

zomato

Data Analysis using SQL



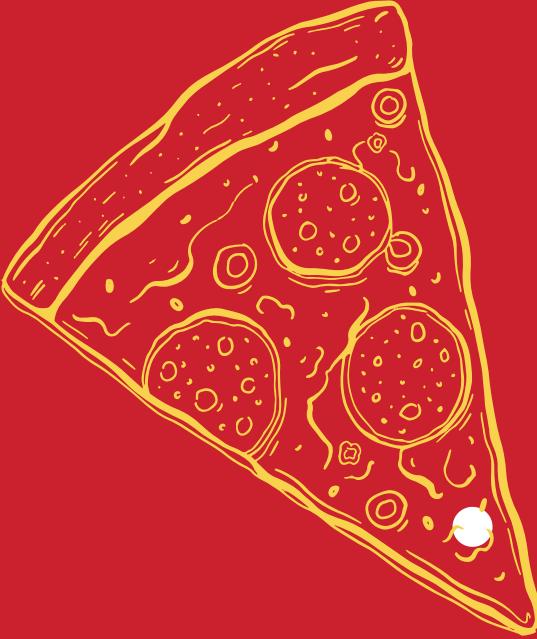
By Aditi Shetti



About Zomato

Zomato is a leading online food delivery service and restaurant discovery platform. The platform allows users to order food online, discover new restaurants, read and write reviews, view menus, and even make table reservations.

The zomato dataset gives us an overview of the restaurant, cities,cusines ,ratings, famous foods,etc.



Objective of the project

To explore and analyze the Zomato restaurant dataset, focusing on key metrics like customer ratings, cuisine popularity, and geographic distribution of restaurants.

. The analysis will utilize columns such as ‘RESTAURANT_NAME’, ‘CITY’, ‘AREA’, ‘RATING’, ‘RATING_COUNT’, ‘CUSINE’, ‘COST_FOR_TWO’, ‘ADDRESS’, ‘ONLINE_ORDER’, ‘TABLE_RESERVATION’, and ‘FAMOUS_FOOD’.



CREATE AND USE THE DATABASE

```
create database zomato
```

```
use zomato
```



Create a table named zomato

```
create table zomato(restaurant varchar(100) not null primary key,  
city varchar(20) not null,  
area varchar (50), rating decimal (2,1) ,  
rating_count int ,cuisine varchar (30),  
cost_for_two int , address varchar (100),  
online_order varchar (15),table_reservation char (15) ,  
famous_food varchar(100));
```



Table: zomato

Columns:

<u>restaurant</u>	varchar(100) PK
city	varchar(20)
area	varchar(50)
rating	decimal(2,1)
rating_count	int(11)
cuisine	varchar(30)
cost_for_two	int(11)
address	varchar(100)
online_order	varchar(15)
table_reservation	char(15)
famous_food	varchar(100)

DESCRIBE THE TABLE

describe zomato

Field	Type	Null	Key	Default
restaurant	varchar(100)	NO	PRI	NULL
city	varchar(20)	NO		NULL
area	varchar(50)	YES		NULL
rating	decimal(2,1)	YES		NULL
rating_count	int(11)	YES		NULL
cuisine	varchar(30)	YES		NULL
cost_for_two	int(11)	YES		NULL
address	varchar(100)	YES		NULL
online_order	varchar(15)	YES		NULL
table_reservation	char(15)	YES		NULL
famous_food	varchar(100)	YES		NULL



