

By Ahmad Ammar



Restaurant Ratings MYSQL PROJECT



TABLES

- consumer_preferences
- consumers
- ratings
- restaurant_cuisines
- restaurants_data

Introduction

Restaurant ratings in Mexico by real consumers from 2012, including additional information about each restaurant and their cuisines, and each consumer and their preferences.



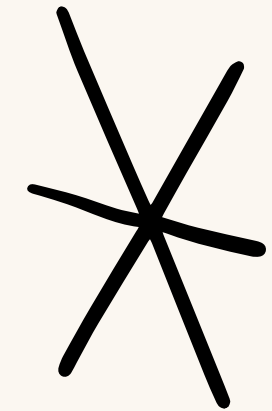
► List all distinct cuisines preferred by consumers.



```
SELECT DISTINCT Preferred_Cuisine  
FROM consumer_preferences;
```

OUTPUT

	Preferred_Cuisine
	American
	Mexican
	Bakery
	Breakfast
	Japanese
	Contemporary
	Bagels
	Coffee Shop
	Continental






Find the number of consumers who prefer Mexican cuisine.

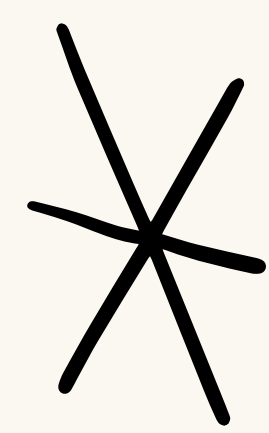


```
SELECT COUNT(DISTINCT Consumer_ID) AS Mexican_Preferrers
FROM consumer_preferences
WHERE Preferred_Cuisine = 'Mexican';
```



OUTPUT

	Mexican_Preferrers
▶	97

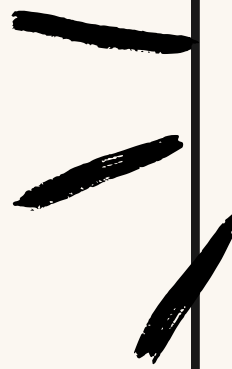




List all restaurants located in 'San Luis Potosi'.



```
SELECT name  
FROM restaurants_data  
WHERE City = 'San Luis Potosi';
```



OUTPUT

	name
▶	Cafe Chaires
	Gordas De Morales
	Cabana Huasteca
	La Estrella De Dimas
	Puesto De Tacos
	Rincon Huasteco
	Gorditas Doa Gloria
	Cenaduria El Rinc�n De Tlaquepaque



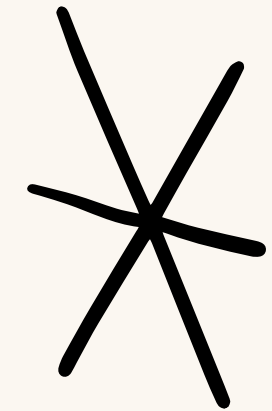
Find the average overall rating for all restaurants.



```
SELECT AVG(Overall_Rating) AS Average_Overall_Rating  
FROM ratings;
```

OUTPUT

	Average_Overall_Rating
▶	1.1998



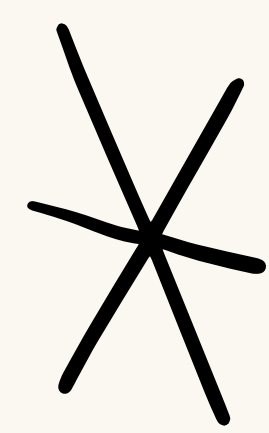
► **Find the most preferred cuisine by consumers.**



```
SELECT Preferred_Cuisine, COUNT(*) AS Preference_Count  
FROM consumer_preferences  
GROUP BY Preferred_Cuisine  
ORDER BY Preference_Count DESC  
LIMIT 1;
```

OUTPUT

	Preferred_Cuisine	Preference_Count
▶	Mexican	97

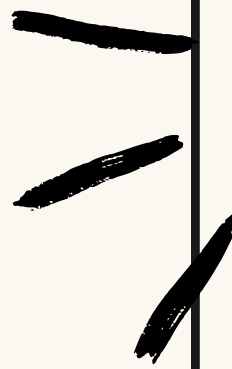




► **List the top 5 highest-rated restaurants along with their average food rating.**

