ZOMATO DATA ANALYSIS

```
Use zomato;
-- To View all the data in the table
select * from zomatodata;
```

```
describe zomatodata;
```

Field	Type
RestaurantID	int
RestaurantName	text
City	text
Address	text
Locality	text
Longitude	double
Latitude	double
Cuisines	text
Has_Table_booking	text
Has_Online_delivery	text
Is_delivering_now	text
Switch_to_order_menu	text
Price_range	int
Votes	int
Average_Cost_for_two	int
Rating	double

```
-- Business Problems


-- 1.Identify the top 3 cities with restaurants
having the least ratings,count the number of
restaurants in each city and order by number of
restaurants


SELECT City,COUNT(RestaurantName) AS Restaurant_Count
,Rating
FROM zomatodata
WHERE Rating = (SELECT MIN(Rating) FROM zomatodata)
GROUP BY City
ORDER BY Restaurant_Count DESC
LIMIT 3;
```

City	Restaurant_Count	Rating
New Delhi	1425	1
Noida	384	1
Gurgaon	228	1

```
-- 2.Find the top 3 restaurants in Kolkata which
provides online delivery


SELECT RestaurantName,Rating
FROM zomatodata
WHERE City = "Kolkata" AND Has_Online_delivery =
"Yes"
ORDER BY Rating Desc
LIMIT 3;
```

RestaurantName	Rating
Asia Kitchen by Mainland China	4.6
India Restaurant	4.6
6 Ballygunge Place	4.4

```
-- 3. Find the best rated restaurant for pizza in New
Delhi


SELECT RestaurantName,Rating
FROM zomatodata
WHERE City = "New Delhi" AND Cuisines LIKE "%Pizza%"
ORDER BY Rating Desc
LIMIT 1;
```

RestaurantName	Rating
Owl is Well	4.5

```
-- 4. Select top 5 cities with most restaurants
linked with zomato


SELECT City,COUNT(RestaurantName) AS Restaurant_Count
FROM zomatodata
GROUP BY City
ORDER BY Restaurant_Count DESC
LIMIT 5;
```

City	Restaurant_Count
New Delhi	5473
Gurgaon	1118
Noida	1080
Faridabad	251
Ghaziabad	25

```
-- 5.Enlist most affordable and highly rated
restaurants city wise


SELECT City, RestaurantName, Rating,
Average_Cost_for_two
FROM zomatodata
WHERE Average_Cost_for_two = (SELECT
MIN(Average_Cost_for_two) FROM zomatodata)
AND Rating = (SELECT MAX(Rating) FROM zomatodata )
ORDER BY City;
```

City	RestaurantName	Rating	Average_Cost_for_two
Agra	Sheroes Hangout	4.9	0

-- 6.What is the average rating of restaurants in each city?

```
SELECT City, ROUND(AVG(Rating),1) as Average_Rating
FROM zomatodata
GROUP BY City;
```

City	Average_Rating
Agra	4
Ahmedabad	4.2
Allahabad	3.4
Amritsar	3.7
Aurangabad	3.4
Bangalore	4.4
Bhopal	4
Bhubaneshwar	4
Chandigarh	4
Chennai	4.3
Coimbatore	4.1
Dehradun	4
Faridabad	2.3
Ghaziabad	2.9
Goa	4.2
Gurgaon	2.9
Guwahati	4.2
Hyderabad	4.3
Indore	4
Jaipur	4.1
Kanpur	3.8
Kochi	4.1
Kolkata	4.3
Lucknow	4.2
Ludhiana	4
Mangalore	3.7
Mohali	4.3
Mumbai	4.1
Mysore	3.7
Nagpur	4
Nashik	3.5
New Delhi	2.7
Noida	2.4
Panchkula	4.2
Patna	3.5
Puducherry	3.7
Pune	4.2
Ranchi	3.5
Secunderabad	4.5
Surat	3.9
Vadodara	4
Varanasi	3.5
Vizag	4

```
-- 7.Which cities have the highest number of
restaurants with online delivery?


SELECT City, COUNT(*) as Online_Delivery_Count
FROM zomatodata
WHERE Has_Online_delivery = 'Yes'
GROUP BY City
ORDER BY Online_Delivery_Count DESC;
```

City	Online_Delivery_Count
New Delhi	1489
Gurgaon	425
Noida	364
Faridabad	35
Chennai	13
Ahmedabad	11
Ghaziabad	10
Jaipur	10
Nagpur	10
Kolkata	8
Bangalore	7
Coimbatore	7
Hyderabad	7
Mumbai	7
Pune	7
Chandigarh	6
Kochi	5
Mohali	1
Secunderabad	1

```
-- 8.Generate a report that shows the top-rated
restaurants in each city:


SELECT City, RestaurantName, MAX(Rating) as
Top_Rating

FROM zomatodata

GROUP BY City;
```

