

# SQL Project

## Online Food delivering (Zomato) Dataset

Source – <https://www.kaggle.com/datasets/abhijitdahatonde/zomato-restaurants-dataset>

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### 1. Retrieve Restaurants with Ratings Greater Than 4

The screenshot displays a SQL query execution environment. The query entered is `SELECT * FROM zomato WHERE Rating >= 4;`. The results are shown in a table with the following columns: Sr No., Restaurant\_name, Restaurant\_type, Rating, Num\_of\_ratings, Avg\_cost, Online\_order, Table\_booking, and Cuisines\_.

Sr No.	Restaurant_name	Restaurant_type	Rating	Num_of_ratings	Avg_cost	Online_order	Table_booking	Cuisines_
6	'@Italy	Casual Dining	4.1	305	700	Yes	No	Italian
11	1131 Bar + Kitchen	Bar, Casual Dining	4.4	2861	1500	No	Yes	Continent
12	12th Main - Grand Mercure	Fine Dining	4.1	353	2000	No	Yes	European,
13	1441 Pizzeria	Casual Dining	4.1	119	800	Yes	No	Pizza, Sal
14	1522 - The Pub	Pub	4.2	1731	1400	Yes	No	Chinese, C
15	154 Breakfast Club	Cafe	4	1509	900	Yes	Yes	Cafe, Con
16	1722 Urban Bistro	Casual Dining	4.1	218	600	Yes	Yes	North Indi
21	1Q1	Casual Dining, Bar	4.3	595	2500	No	Yes	Asian, Jap
24	20 Char - Sterlings MAC Hotel	Casual Dining, Bar	4	419	1400	Yes	Yes	Chinese, C
25	20 Feet High	Casual Dining, Bar	4	932	1000	Yes	Yes	American,
30	24/7 - The Lalit Ashok Bangal...	Fine Dining	4	344	3000	No	Yes	Continent

The interface also shows an 'Output' section with an 'Action Output' dropdown. The action log shows the query execution at 18:13:35, returning 1240 row(s).

#	Time	Action	Message
1	18:13:35	SELECT * FROM zomato WHERE Rating >= 4 LIMIT 0, 5000	1240 row(s) returned

## 2. Count the Number of Restaurants in Each Restaurant Type

zomato

Limit to 5000 rows

```
1 • SELECT Restaurant_type, COUNT(*) AS RestaurantCount
2 FROM zomato
3 GROUP BY Restaurant_type;
4
```

Result Grid

Restaurant_type	RestaurantCount
Quick Bites	2784
Cafe	395
Casual Dining	1620
Takeaway, Delivery	283
Bar, Casual Dining	53
Fine Dining	79
Pub	34
Casual Dining, Bar	121
Delivery	346
Kiosk	36
Food Court	79
Microbrewery	6

Result 5

Output

Action Output

#	Time	Action	Message
1	18:18:11	SELECT Restaurant_type, COUNT(*) AS RestaurantCount FROM zomato GROUP B...	81 row(s) returned

### 3. Find the Restaurant with the Highest Number of Ratings

The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the following SQL code:

```
1 • SELECT Restaurant_name, Num_of_ratings
2 FROM zomato
3 WHERE Num_of_ratings = (SELECT MAX(Num_of_ratings) FROM zomato);
4
```

Below the query editor, the 'Result Grid' is displayed, showing the results of the query. The grid has two columns: 'Restaurant\_name' and 'Num\_of\_ratings'. The first row shows 'Byg Brewski Brewing Company' with 16345 ratings.

Restaurant_name	Num_of_ratings
Byg Brewski Brewing Company	16345

At the bottom of the IDE, the 'Output' pane is visible, showing the execution log. The log indicates that the query was executed successfully at 18:30:21 and returned 1 row(s).

#	Time	Action	Message
1	18:30:21	SELECT Restaurant_name, Num_of_ratings FROM zomato WHERE Num_of_ratings...	1 row(s) returned

## 4. Calculate the Average Cost for Restaurants with Online Ordering

The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the following SQL code:

```
1 • SELECT AVG(Avg_cost) AS AvgCostWithOnlineOrder
2 FROM zomato
3 WHERE Online_order = 'yes';
4
```

The results pane displays a single row with the column name `AvgCostWithOnlineOrder` and the value `488.3926`. A tooltip for the value indicates "Resets all sorted columns".

