**ZOMATO RESTAURANTS ANALYSIS**

**SQL QUERIES**

Easy

1. Update the date format and modify the column

UPDATE sheet1

SET Datekey\_Opening = REPLACE(Datekey\_Opening, '\_', '/') WHERE Datekey\_Opening LIKE '%\_%';

ALTER TABLE sheet1

MODIFY COLUMN Datekey\_Opening DATE;

View the updated table

SELECT \* FROM sheet1;

1. Count of Restaurants by Cuisine Type

SELECT

SUBSTRING\_INDEX(cuisines, ',', 1) AS cuisine\_type, COUNT(restaurantid) AS num\_restaurants

FROM

sheet1 GROUP BY

cuisine\_type;

1. Average Cost for Two People by Country

SELECT

sheet2.country\_name, AVG(Average\_Cost\_for\_two) AS avg\_cost\_for\_two

FROM

sheet1 INNER JOIN

sheet2 ON sheet1.country\_code = sheet2.countryid GROUP BY

sheet2.country\_name;

4. Percentage of Restaurants based on Has\_Online\_delivery

SELECT

has\_online\_delivery,

CONCAT(ROUND(COUNT(Has\_Online\_delivery) / (SELECT COUNT(\*) FROM sheet1) \* 100, 1), '%') AS percentage FROM

sheet1 GROUP BY

has\_online\_delivery;

5. Percentage of Restaurants based on Has\_Table\_booking

SELECT

has\_table\_booking,

CONCAT(ROUND(COUNT(has\_table\_booking) / (SELECT COUNT(\*) FROM sheet1) \* 100, 1), '%') AS percentage FROM

sheet1 GROUP BY

has\_table\_booking;

6. Top Cities by Number of Restaurants

SELECT

city,

COUNT(restaurantid) AS num\_restaurant

FROM

sheet1 GROUP BY

city ORDER BY

num\_restaurants DESC LIMIT 10;

7. Split cuisines into separate columns

SELECT

restaurantname, cuisines,

SUBSTRING\_INDEX(cuisines, ',', 1) AS cuisine1, SUBSTRING\_INDEX(SUBSTRING\_INDEX(cuisines, ',', 2), ',', -1) AS cuisine2, SUBSTRING\_INDEX(SUBSTRING\_INDEX(cuisines, ',', 3), ',', -1) AS cuisine3

FROM

sheet1;

Intermediate

1. Count of Restaurants based on City and Country

SELECT

sheet2.country\_name, sheet1.city,

COUNT(restaurantid) AS no\_of\_restaurants FROM

sheet1 INNER JOIN

sheet2 ON sheet1.country\_code = sheet2.countryid GROUP BY

sheet2.country\_name, sheet1.city;

2. Count of Restaurants based on Average Ratings

SELECT

CASE

WHEN rating <= 2 THEN '0-2'

WHEN rating <= 3 THEN '2-3'

WHEN rating <= 4 THEN '3-4'

WHEN rating <= 5 THEN '4-5'

END AS rating\_range, COUNT(restaurantid)

FROM

sheet1 GROUP BY

rating\_range ORDER BY

rating\_range;

3. Create buckets based on Average Price and count restaurants in each bucket

SELECT

CASE

WHEN price\_range = 1 THEN '0-500'

WHEN price\_range = 2 THEN '500-3000'

WHEN price\_range = 3 THEN '3000-10000'

WHEN price\_range = 4 THEN '>10000' END AS price\_range, COUNT(restaurantid)

FROM

sheet1 GROUP BY

price\_range ORDER BY

price\_range;

4. Highest-rating restaurants in each country

SELECT

country\_name, restaurantname,

MAX(rating) AS highest\_rating FROM

sheet1 INNER JOIN

sheet2 ON sheet1.country\_code = sheet2.countryid GROUP BY

sheet2.country\_name;

1. Top restaurant with the highest rating and votes from each country

SELECT

country\_name, restaurantname,

MAX(rating) AS highest\_rating, MAX(votes) AS max\_votes

FROM

sheet1 INNER JOIN

sheet2 ON sheet1.country\_code = sheet2.countryid GROUP BY

country\_name ORDER BY

max\_votes DESC LIMIT 5;