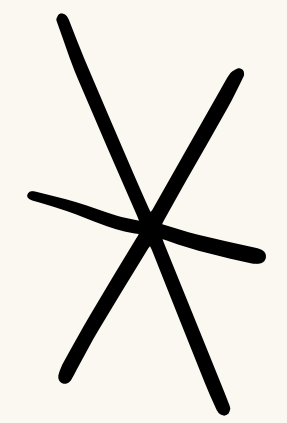


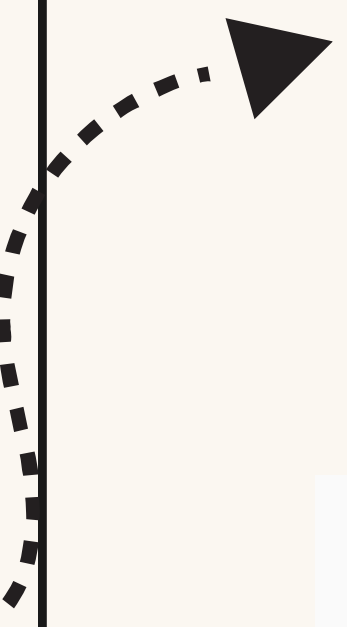
```
SELECT Restaurant_ID, AVG(Food_Rating) AS Average_Food_Rating
FROM ratings
GROUP BY Restaurant_ID
ORDER BY Average_Food_Rating DESC
LIMIT 5;
```



OUTPUT

	Restaurant_ID	Average_Food_Rating
▶	132755	2.0000
	132667	2.0000
	135034	2.0000
	134986	2.0000
	135013	2.0000





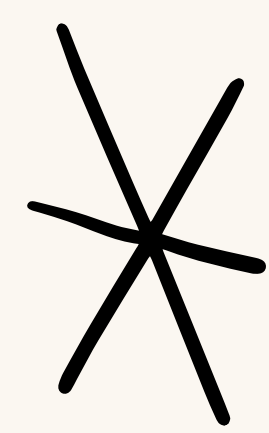
Find the consumer who has rated the most restaurants and list how many ratings they have given.



```
SELECT Consumer_ID, COUNT(*) AS Rating_Count
FROM ratings
GROUP BY Consumer_ID
ORDER BY Rating_Count DESC
LIMIT 1;
```


OUTPUT

	Consumer_ID	Rating_Count
▶	U1106	18

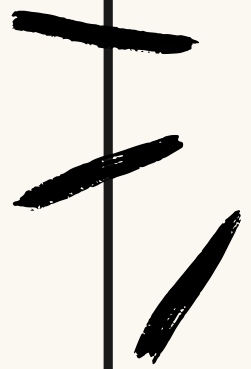




**List the names of all restaurants along
with their cuisines**



```
SELECT rd.Name AS Restaurant_Name, rc.Cuisine  
FROM restaurants_data rd  
JOIN restaurant_cuisines rc ON rd.Restaurant_ID = rc.Restaurant_ID;
```



OUTPUT

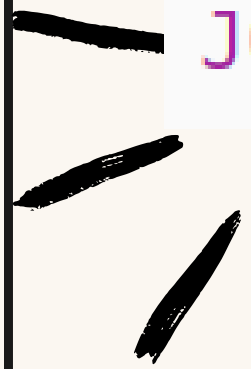
	Restaurant_Name	Cuisine
▶	Puesto de Gorditas	Regional
	Cafe Chaires	Cafeteria
	McDonalds Centro	American
	Gorditas Doña Tota	Mexican
	Tacos De Barbacoa Enfrente Del Tec	Mexican
	Hamburguesas La Perica	Mexican
	Pollo Frito Buenos Aires	Fast Food
	Carnitas Mata	Mexican



Find the city and state for each restaurant along with the name of the restaurant and its cuisine.



```
SELECT r.Name AS Restaurant_Name, r.City, r.State, rc.Cuisine
FROM restaurants_data r
JOIN restaurant_cuisines rc ON r.Restaurant_ID = rc.Restaurant_ID;
```



OUTPUT


	Restaurant_Name	City	State	Cuisine
▶	Puesto de Gorditas	Ciudad Victoria	Tamaulipas	Regional
	Cafe Chaires	San Luis Potosi	San Luis Potosi	Cafeteria
	McDonalds Centro	Cuernavaca	Morelos	American
	Gorditas Doña Tota	Ciudad Victoria	Tamaulipas	Mexican
	Tacos De Barbacoa Enfrente Del Tec	Ciudad Victoria	Tamaulipas	Mexican
	Hamburguesas La Perica	Ciudad Victoria	Tamaulipas	Mexican
	Pollo Frito Buenos Aires	Ciudad Victoria	Tamaulipas	Fast Food
	Carnitas Mata	Ciudad Victoria	Tamaulipas	Mexican



