



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