Retrieve all records and columns from a table in the database

select* from zomato

restaurant	city	area	rating	rating_count	cuisine	cost_for_two	address	online_order	table_reservation	famous_food
Aggarwal Cake Village	Delhi NCR	Uttam Nagar	3.4	21	Bakery, Fast Food	200	F-2/20, Mohan Garden, Pipal Wala Road, Uttam...	Online-Order	No-Reservation	-
AIR- An Ivory Region	Delhi NCR	Punjabi Bagh	4.2	2713	North Indian, Chinese, Contine	1400	1/83, Third Floor, Club Road, West Punjabi Bag...	Offline- Order	Reservation	Pizza , Chicken
Anand Special Nasta	Delhi NCR	Uttam Nagar	0.0	0	North Indian	250	B 19, Som Bazar Road, Rajapuri, Uttam Nagar, ...	Offline- Order	No-Reservation	-
Applemint	Mumbai	Kharghar	3.5	94	Chinese	200	Shop 32, Hiranandani Crystal Plaza, Sector 7, K...	Online-Order	No-Reservation	Momos , Liti C
Ayub's	Mumbai	Fort	3.9	1376	Rolls, North Indian, Mughlai,	400	43, Dr VB Gandhi Marg, Fort, Mumbai	Offline- Order	No-Reservation	Rolls , Beda F
Biryani & Kormas	Delhi NCR	Sector 43, Faridabad	3.3	40	Biryani	500	B 116, Basement, Greenfield Colony, Sector 43,...	Online-Order	No-Reservation	-
Biryani 99	Delhi NCR	Indirapuram	2.8	14	North Indian, Biryani	200	195, Jaipuria Sunrise Plaza, Indirapuram, Ghazi...	Online-Order	No-Reservation	-
Black Paper	Delhi NCR	Sector 34, Noida	2.8	6	North Indian, Chinese	600	Shop 5, 1st Floor, A block Market, Opposite Ma...	Online-Order	No-Reservation	-
Bombay's Royal China	Delhi NCR	Prashant Vihar	3.4	42	Chinese, Fast Food, Momos	600	Shop 76, DDA Market, Prashant Vihar, New Delhi	Online-Order	No-Reservation	-
Brij Palace Restaurant	Delhi NCR	Jasola	0.0	0	North Indian	250	4, Okhla Bus Stand, Jamia Nagar, Near, Jasola,...	Offline- Order	No-Reservation	Chana Masala
Brijwasi Sweets	Mumbai	Vile Parle East	3.5	23	Mithai	600	17, Narottam Niwas, Nehru Road, Vile Parle Eas...	Offline- Order	No-Reservation	-
Bunty Fast Food Centre	Kolkata	Behala	0.0	0	Fast Food	150	117, Vidya Sagar Sarani, Near Behala, Kolkata	Online-Order	No-Reservation	-
Caesar's Kitchen	Delhi NCR	Sector 38, Noida	3.6	28	Continental, Chinese	800	3rd Floor , The Great India Place, Sector 38, Noida	Offline- Order	No-Reservation	-
Capri Chef Cart	Delhi NCR	Vikasouri	3.8	503	Chinese	450	Near Oxford School. F Block. Vikasouri. New Delhi	Online-Order	No-Reservation	Momos . Ch



Q1 . HOW MANY RESTAURANTS ARE PRESENT IN THE DATASET?

```
select count(distinct restaurant)as total_restaurants  
from zomato
```

total_restaurants
81



Q2. WHICH CITIES ARE PRESENT IN THE DATASET?

```
select distinct city from zomato;
```

	city
▶	Delhi NCR
	Mumbai
	Kolkata



Q3. FIND TOP 10 RESTAURANTS WITH HIGHEST AVG RATING

```
select restaurant,city, round(avg(rating),1)as highest_avg_rating from zomato  
group by restaurant,city order by highest_avg_rating desc limit 10
```

restaurant	city	highest_avg_rating
EggOMogo	Mumbai	4.7
Curry And Combos Twist	Mumbai	4.4
eat.fit	Delhi NCR	4.3
AIR- An Ivory Region	Delhi NCR	4.2
Cookie Man	Kolkata	4.1
Where's My Cone?	Mumbai	4.1
Chakdhna : Beyond Peanuts	Delhi NCR	4.0
Ayub's	Mumbai	3.9
Coffee House	Mumbai	3.9
Deseez	Delhi NCR	3.9



Q4. WHAT IS THE AVERAGE COST FOR TWO PEOPLE?

```
select avg(cost_for_two) as avg_cost from zomato
```



	avg_cost
▶	397.5309

Q5. WHICH RESTAURANTS OFFER TABLE RESERVATION?

```
select restaurant,city,cost_for_two,table_reservation  
from zomato where table_reservation='reservation'
```

restaurant	city	cost_for_two	table_reservation
AIR- An Ivory Region	Delhi NCR	1400	Reservation
Coffee House	Mumbai	350	Reservation



Q6. WHAT IS THE MAXIMUM COST FOR TWO PEOPLE?

```
select max(cost_for_two) as max_cost from zomato
```

