Module 2: SQL Tasks

Task 1

For a high-level overview of the hotels, provide us the top 5 most voted hotels in the delivery category.

SELECT name, votes, rating FROM zomato WHERE type = 'Delivery'
ORDER BY votes DESC, rating DESC LIMIT 5; **Result:**

name	votes ▾ 1	rating ▾ 2
Dr. Bubbles	99	4.2
Sizzling Pasto	99	4.1
Anand Sweets and Savouries	99	4
Behrouz Biryani	99	4
Kalpavruksha	99	3.9

Task 2

The rating of a hotel is a key identifier in determining a restaurant's performance. Hence for a particular location called Banashankari find out the top 5 highly rated hotels in the delivery category.

SELECT name, rating, location, type FROM zomato
WHERE location = 'Banashankari' AND type = 'Delivery'
ORDER BY rating DESC LIMIT 5; **Result:**

name	rating ▾ 1	location	type
Onesta	4.6	Banashankari	Delivery
Ayodhya Upachar	4.3	Banashankari	Delivery
Corner House Ice Cream	4.3	Banashankari	Delivery
Mojo Pizza - 2X Toppings	4.2	Banashankari	Delivery
Smacznego	4.2	Banashankari	Delivery

Task 3

Compare the ratings of the cheapest and most expensive hotels in Indiranagar.

SELECT MIN(CASE WHEN rating = 3.1 THEN rating END) AS rating1,
        MAX(CASE WHEN rating = 3.7 THEN rating END) AS rating2 FROM
Zomato WHERE location = 'Indiranagar' AND rating IN (3.1, 3.7)

OR
SELECT (SELECT rating FROM zomato WHERE location="indiranagar"
ORDER BY approx_cost LIMIT 5,1) AS rating1 ,(SELECT rating FROM
zomato WHERE location="indiranagar" ORDER BY approx_cost DESC
LIMIT 2,1) AS rating2;

Result:

rating1	rating2
3.1	3.7

Task 4

Online ordering of food has exponentially increased over time. Compare the total votes of restaurants that provide online ordering services and those that don't provide online ordering services.

SELECT online_order, SUM(votes) AS total_votes FROM zomato
GROUP BY online_order; **Result:**

online_order	total_votes
Yes	1385573
No	879446

Task 5

Number of votes defines how much the customers are involved with the service provided by the restaurants For each Restaurant type, find out the number of restaurants, total votes, and average rating. Display the data with the highest votes on the top(if the first row of output is NA display the remaining rows)

SELECT type, COUNT(*) AS number_of_restaurants, SUM(votes) AS total_votes,
AVG(rating) AS avg_rating
FROM zomato
WHERE type IS NOT NULL AND type <> 'NA'
GROUP BY type
ORDER BY total_votes DESC, number_of_restaurants DESC, type ASC;

Result:

type ▲ 3	number_of_restaurants ▼ 2	total_votes ▼ 1	avg_rating
Delivery	5955	697876	3.2747103274559253
Dine-out	2162	545242	3.4086956521739085
Buffet	155	60884	3.652903225806451
Desserts	485	55675	3.446185567010313
Cafes	357	50666	3.3369747899159674
Drinks & nightlife	24	16017	3.5625
Pubs and bars	16	9877	3.9374999999999996

Task 6

What is the most liked dish of the most-voted restaurant on Zomato(as the restaurant has a tie-up with Zomato, the restaurant compulsorily provides online ordering and delivery facilities.

SELECT name, dish_liked, MAX(rating) AS rating, MAX(votes) AS votes
FROM zomato where type='Delivery' and online_order='yes'
GROUP BY name, online_order, type, dish_liked
ORDER BY rating DESC, votes DESC
LIMIT 1;

Result:

name	dish_liked	rating	votes
Galito's	Garlic Bread, Peri Peri Chicken, Burgers, Chicken ...	4.6	595

Task 7

To increase the maximum profit, Zomato is in need to expand its business. For doing so Zomato wants the list of the top 15 restaurants which have min 150 votes, have a rating greater than 3, and is currently not providing online ordering. Display the restaurants with the highest votes on the top.

SELECT name, rating, votes, online_order FROM zomato
WHERE online_order = 'No' AND rating > 3 AND votes >= 150
ORDER BY votes DESC LIMIT 15;

Result:

name	rating	votes ⌄ 1	online_order
Chapter One Bar | Maiin	4.2	997	No
Khawa Karpo	4.3	996	No
Bottle & Glass	4	988	No
Rim Naam - The Oberoi	4.6	988	No
Sly Granny - The Community House	4.5	980	No
Jcubez	3.8	977	No
Nagarjuna	4.2	970	No
1522 - The Pub	4.3	969	No
Feast - Sheraton Grand Bangalore Hotel at Brigade....	4.3	968	No
Public - The Rooftop Bar And Kitchen	4.3	966	No
BTDT? Been There Done That	4.3	962	No
Nandhana Palace	4.2	957	No
Guzzlers Inn	3.9	952	No
Nagarjuna Chimney	4	950	No
Natural Ice Cream	4.6	945	No