Class	1
2024	5	Standard Class	1
2024	6	First Class	1
2024	6	Standard Class	1
2024	7	First Class	1
2024	7	Second Class	1
2024	8	Same Day	1
2024	8	Standard Class	1
2024	9	First Class	1
2024	9	Standard Class	1
2024	10	Second Class	1

34 rows in set (0.00 sec)

## OUTPUT