Result Grid	
	max_cost
▶	2000



Q7. IDENTIFY THE TOP-RATED RESTAURANTS THAT OFFER ONLINE ORDERING IN EACH CITY.

```
select city,restaurant,area,cost_for_two,rating,online_order  
from zomato where online_order='Online-Order' and rating>=3.7  
order by city desc
```

city	restaurant	area	cost_for_two	rating	online_order
Mumbai	Where's My Cone?	Pali Hill, Bandra West	250	4.1	Online-Order
Mumbai	EggOMogo	Castle Mill, Thane West	300	4.7	Online-Order
Mumbai	Coffee House	Fort	350	3.9	Online-Order
Mumbai	Curry And Combos Twist	Goregaon East	550	4.4	Online-Order
Kolkata	The 6 Russel Street	Chowringhee	300	3.7	Online-Order
Kolkata	Cookie Man	Prince Anwar Shah Road	400	4.1	Online-Order
Delhi NCR	Swad Food & Caterers	Janakpuri	200	3.8	Online-Order
Delhi NCR	Rubaab Restaurant	Gamma 1	600	3.7	Online-Order
Delhi NCR	Welcome Chicken Corner	East of Kailash	850	3.8	Online-Order
Delhi NCR	Pizza Tree	Sector 51, Noida	300	3.7	Online-Order
Delhi NCR	Pizza Galleria	Gaur City 2	400	3.7	Online-Order
Delhi NCR	Kadimi Sweets	Jangpura	250	3.8	Online-Order
Delhi NCR	Food Fantasy	Mayur Vihar Phase 1	500	3.8	Online-Order
Delhi NCR	eat.fit	MG Road, Gurgaon	500	4.3	Online-Order
Delhi NCR	Domino's Pizza	Sector 18, Noida	400	3.9	Online-Order
Delhi NCR	Deseez	Sector 39, Gurgaon	700	3.9	Online-Order
Delhi NCR	Chakkhna : Beyond Pea...	Sector 49	650	4.0	Online-Order
Delhi NCR	Capri Chef Cart	Vikaspuri	450	3.8	Online-Order



Q8. RESTAURANTS IN MUMBAI WITH OFFLINE ORDERS AND RATING ABOVE 3.5

```
select* from zomato where rating>=3.5 and city='Mumbai' and
online_order='Offline- Order' order by rating desc
```

restaurant	city	area	rating	rating_count	cuisine	cost_for_two	address
Ayub's	Mumbai	Fort	3.9	1376	Rolls, North Indian, Mughlai,	400	43, Dr VB Gant
M's Kitchen	Mumbai	Vashi	3.8	286	Pizza, Talienska, DÃ...Â¾fÃºsy	0	Plot 201, Secto
Tirupati Dosa Centre	Mumbai	7 Bungalows, Andheri West	3.8	71	South Indian, Fast Food	300	Opposite Police
Rashmin The Mithai Shop	Mumbai	Malad East	3.8	43	Mithai, Street Food	200	Dr. Suchak Ch
Kachhomal Sweets	Mumbai	Ulhasnagar	3.7	52	Mithai	200	Shop 130-131,
Kunal's Creamery & Eatery	Mumbai	Ambernath	3.6	51	Street Food, Chinese, Fast Foo	500	Shop 14, Trish
Brijwasi Sweets	Mumbai	Vile Parle East	3.5	23	Mithai	600	17, Narottam I



Q9. WHICH AREAS OFFER THE MOST AFFORDABLE DINING OPTIONS BASED ON THE AVERAGE COST FOR TWO?

```
select city,restaurant,area,cost_for_two from zomato  
where cost_for_two <=400 order by city desc,cost_for_two asc
```