Below the results pane, the "Action Output" section shows a log of the executed query:

#	Time	Action	Message
1	18:41:51	SELECT AVG(Avg_cost) AS AvgCostWithOnlineOrder FROM zomato WHERE Online...	1 row(s) returned

## 5. List Restaurants with Specific Cuisines in a Certain Area

zomato x zomato

Limit to 5000 rows

```
1 • SELECT Restaurant_name, Cuisines_type
2 FROM zomato
3 WHERE Cuisines_type LIKE '%North Indian%' AND Area = 'HSR';
4
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Restaurant_name	Cuisines_type
4K Biryani	North Indian, Chinese
7 Degrees North	North Indian
9 Bowls	Healthy Food, Continental, North Indian, Chinese
90's	North Indian
99 Variety Dose-Biryani-Starters	South Indian, North Indian, Fast Food, Chinese
Aaharam	Chinese, North Indian
Aao G Khao G	North Indian, Chinese
Agarwal Food Service	North Indian, Chinese, Biryani
Andhra Vantillu	South Indian, North Indian
Arogya	South Indian, North Indian, Chinese
Baithak	Continental, North Indian, Mughlai
Balle-Licious Kitchen	North Indian

zomato 17 x

Output

Action Output

#	Time	Action	Message
✓ 6	18:51:17	SELECT Restaurant_name, Cuisines_type FROM zomato WHERE Cuisines_type LI...	0 row(s) returned
✓ 7	18:51:30	SELECT Restaurant_name, Cuisines_type FROM zomato WHERE Cuisines_type LI...	110 row(s) returned

## 6. Find Restaurants that Offer Online Ordering but Not Table Booking

The screenshot shows a database query tool interface. At the top, there's a tab labeled 'zomato'. Below the tab is a toolbar with various icons and a dropdown menu set to 'Limit to 5000 rows'. The main area contains a SQL query:

```
1 • SELECT Restaurant_name, Online_order, Table_booking
2 FROM zomato
3 WHERE Online_order = 'yes' AND Table_booking = 'no';
4
5
6
```

Below the query editor, there's a 'Result Grid' section. It includes a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' checkbox. The grid displays the following data:

	Restaurant_name	Online_order	Table_booking
▶	#L-81 Cafe	Yes	No
	#refuel	Yes	No
	'@ Biryani Central	Yes	No
	'@ The Bbq	Yes	No
	'@Italy	Yes	No
	1000 B.C	Yes	No
	11 to 11 Express Biriyanis	Yes	No
	1441 Pizzeria	Yes	No
	1522 - The Pub	Yes	No

Below the result grid, there's a tab labeled 'zomato 18'. The 'Output' section is active, showing 'Action Output'. The output log displays the following message:

#	Time	Action	Message
✓ 1	19:02:14	SELECT Restaurant_name, Online_order, Table_booking FROM zomato WHERE On...	3359 row(s) returned

## 7. Search for Restaurants with a Specific Local Address

The screenshot shows a database query tool interface. At the top, there's a tab labeled 'zomato'. Below the tab is a toolbar with various icons and a 'Limit to 5000 rows' dropdown. The main area contains a SQL query editor with the following text:

