

# Code Glossary

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## Module 2: Data Analysis with SQL on a Single Table

- 1. To find the starting date of the orders from the dataset:**  

```
SELECT MIN(order_date) FROM orders;
```
- 2. To find the ending date of the orders from the dataset:**  

```
SELECT MAX(order_date) FROM orders;
```
- 3. To find the number of orders in the month of June from the dataset:**  

```
SELECT COUNT(Order_ID) FROM orders  
WHERE order_date >= '2022-06-01' AND order_date <= '2022-06-30';
```
- 4. To find the number of orders in a month using BETWEEN from the dataset:**  

```
SELECT COUNT(Order_ID) FROM orders  
WHERE order_date BETWEEN '2022-08-01' AND '2022-08-31';
```
- 5. To find the number total number of orders in each month using GROUP BY from the dataset and provide alias using AS:**  

```
SELECT MONTH(order_date) AS Order_Month, Count(order_id) as  
OrderQuantity  
FROM orders  
GROUP BY MONTH(order_date);
```
- 6. To find the number total number of orders in each month using GROUP BY from the dataset and sort it:**  

```
SELECT MONTH(order_date) AS Order_Month, COUNT(order_id) AS  
OrderQuantity  
FROM orders  
GROUP BY Order_Month  
ORDER BY OrderQuantity desc;
```
- 7. To find the total discount over the months from the dataset:**  

```
SELECT MONTH(order_date) as month, SUM(discount) as TotalDiscount,  
SUM(fina_price) AS TotalRevenue  
FROM orders  
GROUP BY month ORDER BY month;
```
- 8. To round of unwanted values after a decimal in a column using ROUND():**  

```
SELECT MONTH(order_date) as month, SUM(discount) as TotalDiscount,  
ROUND(SUM(fina_price),0) AS TotalRevenue
```

```
FROM orders
GROUP BY month ORDER BY month;
```

**9. To find the percentage change in discount over the months from the dataset:**

```
SELECT MONTH(order_date) as month, SUM(final_price) as TotalRevenue,
SUM(discount)/SUM(final_price) as Discount_Sales_Ratio SUM(discount) as
TotalDiscount, COUNT(order_id) as OrderCount
FROM orders
GROUP BY month ORDER BY month;
```

**10. To find the total revenue based on the day of the week from the dataset:**

```
SELECT DAYOFWEEK(order_date) as WDAY, SUM(final_price) AS
total_revenue, COUNT(order_id) AS order_count
FROM orders
GROUP BY WDAY order by WDAY;
```

**11. To find the total revenue based on the day of the week from the dataset using CASE statements:**

```
SELECT SUM(final_price) AS total_revenue, COUNT(order_id) AS order_count,
CASE
    WHEN DAYOFWEEK(order_date) = 1 THEN 'Weekend'
    WHEN DAYOFWEEK(order_date) = 7 THEN 'Weekend'
    ELSE 'Weekday'
END AS WeekDay
FROM orders
GROUP BY WeekDay;
```