

PROJECT

RESTAURANT REVIEWS

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DEFINE THE PROBLEM

- We want to understand sales trends and popular menu items in a restaurant
- Let's break it down in 7 simple SQL steps

TOOLS USED



SUMMARY

This project is designed to introduce beginners to Structured Query Language (SQL), a foundational tool for managing and manipulating relational database. This guide will cover essential concepts syntax, and practical applications to helps learners interact with databases confidently

KNOW YOUR COLUMN

WE HAVE KEY COLUMN LIKE:

- We have 3 column

name

cuisines

rating

- We'll use the to run powerful analysis.

AVERAGE RATING ANALYSIS

FIND RESTAURANTS WITH A RATING HIGHER THAN THE OVERALL AVERAGE

```
select name,rating  
from restaurant  
where rating>(select AVG(rating) from restaurant)
```

	name	rating
1	Pizza Palace	4.5
2	Sushi Time	4.8

RATING OF RESTAURANTS

RANK RESTAURANTS BY RATING WITHIN THEIR CUISINE TYPE:

```
= select name,cuisine,rating,  
rank() over(partition by cuisine order by rating Desc) as rnk  
from restaurant
```

name	cuisine	rating	rnk
Burger spot	American	3.9	1
Pizza Palace	Italian	4.5	1
Sushi Time	Japanese	4.8	1
Taco Haven	Mexican	4.2	1

NUMBER OF RESTAURANT

COUNT THE NUMBER OF RESTAURANTS IN NEW YORK:

```
select COUNT(*) as totalrestaurants  
from restaurant  
where location='New York';
```

totalrestaurants	
1	

ALL RESTAURANTS

SHOW ALL RESTAURANTS IN THE TABLE:

```
select id,name,Cuisine,location,rating from restaurant
```

id	name	Cuisine	location	rating
1	Pizza Palace	Italian	New York	4.5
2	Taco Haven	Mexican	Los Angles	4.2
3	Sushi Time	Japanse	Tokyo	4.8
4	Burger spot	American	Chicago	4.3