City	RestaurantName	Top_Rating
Agra	Jahanpanah	4.9
Ahmedabad	650 - The Global Kitchen	4.6
Allahabad	Aryan Family's Delight	3.7
Amritsar	Makhan Fish and Chicken Co	4.1
Aurangabad	Kream N Krunch	3.7
Bangalore	Sultans of Spice	4.8
Bhopal	Black N White Cafe	4.9
Bhubaneshw	Tyre Patty	4.6
Chandigarh	The Night Factory	4.5
Chennai	That Madras Place	4.9
Coimbatore	Kuchi n Kream	4.9
Dehradun	The Punjabi Essence Restau	4.9
Faridabad	Desire Foods	4.5
Ghaziabad	Chaudhary Ke Mashhoor Para	3.9
Goa	Baba Au Rhum	4.8
Gurgaon	K Lab	4.9
Guwahati	Mocha	4.9
Hyderabad	Exotica	4.9
Indore	KYRO	4.3
Jaipur	Tapri Central	4.9
Kanpur	Hucka	4.3
Kochi	Nawras Seafood Restaurant	4.6
Kolkata	Asia Kitchen by Mainland Chi	4.9
Lucknow	Grandson of Tunday Kababi	4.9
Ludhiana	Basant Restaurant	4.6
Mangalore	#45	4.2
Mohali	The Shooters Cafe	4.3
Mumbai	Joey's Pizza	4.9
Mysore	Hotel RRR Mysore	4.2
Nagpur	House of Caffeine	4.9
Nashik	Divtya Budhlya Wada Restau	3.9
New Delhi	Food Cloud	4.9
Noida	Ali Baba Caves	4.5
Panchkula	Hops n Grains	4.2
Patna	Genuine Broaster Chicken	3.7
Puducherry	Auroville Bakery	4.2
Pune	The Urban Foundry	4.8
Ranchi	Hot Lips	4
Secunderaba	Saffron Mantra	4.6
Surat	Level 5 - Terrace Restro & Caf	4.3
Vadodara	22nd Parallel	4.6
Varanasi	Open Hand Shop & Cafe	4.1
Vizag	Pizza Hut	4.9

```
-- 9.What is the average rating of restaurants that
offer online delivery?


SELECT City,ROUND(AVG(Rating),1) as Average_Rating
FROM zomatodata
WHERE Has_Online_delivery = 'Yes'
GROUP BY City;
```

City	Average_Rating
Ahmedabad	4.2
Bangalore	4.4
Chandigarh	4
Chennai	4.3
Coimbatore	4.1
Faridabad	3.1
Ghaziabad	3.2
Gurgaon	3.3
Hyderabad	4.3
Jaipur	4.3
Kochi	4.1
Kolkata	4.2
Mohali	4.3
Mumbai	4.2
Nagpur	3.9
New Delhi	3.3
Noida	3
Pune	4.2
Secunderabad	4.4

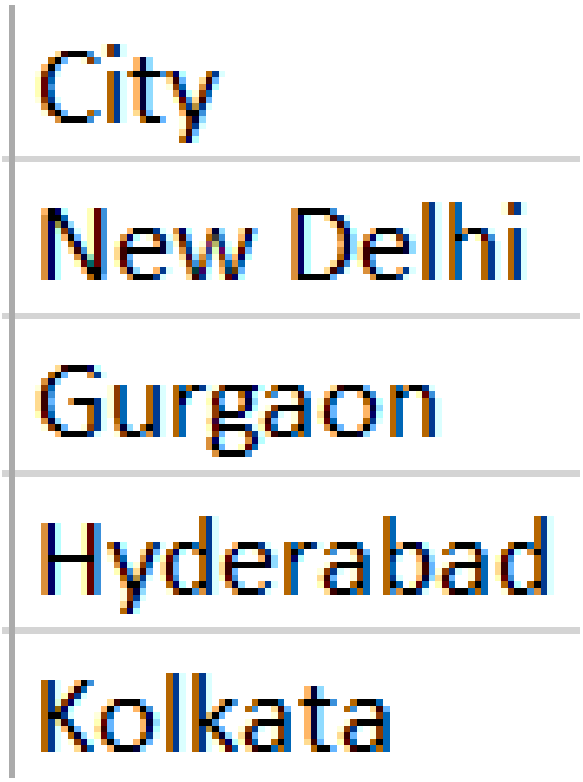
```
-- 10.Which cities have the most restaurants with
table booking?


SELECT City, COUNT(*) as Table_Booking_Count
FROM zomatodata
WHERE Has_Table_booking = 'Yes'
GROUP BY City
ORDER BY Table_Booking_Count DESC;
```

City	Table_Booking_Count
New Delhi	715
Gurgaon	204
Noida	112
Faridabad	15
Chennai	13
Pune	13
Hyderabad	10
Kolkata	9
Mumbai	9
Bangalore	6
Ghaziabad	3
Secunderabad	2

-- 11.Identify cities which have atleast 3 restaurants with ratings >= 4.8 and incase of two cities with same result sort them in alphabetical order

```
SELECT City
FROM zomatodata
WHERE Rating >= 4.8
GROUP BY City
HAVING COUNT(*) >= 3
ORDER BY COUNT(*) DESC, City;
```



City
New Delhi
Gurgaon
Hyderabad
Kolkata

```
-- 12.Group the restaurants based on the average cost
for two into: Very
expensive,expensive,high,medium,average.Then find the
number of restaurants in each category


SELECT
    CASE
        WHEN Average_Cost_for_two > 2000 THEN 'Very
expensive'
        WHEN Average_Cost_for_two > 1500 THEN
'Expensive'
        WHEN Average_Cost_for_two > 1000 THEN 'High'
        WHEN Average_Cost_for_two > 500 THEN 'Medium'
        ELSE 'Average'
    END as Cost_Category,
    COUNT(*) as Restaurant_Count
FROM zomatodata
GROUP BY Cost_Category
ORDER BY Restaurant_Count ;
```

Cost_Category	Restaurant_Count
Very expensive	223
Expensive	317
High	582
Medium	2282
Average	5248