```
1 • SELECT Restaurant_name, Local_address
2 FROM zomato
3 WHERE Local_address LIKE '%Kalyan Nagar%';
4
5
6
7
```

Below the query editor is a 'Result Grid' section. It has a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' checkbox. The grid displays the following data:

Restaurant_name	Local_address
2 Statez	Kalyan Nagar
4 Seasons Restaurant	Kalyan Nagar
7 Plates	Kalyan Nagar
AB's - Absolute Barbecues	Kalyan Nagar
Agent Jack's Bar	Kalyan Nagar
Aioli	Kalyan Nagar
Al Madhina Roll House	Kalyan Nagar
Al Madina Roll House	Kalyan Nagar
Alibaba Cafe and Restaurant	Kalyan Nagar

Below the result grid is an 'Output' section with a dropdown menu set to 'Action Output'. It shows a single action with a green checkmark, a timestamp of 19:05:41, the SQL query, and a message: '132 row(s) returned'.

## 8. Find the Top 10 Restaurants with the Most Ratings

zomato x zomato

Limit to 5000 rows

1 • **SELECT \* FROM zomato ORDER BY Num\_of\_ratings DESC LIMIT 10;**

2

3

4

5

6

7

<

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	Sr No.	Restaurant_name	Restaurant_type	Rating	Num_of_ratings	Avg_cost	Online_order	Table_booking	Cuisines
▶	1035	Byg Brewski Brewing Company	Microbrewery	4.9	16345	1600	Yes	Yes	Contin
	6665	Toit	Microbrewery	4.7	14956	1500	No	No	Italian, A
	6242	The Black Pearl	Casual Dining, Bar	4.7	10413	1400	No	Yes	North In
	770	Big Pitcher	Pub, Microbrewery	4.6	9272	1800	No	Yes	America
	423	Arbor Brewing Company	Pub, Microbrewery	4.5	8375	2000	No	Yes	America
	4808	Prost Brew Pub	Pub, Microbrewery	4.5	7854	1800	No	Yes	America
	1489	Church Street Social	Lounge	4.3	7544	1500	Yes	No	America

>

zomato 22 x

Output

Action Output

#	Time	Action	Message
✓ 1	19:15:05	SELECT * FROM zomato ORDER BY Num_of_ratings DESC LIMIT 10	10 row(s) returned



## 9. List the Different Types of Cuisines Available

zomato x zomato

Limit to 5000 rows

```
1 • SELECT DISTINCT Cuisines_type FROM zomato;
```

2

3

4

5

6

7

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Cuisines_type
Fast Food
Fast Food, Beverages
Cafe, Beverages
Biryani, Mughlai, Chinese
BBQ, Continental, North Indian, Chinese, Bever...
Mughlai, Biryani, Chinese, North Indian
Italian
North Indian
Arabian, Sandwich, Rolls, Burger

zomato 23 x

Output

Action Output

#	Time	Action	Message
✓ 1	19:18:27	SELECT DISTINCT Cuisines_type FROM zomato LIMIT 0, 5000	2156 row(s) returned

## 10. Calculate the Average Rating for Each Restaurant Type

The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the following SQL statement:

```
1 • SELECT Restaurant_type,  
2     AVG(Rating) FROM zomato  
3     GROUP BY Restaurant_type;  
4  
5  
6  
7
```

The results pane displays a table with two columns: **Restaurant\_type** and **AVG(Rating)**. The table contains 10 rows of data, representing different restaurant types and their average ratings. The results are as follows:

Restaurant_type	AVG(Rating)
Quick Bites	3.400646551724134
Cafe	3.6936708860759455
Casual Dining	3.594691358024695
Takeaway, Delivery	3.288339222614838
Bar, Casual Dining	3.9075471698113224
Fine Dining	4.149397590361447
Pub	3.7823529411764705
Casual Dining, Bar	3.8743801652892564
Delivery	3.38092485549133

Below the results table, the **Action Output** pane shows the execution details of the query:

#	Time	Action	Message
1	19:21:21	SELECT Restaurant_type, AVG(Rating) FROM zomato GROUP BY Restaurant_type...	81 row(s) returned

## 11. Find Restaurants with High Ratings and Low Average Cost

zomato x zomato

Limit to 5000 rows

```

1 • SELECT * FROM zomato
2   WHERE Rating > 4.0 AND Avg_cost < 1000;
3
4
5

```

Result Grid

Sr No.	Restaurant_name	Restaurant_type	Rating	Num_of_ratings	Avg_cost	Online_order	Table_booking	Cuisines_type
6	'@Italy	Casual Dining	4.1	305	700	Yes	No	Italian
13	1441 Pizzeria	Casual Dining	4.1	119	800	Yes	No	Pizza, Salad
16	1722 Urban Bistro	Casual Dining	4.1	218	600	Yes	Yes	North Indian, C
33	24th Main	Casual Dining	4.1	1234	800	No	Yes	North Indian, S
38	30 Square	Quick Bites	4.2	556	400	Yes	No	Tibetan, Nepali
49	4700BC Popcorn	Takeaway, Delivery	4.1	55	500	No	No	Fast Food
76	99 Pancakes	Dessert Parlor	4.1	41	150	Yes	No	Desserts, Ice C
85	A Hole Lotta Love Cafe	Cafe	4.3	2871	600	Yes	No	Cafe, American
192	Al Amanah Cafe	Quick Bites	4.4	1413	300	Yes	No	Middle Eastern
105	Al Dosa	Casual Dining	4.2	557	550	Yes	No	North Indian, C

zomato 25 x

Output

Action Output

#	Time	Action	Message
1	19:23:21	SELECT * FROM zomato WHERE Rating > 4.0 AND Avg_cost < 1000 LIMIT 0, 5000	443 row(s) returned

## 12. Find Restaurants with the Lowest Rating and No Table Booking

zomato x zomato

Limit to 5000 rows