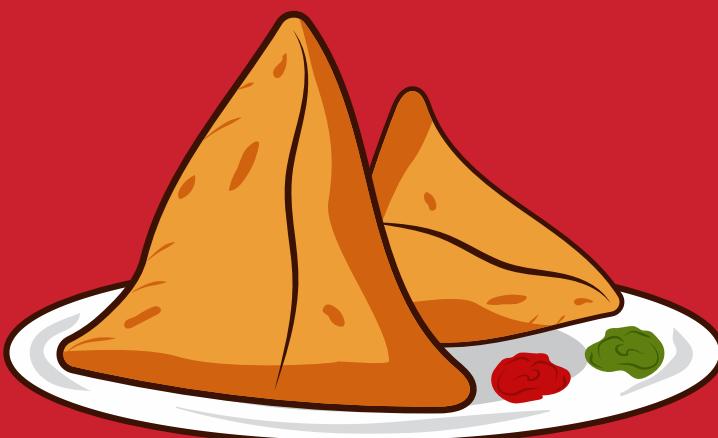
city	restaurant	area	cost_for_two
Delhi NCR	Jai Shree Ram Sweets	Sector 14, Gurgaon	100
Delhi NCR	Rehdiwalaa.com	Sector 53, Gurgaon	100
Kolkata	Bunty Fast Food Centre	Behala	150
Delhi NCR	King's Shawarma	Raj Nagar	150
Kolkata	M/S Binode Behari Nag Ganesh Chandra Dutta	Dalhousie BBD Bagh	150
Delhi NCR	Friend Z Cafe	Rohini	150
Delhi NCR	Manish Indian & Chinese Food Corner	Mahipalpur	200
Delhi NCR	Punjabi Factory	Rohini	200
Delhi NCR	Red Chilli Hub	Tughlakabad Institutional Area	200
Delhi NCR	Shree Radhey Shyam Dhaba	Mahipalpur	200
Mumbai	Kachhomal Sweets	Ulhasnagar	200
Mumbai	Rashmin The Mithai Shop	Malad East	200
Delhi NCR	Swad Food & Caterers	Janakpuri	200
Delhi NCR	Maa Sheetla Sweets & Caterers	Sector 14, Gurgaon	200
Delhi NCR	Biryani 99	Indirapuram	200
Kolkata	Crispy Masala Chicken	Baguihati	200
Kolkata	D'Brata Biryani	Kalyani	200



Q10. IDENTIFY THE MOST COMMON CUISINE

```
select cuisine, count(*) as common_cuisine from zomato  
group by cuisine order by common_cuisine desc limit 1
```

cuisine	common_cuisine
North Indian	9



Q11. WHICH CITY OFFERS THE MOST DIVERSE RANGE OF CUISINES? AND WHAT ARE THOSE CUISINES?

```
select city, count(cuisine) as cuisine_count from zomato  
group by city order by cuisine_count desc limit 1
```

city	cuisine_count
Delhi NCR	56

```
select city, group_concat(distinct cuisine order by cuisine)  
from zomato where city='Delhi NCR'
```

city	group_concat(distinct cuisine order by cuisine)
Delhi NCR	Bakery, Desserts, South Indian,Bakery, Fast Fo...



Q12. SEARCH A SPECIFIC TYPE OF FAMOUS FOOD

a.Chinese

```
select restaurant,cusine from zomato  
where cusine like '%Chinese%'
```

restaurant	cusine
AIR- An Ivory Region	North Indian, Chinese, Contine
Applemint	Chinese
Black Paper	North Indian, Chinese
Bombay's Royal China	Chinese, Fast Food, Momos
Caesar's Kitchen	Continental, Chinese
Capri Chef Cart	Chinese
Chinese Express	Chinese, Fast Food
Curry And Combos Twist	North Indian, Chinese, Fast Fo
Dunlop Hotel and Restaurant	North Indian, Mughlai, Chinese
Food Fantasy	North Indian, Chinese, Fast Fo
Food Swag	Rolls, Chinese, Fast Food, Sal
Foodee Hub	Chinese, North Indian

b.Continental

```
select restaurant,cusine from zomato  
where cusine like '%Continental%'
```

restaurant	cusine
Caesar's Kitchen	Continental, Chinese
Chunky's	Italian, Pizza, Continental
Pizza Tree	Continental, Fast Food, Desser
The Bunk House	Italian, Continental, North In
HULL	HULL



Q13. COMPARE AVERAGE DINING COSTS ACROSS CITIES

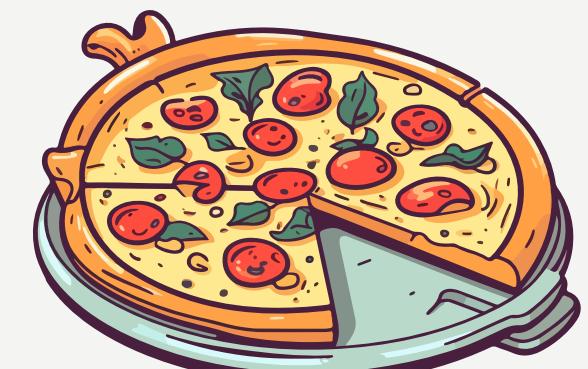
```
select round(avg(cost_for_two),0) as avg_cost_mum from zomato where city='Mumbai'  
select round(avg(cost_for_two),0) as avg_cost_del from zomato where city='Delhi NCR'  
select round(avg(cost_for_two),0) as avg_cost_kol from zomato where city='Kolkata'
```

