

## 📸 SCREENSHOT # 1

— Extract Month from order\_date

### # SOLUTION

```
SELECT
  order_date,
  EXTRACT(MONTH FROM
order_date) AS order_month
FROM orders;
```

order_date	order_month
2024-01-05	1
2024-01-18	1
2024-02-03	2
2024-02-20	2
2024-03-01	3
2024-03-22	3
2024-04-07	4
2024-04-25	4
2024-05-10	5
2024-05-28	5

## SCREENSHOT # 2

### — Group Data by Year and Month

#### # SOLUTION

```
SELECT
  EXTRACT(YEAR FROM order_date) AS order_year,
  EXTRACT(MONTH FROM order_date) AS order_month,
  COUNT(*) AS total_records
FROM orders
GROUP BY
  EXTRACT(YEAR FROM order_date),
  EXTRACT(MONTH FROM order_date);
```

order_year	order_month	total_records
2024	1	2
2024	2	2
2024	3	2
2024	4	2
2024	5	2



## SCREENSHOT # 3

### — Calculate Monthly Revenue

#### # SOLUTION

```
SELECT
  EXTRACT(YEAR FROM order_date) AS order_year,
  EXTRACT(MONTH FROM order_date) AS order_month,
  SUM(amount) AS monthly_revenue
FROM orders
GROUP BY
  EXTRACT(YEAR FROM order_date),
  EXTRACT(MONTH FROM order_date);
```

order_year	order_month	monthly_revenue
2024	1	4300.00
2024	2	5300.00
2024	3	5500.00
2024	4	7700.00
2024	5	6500.00



## SCREENSHOT # 4

### — Calculate Monthly Order Volume

#### # SOLUTION

```
SELECT
  EXTRACT(YEAR FROM order_date) AS order_year,
  EXTRACT(MONTH FROM order_date) AS order_month,
  COUNT(DISTINCT order_id) AS order_volume
FROM orders
GROUP BY
  EXTRACT(YEAR FROM order_date),
  EXTRACT(MONTH FROM order_date);
```

order_year	order_month	order_volume
2024	1	2
2024	2	2
2024	3	2
2024	4	2
2024	5	2

## SCREENSHOT # 5

### — Sort Results Using ORDER BY

## # SOLUTION

```
SELECT
  EXTRACT(YEAR FROM order_date) AS order_year,
  EXTRACT(MONTH FROM order_date) AS order_month,
  SUM(amount) AS monthly_revenue
FROM orders
GROUP BY
  EXTRACT(YEAR FROM order_date),
  EXTRACT(MONTH FROM order_date)
ORDER BY
  monthly_revenue DESC;
```

order_year	order_month	monthly_revenue
2024	4	7700.00
2024	5	6500.00
2024	3	5500.00
2024	2	5300.00
2024	1	4300.00



## SCREENSHOT # 6

### — Limit Results for Specific Time Periods

## # SOLUTION

```
SELECT
  EXTRACT(YEAR FROM order_date) AS order_year,
  EXTRACT(MONTH FROM order_date) AS order_month,
  SUM(amount) AS monthly_revenue
FROM orders
GROUP BY
  EXTRACT(YEAR FROM order_date),
  EXTRACT(MONTH FROM order_date)
ORDER BY
  monthly_revenue DESC
LIMIT 3;
```

order_year	order_month	monthly_revenue
2024	4	7700.00
2024	5	6500.00
2024	3	5500.00