```
1 • SELECT * FROM zomato
2 WHERE Rating = (SELECT MIN(Rating) FROM zomato) AND Table_booking = 'no';
3
4
5
6
7
```

Result Grid

Sr_No	Restaurant_name	Restaurant_type	Rating	Num_of_ratings	Avg_cost	Online_order	Table_booking	Cuisines_type
231	Alibi - Maya International Hotel	Casual Dining	1.8	224	1200	No	No	North Indian,

zomato 28 x

Output

Action Output

#	Time	Action	Message
1	20:39:38	SELECT * FROM zomato WHERE Rating = (SELECT MIN(Rating) FROM zomato) A...	1 row(s) returned

### 13. Calculate the Total Cost Spent at Restaurants in Each Area

zomato x zomato

Limit to 5000 rows

```
1 • SELECT Area, SUM(Avg_cost) FROM zomato
2 GROUP BY Area;
```

Result Grid

Area	SUM(Avg_cost)
Bellandur	195930
Byresandra,Tavarekere,Madiwala	387840
Bannerghatta Road	246730
Marathahalli	134350
Whitefield	181250
Banashankari	139489
Indiranagar	304140
Electronic City	205950
Old Airport Road	52300

Result 29 x

Output

Action Output

#	Time	Action	Message
✓ 1	20:52:34	SELECT Area, SUM(Avg_cost) FROM zomato GROUP BY Area LIMIT 0, 5000	30 row(s) returned

## 14. Find Restaurants with a Specific Rating Range

zomato x zomato

Limit to 5000 rows

```

1 • SELECT * FROM zomato
2 WHERE Rating BETWEEN 4.0 AND 4.9;
3
4
5
6
7

```

Result Grid

Sr_No	Restaurant_name	Restaurant_type	Rating	Num_of_ratings	Avg_cost	Online_order	Table_booking	Cuisines_
6	'@Italy	Casual Dining	4.1	305	700	Yes	No	Italian
11	1131 Bar + Kitchen	Bar, Casual Dining	4.4	2861	1500	No	Yes	Continent
12	12th Main - Grand Mercure	Fine Dining	4.1	353	2000	No	Yes	European,
13	1441 Pizzeria	Casual Dining	4.1	119	800	Yes	No	Pizza, Sale
14	1522 - The Pub	Pub	4.2	1731	1400	Yes	No	Chinese, C
15	154 Breakfast Club	Cafe	4	1509	900	Yes	Yes	Cafe, Con
16	1722 Urban Bistro	Casual Dining	4.1	218	600	Yes	Yes	North Indi
21	1Q1	Casual Dining, Bar	4.3	595	2500	No	Yes	Asian, Jap

zomato 32 x

Output

Action Output

#	Time	Action	Message
2	20:54:51	SELECT * FROM zomato WHERE Rating BETWEEN 4.0 AND 4.5 LIMIT 0, 5000	1189 row(s) returned
3	20:55:04	SELECT * FROM zomato WHERE Rating BETWEEN 4.0 AND 4.9 LIMIT 0, 5000	1244 row(s) returned

## 15. Count the Number of Restaurants by Restaurant Type

zomato x zomato

Limit to 5000 rows

```
1 • SELECT Restaurant_type, COUNT(*) FROM zomato
2 GROUP BY Restaurant_type;
```

Result Grid

Restaurant_type	COUNT(*)
Quick Bites	2784
Cafe	395
Casual Dining	1620
Takeaway, Delivery	283
Bar, Casual Dining	53
Fine Dining	83
Pub	34
Casual Dining, Bar	121
Delivery	346

Result 33 x

Output

Action Output

#	Time	Action	Message
✓ 1	20:56:32	SELECT Restaurant_type, COUNT(*) FROM zomato GROUP BY Restaurant_type LI...	81 row(s) returned