SQL Queries for Delivery App Database

# App Performance:

## How much revenue does the app generate each month?

SELECT MONTHNAME(date) AS 'month',SUM(amount) AS 'TOTAL revenue' FROM orders

GROUP BY MONTHNAME(date)

ORDER BY MONTH(date);

## What is the app’s month-over-month revenue growth?

SELECT month,(((revenue - prev)/prev) \* 100) FROM

(

WITH sales AS

(

SELECT MONTHNAME(date) AS month,SUM(amount) AS revenue FROM orders

GROUP BY MONTHNAME(date)

ORDER BY MONTH(date)

)

SELECT month, revenue, LAG(revenue,1) OVER(ORDER BY revenue) AS prev FROM sales

) t;

# Restaurant Performance:

## Which restaurant has received the highest number of orders?

SELECT r.r\_name,COUNT(o.r\_id) AS no\_of\_orders FROM orders o

JOIN restaurants r ON o.r\_id = r.r\_id

GROUP BY r.r\_id

ORDER BY no\_of\_orders DESC

LIMIT 3;

## Which restaurant had the most orders in a given month?

SELECT r.r\_name,COUNT(o.r\_id) AS no\_of\_orders,MONTHNAME(date) AS month FROM orders o

JOIN restaurants r ON o.r\_id = r.r\_id

WHERE MONTHNAME(date) LIKE 'JUNE'

GROUP BY o.r\_id

ORDER BY no\_of\_orders DESC

LIMIT 1;

## Which restaurants generated monthly sales greater than 3,000 (or a specified threshold)?

SELECT r.r\_name,SUM(amount) AS total FROM orders o

JOIN restaurants r ON o.r\_id = r.r\_id

GROUP BY o.r\_id HAVING SUM(amount) > 3000;

# Customer Performance:

## Which customers have never placed an order?

SELECT user\_id, name FROM users

WHERE user\_id NOT IN (SELECT user\_id FROM orders);

## What is the favorite dish of a specific customer?

SELECT COUNT(f.f\_id) no\_of\_orders,f.f\_name,o.order\_id FROM orders o

JOIN order\_details od ON o.order\_id = od.order\_id

JOIN food f ON od.f\_id = f.f\_id

Where o.user\_id = 1

GROUP BY f.f\_name

ORDER BY no\_of\_orders DESC

LIMIT 1;

## What is each customer’s favorite dish?

WITH fav\_food AS

(

SELECT o.user\_id,f.f\_name,COUNT(o.user\_id) no\_orders FROM orders o

JOIN order\_details od ON o.order\_id = od.order\_id

JOIN food f ON od.f\_id = f.f\_id

GROUP BY o.user\_id,f.f\_id

ORDER BY no\_orders DESC

)

SELECT u.name,ff.f\_name,ff.no\_orders FROM fav\_food ff

JOIN users u ON ff.user\_id = u.user\_id

WHERE (ff.user\_id, ff.no\_orders) IN (

SELECT user\_id, MAX(no\_orders)

FROM fav\_food

GROUP BY user\_id

)

## Who are the most loyal customers for each restaurant?

WITH loyal\_customers AS

(

SELECT o.r\_id,o.user\_id,COUNT(\*) AS order\_count

FROM orders o

JOIN users u ON o.user\_id = u.user\_id

GROUP BY o.r\_id,o.user\_id

ORDER BY o.r\_id,order\_count DESC

)

SELECT r.r\_name,u.name,lc.order\_count

FROM loyal\_customers lc

JOIN users u ON lc.user\_id = u.user\_id

JOIN restaurants r ON lc.r\_id = r.r\_id

WHERE (lc.user\_id, lc.order\_count) IN ( SELECT user\_id, MAX(order\_count) FROM loyal\_customers GROUP BY user\_id)

AND order\_count > 1

ORDER BY order\_count DESC;

# Order Details:

## What is the average price of each dish?

SELECT f.f\_name,AVG(price) AS average\_price FROM menu m

JOIN food f ON m.f\_id = f.f\_id

GROUP BY f.f\_name;

## What are the order details for a specific customer within a given date range?

SELECT r.r\_name,COUNT(o.user\_id) AS no\_of\_customers FROM orders o

JOIN restaurants r ON o.r\_id = r.r\_id

GROUP BY o.r\_id

ORDER BY no\_of\_customers DESC

LIMIT 3;

## Show all orders with order details for a particular customer in a particular date range

SELECT \* FROM orders

WHERE user\_id = 1 AND date BETWEEN '2022-05-01' AND '2022-06-30';