	avg_cost_mum
▶	350

	avg_cost_del
▶	421

	avg_cost_kol
▶	365

The highest average dining cost is in Delhi NCR



Q14. WHICH RESTAURANTS HAVE RECEIVED THE MOST NUMBER OF RATINGS ?

```
select restaurant,area,city,rating_count  
from zomato order by rating_count desc limit 10
```

restaurant	area	city	rating_count
AIR- An Ivory Region	Punjabi Bagh	Delhi NCR	2713
Domino's Pizza	Sector 18, Noida	Delhi NCR	1428
Ayub's	Fort	Mumbai	1376
eat.fit	MG Road, Gurgaon	Delhi NCR	820
Dunlop Hotel and Restaurant	Baranagar	Kolkata	792
Chakkhna : Beyond Peanuts	Sector 49	Delhi NCR	690
Rubaab Restaurant	Gamma 1	Delhi NCR	503
Capri Chef Cart	Vikaspuri	Delhi NCR	503
Food Fantasy	Mayur Vihar Phase 1	Delhi NCR	437
Swad Food & Caterers	Janakpuri	Delhi NCR	379



Q15. HIDDEN GEMS: RESTAURANT WITH LESS RATING COUNT BUT HIGH RATING

```
select restaurant,area,city,rating,rating_count from zomato  
where rating>=3.7 order by rating desc,rating_count asc limit 10
```

restaurant	area	city	rating	rating_count
EggOMogo	Castle Mill, Thane West	Mumbai	4.7	76
Curry And Combos Twist	Goregaon East	Mumbai	4.4	92
eat.fit	MG Road, Gurgaon	Delhi NCR	4.3	820
AIR- An Ivory Region	Punjabi Bagh	Delhi NCR	4.2	2713
Cookie Man	Prince Anwar Shah Road	Kolkata	4.1	322
Where's My Cone?	Pali Hill, Bandra West	Mumbai	4.1	336
Chakkhna : Beyond Peanuts	Sector 49	Delhi NCR	4.0	690
Coffee House	Fort	Mumbai	3.9	104
Deseez	Sector 39, Gurgaon	Delhi NCR	3.9	273
Ayub's	Fort	Mumbai	3.9	1376



Q16. AREAS WITH THE BEST VALUE FOR MONEY: TOP 10 BEST-RATED DINING FOR THE LEAST AMOUNT OF MONEY?

```
select restaurant,area,city,rating,cost_for_two from zomato  
order by rating desc,cost_for_two asc limit 10
```

restaurant	area	city	rating	cost_for_two
EggOMogo	Castle Mill, Thane West	Mumbai	4.7	300
Curry And Combos Twist	Goregaon East	Mumbai	4.4	550
eat.fit	MG Road, Gurgaon	Delhi NCR	4.3	500
AIR- An Ivory Region	Punjabi Bagh	Delhi NCR	4.2	1400
Where's My Cone?	Pali Hill, Bandra West	Mumbai	4.1	250
Cookie Man	Prince Anwar Shah Road	Kolkata	4.1	400
Chakkhna : Beyond Peanuts	Sector 49	Delhi NCR	4.0	650
Coffee House	Fort	Mumbai	3.9	350
Ayub's	Fort	Mumbai	3.9	400
Domino's Pizza	Sector 18, Noida	Delhi NCR	3.9	400



Q17. WHAT IS THE DISTRIBUTION OF RESTAURANT RATING ?

```
select city,rating,count(*)as rating_count from zomato  
group by city,rating order by city,rating desc
```

city	rating	rating_count
Delhi NCR	4.3	1
Delhi NCR	4.2	1
Delhi NCR	4.0	1
Delhi NCR	3.9	2
Delhi NCR	3.8	6
Delhi NCR	3.7	3
Delhi NCR	3.6	4
Delhi NCR	3.5	3
Delhi NCR	3.4	4
Delhi NCR	3.3	1
Delhi NCR	3.2	4
Delhi NCR	3.0	2
Delhi NCR	2.9	2
Delhi NCR	2.8	2
Delhi NCR	2.7	1
Delhi NCR	2.5	1
Delhi NCR	0.0	18

city	rating	rating_count
Kolkata	4.1	1
Kolkata	3.7	1
Kolkata	3.6	2
Kolkata	3.4	1
Kolkata	3.2	2
Kolkata	3.0	1
Kolkata	2.8	1
Kolkata	0.0	4

city	rating	rating_count
Mumbai	4.7	1
Mumbai	4.4	1
Mumbai	4.1	1
Mumbai	3.9	2
Mumbai	3.8	2
Mumbai	3.7	1
Mumbai	3.6	1
Mumbai	3.5	2



