Q1 return random rows

SELECT \* FROM users ORDER BY RAND() LIMIT 5

Q2 Find the null values

Ans - SELECT \* FROM orders WHERE restaurant\_rating IS NULL

Q3 find no of orders placed by each customer

Ans-

SELECT name , COUNT(\*) AS num\_orders FROM orders t1

JOIN

users t2

ON t1.user\_id = t2.user\_id

GROUP BY t1.user\_id ,name

Q4 find restaurants with the most number of menu items

Ans:

SELECT t1.r\_name , COUNT(\*) AS num\_menu FROM restaurants t1

JOIN

menu t2

ON t1.r\_id = t2.r\_id

GROUP BY t1.r\_id,r\_name

Q5 find number of votes and avg rating of all restaurants

Ans:

SELECT t2.r\_name , COUNT(\*) AS num\_votes , ROUND(AVG(restaurant\_rating),2) FROM orders t1

INNER JOIN

restaurants t2

ON t1.r\_id = t2.r\_id

WHERE t1.restaurant\_rating != ""

GROUP BY t1.r\_id , t2.r\_name

**Q6 find the food that is being sold at most number of restaurants**

Ans:

SELECT f\_name,COUNT(\*) FROM menu t1

JOIN food t2

ON t1.f\_id = t2.f\_id

GROUP BY t1.f\_id , f\_name

ORDER BY COUNT(\*) DESC LIMIT 1;

**Q7 find the restaurant with the highest revenue in the month of may**

SELECT r\_name , SUM(amount) AS 'revenue' FROM orders t1

JOIN

restaurants t2

ON t1.r\_id = t2.r\_id

WHERE MONTHNAME(DATE(date)) = 'May'

GROUP BY t1.r\_id , r\_name

ORDER BY revenue DESC LIMIT 1

Q7 Show order details of particular customer in a given date range

SELECT t1.order\_id , f\_name ,date FROM orders t1

JOIN

order\_details t2

ON t1.order\_id = t2.order\_id

JOIN

food t3

ON t2.f\_id = t3.f\_id

WHERE user\_id = 1 AND date BETWEEN '2022-05-15' AND '2022-06-15'

ORDER BY date

**Q8 Customer favourite food**

**Not solvable without subquery**

**Q9 Find restaurants that are veg**

SELECT r\_name FROM menu t1

JOIN food t2

ON t1.f\_id = t2.f\_id

JOIN restaurants t3

ON t1.r\_id = t3.r\_id

GROUP BY t1.r\_id

HAVING MIN(type) = 'Veg' AND MAX(type) = 'Veg';