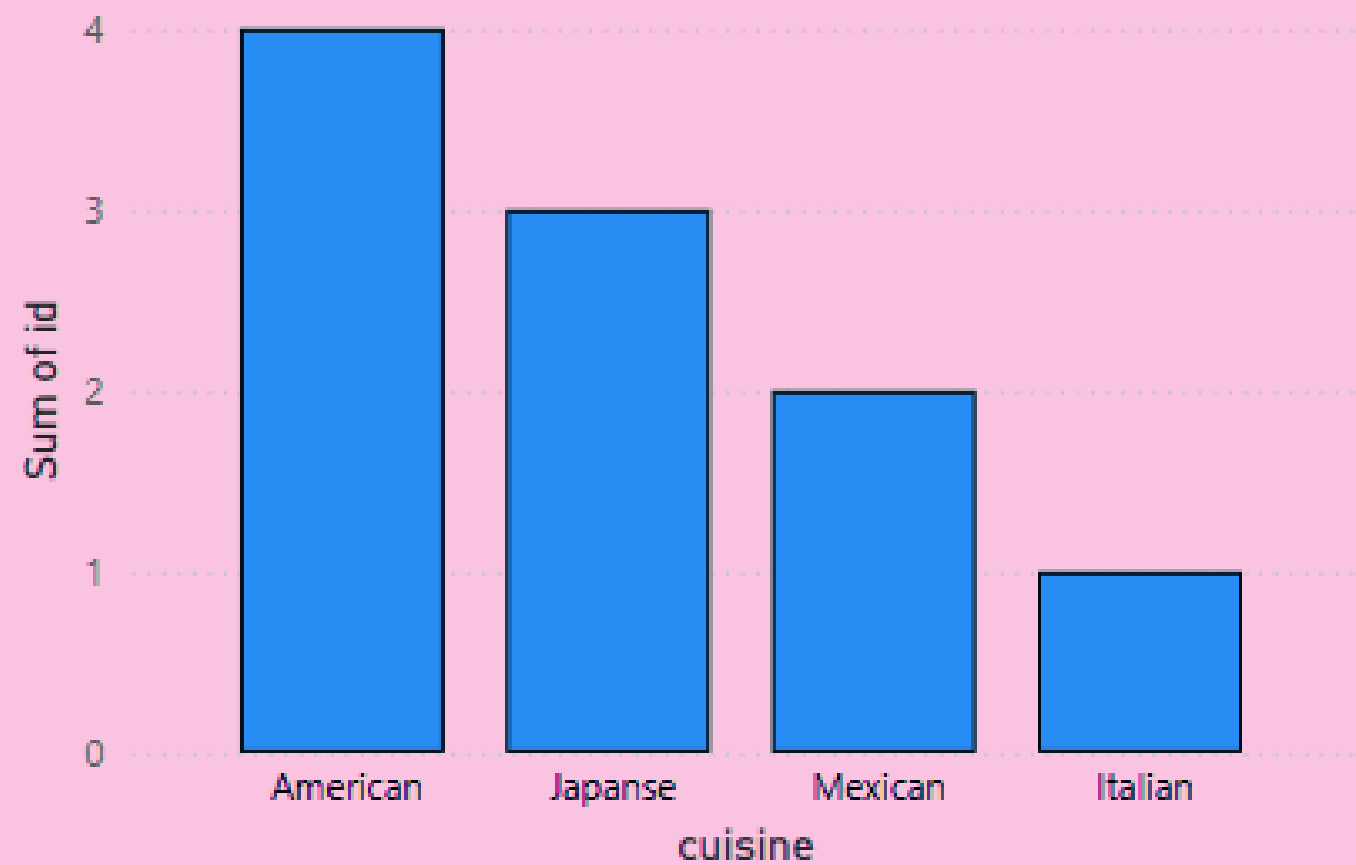
CUMULATIVE AVERAGE

SHOW THE CUMULATIVE AVERAGE RATING BY LOCATION(RUNNING TOTAL).

```
select location,name,rating,  
AVG(rating) over (partition by location order by id) as cummulative_avg  
from restaurant;
```

location	name	rating	cummulative_avg
Chicago	Burger spot	4.3	4.300000
Los Angeles	Taco Haven	4.2	4.200000
New York	Pizza Palace	4.5	4.500000
Tokyo	Sushi Time	4.8	4.800000