Q18. WHICH CITY HAS THE HIGHEST AVERAGE RATING?

```
select city,round(avg(rating),0)as avg_rat from zomato  
group by city order by avg_rat desc
```

city	avg_rat
Mumbai	4
Delhi NCR	2
Kolkata	2



Q19. WHAT ARE THE FAMOUS FOODS OF EACH CITY?

```
select city, group_concat(distinct famous_food order by famous_food asc)as famous.foods.of.each.city  
from zomato where famous_food!=-'-' group by city order by city
```

city	famous_foods_of_each_city
Delhi NCR	Butter Chicken , Dal Makhani , Vegetable Biryani , Raita , Patra Ni Machhi , Roti , Momos,Chana Masala , Butter Naan , Paneer Bhurji
Kolkata	Biryani , Chicken Curry , Kulcha , Tandoori Roti , Chicken Masala , Chilli Chicken , Rolls,Burgers , Sandwich , Prawn Pizza , Hot Dog
Mumbai	Brownie Chocolate , Thick Shakes , Ice Cream Sandwich , Roasted Almond Ice Cream , Filter Coffee Ice,Coffee , Nachos , Garlic Bread



Q20. RESTAURANTS THAT OFFER FAMOUS FOODS

```
select restaurant,famous_food,city,rating from zomato  
where famous_food!="-" order by rating desc
```

restaurant	famous_food	city	rating
EggOMogo	Steak , Biryani , Sandwich , Burgers , Omelette ...	Mumbai	4.7
Curry And Combos Twist	Kadhai Paneer , Paneer Tikka , Gulab Jamun , C...	Mumbai	4.4
eat.fit	Salad , Dal Makhani , Rajma , Veg Thali , Puddin...	Delhi NCR	4.3
AIR- An Ivory Region	Pizza , Chicken Tikka , Momos , Paneer Tikka , Pi...	Delhi NCR	4.2
Where's My Cone?	Brownie Chocolate , Thick Shakes , Ice Cream S...	Mumbai	4.1
Cookie Man	Walnut Brownie , Choco Chip Cookies , Tea , Al...	Kolkata	4.1
Chakkhna : Beyond Peanuts	Dal Makhani , Dahi Ke Sholey , Paneer Tikka , Jh...	Delhi NCR	4.0
Coffee House	Coffee , Nachos , Garlic Bread , Cappuccino , H...	Mumbai	3.9
Deseez	Butter Chicken , Dal Makhani , Vegetable Biryani...	Delhi NCR	3.9
Domino's Pizza	Pizza , Onion Capsicum , Peppy Paneer , Calzon...	Delhi NCR	3.9
Ayub's	Rolls , Beda Roti , Biryani , Chicken Tikka Roll , P...	Mumbai	3.9
Food Fantasy	Tandoori Chicken , Pizza , Dal Makhani , Butter ...	Delhi NCR	3.8
Kadimi Sweets	Jalebi , Raita , Naan , Chole Bhature , Pakoda , ...	Delhi NCR	3.8
Tirupati Dosa Centre	Golmaal Dosa , Pizza Dosa , Jini Dosa , Jinni Dos...	Mumbai	3.8



SUMMARY

- The data analysis focused on restaurant data from Mumbai, Delhi NCR, and Kolkata.
- The top 10 highest-rated restaurants were identified, with an average dining cost of ₹400 for two, and a maximum cost of ₹2,000.
- North Indian cuisine was the most popular, while Delhi NCR offered the widest variety of cuisines with 56 options.
- The analysis also highlighted top-rated restaurants with online ordering, affordable dining areas, and the best value-for-money options.
- Average dining costs were compared, showing ₹350 in Mumbai, ₹421 in Delhi NCR, and ₹365 in Kolkata.
- Additionally, famous foods and the restaurants offering them were identified, with Mumbai boasting the highest average restaurant rating of 4.

Thank You