Advanced

1. Extract various date components

SELECT

YEAR(Datekey\_Opening) AS years,

MONTH(Datekey\_Opening) AS months, DAY(Datekey\_opening) AS day, MONTHNAME(Datekey\_Opening) AS monthname, QUARTER(Datekey\_Opening) AS quarter,

CONCAT(YEAR(Datekey\_Opening), '-', MONTHNAME(Datekey\_Opening)) AS yearmonth, WEEKDAY(Datekey\_Opening) AS weekday,

DAYNAME(Datekey\_opening) AS dayname, CASE

WHEN MONTHNAME(Datekey\_Opening) IN ('January', 'February', 'March') THEN 'Q1' WHEN MONTHNAME(Datekey\_Opening) IN ('April', 'May', 'June') THEN 'Q2'

WHEN MONTHNAME(Datekey\_Opening) IN ('July', 'August', 'September') THEN 'Q3' ELSE 'Q4'

END AS quarters, CASE

WHEN MONTHNAME(Datekey\_Opening) = 'January' THEN 'FM10' WHEN MONTHNAME(Datekey\_Opening) = 'February' THEN 'FM11' WHEN MONTHNAME(Datekey\_Opening) = 'March' THEN 'FM12' WHEN MONTHNAME(Datekey\_Opening) = 'April' THEN 'FM1' WHEN MONTHNAME(Datekey\_Opening) = 'May' THEN 'FM2' WHEN MONTHNAME(Datekey\_Opening) = 'June' THEN 'FM3' WHEN MONTHNAME(Datekey\_Opening) = 'July' THEN 'FM4' WHEN MONTHNAME(Datekey\_Opening) = 'August' THEN 'FM5'

WHEN MONTHNAME(Datekey\_Opening) = 'September' THEN 'FM6' WHEN MONTHNAME(Datekey\_Opening) = 'October' THEN 'FM7' WHEN MONTHNAME(Datekey\_Opening) = 'November' THEN 'FM8' WHEN MONTHNAME(Datekey\_Opening) = 'December' THEN 'FM9'

END AS Financial\_months, CASE

WHEN MONTHNAME(Datekey\_Opening) IN ('January', 'February', 'March') THEN 'Q4' WHEN MONTHNAME(Datekey\_Opening) IN ('April', 'May', 'June') THEN 'Q1'

WHEN MONTHNAME(Datekey\_Opening) IN ('July', 'August', 'September') THEN 'Q2' ELSE 'Q3'

END AS financial\_quarters FROM

sheet1;

1. Top 5 restaurants with the most number of votes

SELECT

country\_name, restaurantname, votes, Average\_Cost\_for\_two

FROM

sheet1 INNER JOIN

sheet2 ON sheet1.country\_code = sheet2.countryid GROUP BY

sheet2.country\_name, restaurantname, votes, Average\_Cost\_for\_two

ORDER BY

votes DESC LIMIT 5;

3. Numbers of Restaurants opening based on Year, Quarter, Month

SELECT

YEAR(Datekey\_Opening) AS year, QUARTER(Datekey\_Opening) AS quarter, MONTHNAME(Datekey\_Opening) AS monthname, COUNT(restaurantid) AS no\_of\_restaurants

FROM

sheet1 GROUP BY

YEAR(Datekey\_Opening), QUARTER(Datekey\_Opening), MONTHNAME(Datekey\_Opening)

ORDER BY

YEAR(Datekey\_Opening), QUARTER(Datekey\_Opening),

MONTHNAME(Datekey\_Opening);

1. Average Rating by Price Range

SELECT

CASE

WHEN price\_range = 1 THEN '0-500'

WHEN price\_range = 2 THEN '500-3000'

WHEN price\_range = 3 THEN '3000-10000'

WHEN price\_range = 4 THEN '>10000' END AS price\_range,

AVG(rating) AS avg\_rating FROM

sheet1 GROUP BY

price\_range ORDER BY

price\_range;