Sum of id by cuisine



10

Sum of id

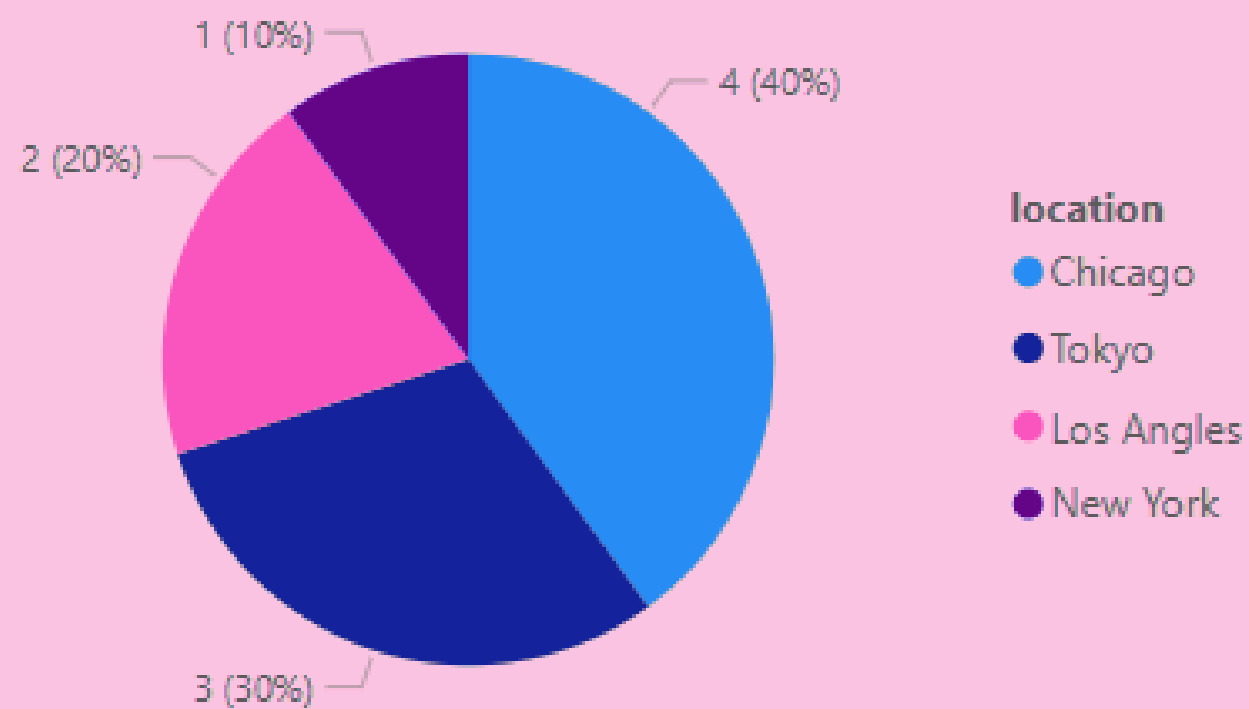
American

First cuisine

17.40

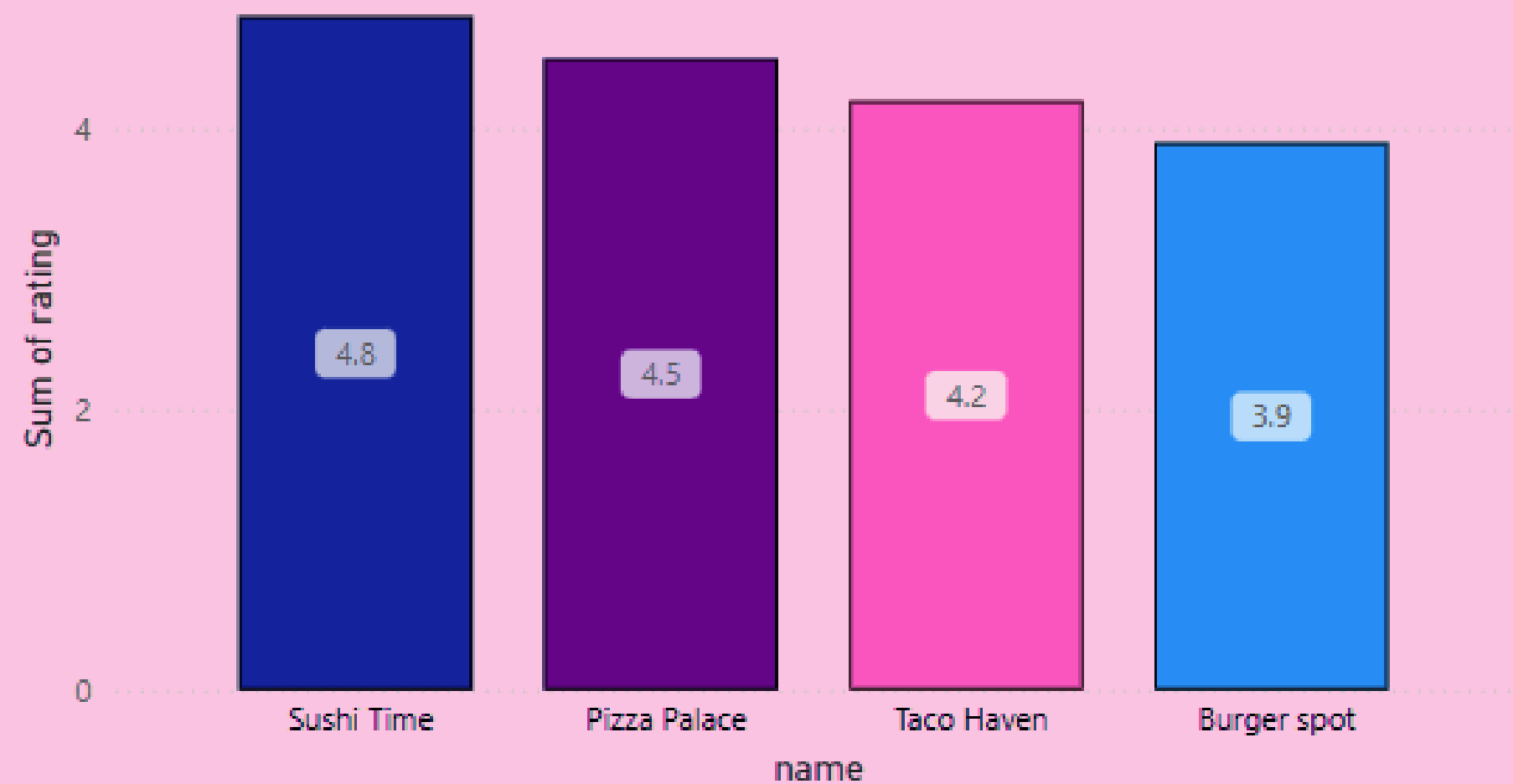
Sum of rating

Sum of id by location



Sum of rating by name and location

location ● Chicago ● Los Angeles ● New York ● Tokyo



The background features a dark blue field with faint, concentric circles centered behind the text. Overlaid on these are several large, semi-transparent blue geometric shapes, including chevrons and zig-zags, which create a layered, architectural effect.

THANK YOU