Find the average service rating for each type of cuisine offered by restaurants.



```
SELECT rc.Cuisine, AVG(r.Service_Rating) AS Average_Service_Rating
FROM ratings r
JOIN restaurant_cuisines rc ON r.Restaurant_ID = rc.Restaurant_ID
GROUP BY rc.Cuisine;
```




OUTPUT

	Cuisine	Average_Service_Rating
►	Fast Food	0.9560
	Mexican	1.0798
	Seafood	1.1774
	Pizzeria	1.0392
	Regional	0.2500
	Armenian	1.2500
	Cafeteria	1.0784
	American	1.1282
	Brewery	1.2034
	Bar	1.0857
	Italian	0.9615
	Japanese	1.2759



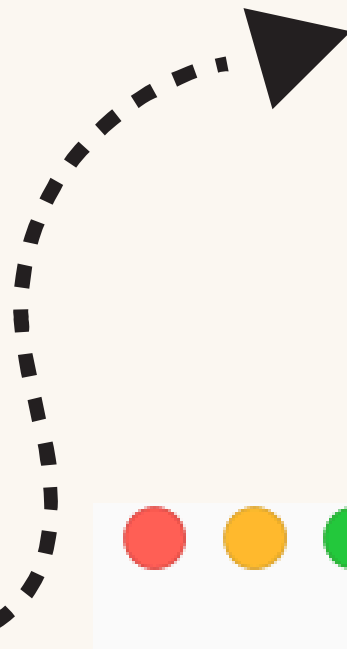
List the average rating for each restaurant by each consumer who has rated them, along with the consumer's city and state.

```
SELECT c.Consumer_ID, c.City, c.State, r.Restaurant_ID, rr.Name
AS Restaurant_Name,
      AVG(r.Overall_Rating) AS Avg_Overall_Rating,
      AVG(r.Food_Rating) AS Avg_Food_Rating,
      AVG(r.Service_Rating) AS Avg_Service_Rating
FROM consumers c
JOIN ratings r ON c.Consumer_ID = r.Consumer_ID
JOIN restaurants_data rr ON r.Restaurant_ID = rr.Restaurant_ID
GROUP BY c.Consumer_ID, c.City, c.State, r.Restaurant_ID,
rr.Name;
```



OUTPUT

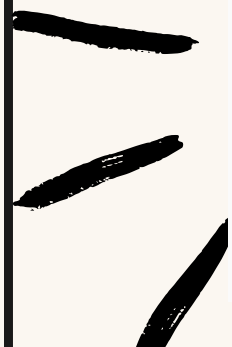
	Consumer_ID	City	State	Restaurant_ID	Restaurant_Name	Avg_Overall_Rating	Avg_Food_Rating	Avg_Service_Rating
▶	U1001	San Luis Potosi	San Luis Potosi	135051	Restaurante Versailles	1.0000	1.0000	2.0000
	U1001	San Luis Potosi	San Luis Potosi	135025	El Rincon De San Francisco	2.0000	2.0000	2.0000
	U1001	San Luis Potosi	San Luis Potosi	135033	Restaurant El Muladar De Calzada	1.0000	1.0000	1.0000
	U1001	San Luis Potosi	San Luis Potosi	135045	Restaurante La Gran Via	1.0000	1.0000	1.0000
	U1001	San Luis Potosi	San Luis Potosi	135039	Restaurant De Mariscos De Picon	1.0000	1.0000	1.0000
	U1001	San Luis Potosi	San Luis Potosi	135040	Restaurant Los Compadres	1.0000	1.0000	1.0000
	U1001	San Luis Potosi	San Luis Potosi	135085	Tortas Locas Hipocampo	0.0000	1.0000	1.0000
	U1001	San Luis Potosi	San Luis Potosi	132825	Puesto De Tacos	2.0000	2.0000	1.0000
	U1001	San Luis Potosi	San Luis Potosi	132830	Rincon Huasteco	1.0000	1.0000	1.0000
	U1002	San Luis Potosi	San Luis Potosi	135085	Tortas Locas Hipocampo	1.0000	1.0000	1.0000
	U1002	San Luis Potosi	San Luis Potosi	132925	El Pueblito	1.0000	1.0000	2.0000
	U1002	San Luis Potosi	San Luis Potosi	135041	Luna Cafe	2.0000	1.0000	0.0000
	U1002	San Luis Potosi	San Luis Potosi	135059	Restaurant Bar Hacienda Los Mar...	1.0000	2.0000	1.0000
	U1002	San Luis Potosi	San Luis Potosi	132862	La Posada Del Virrev	2.0000	2.0000	2.0000





Find the top 3 consumers who have rated the most number of different restaurants and list their ID, and the count of different restaurants they have rated.

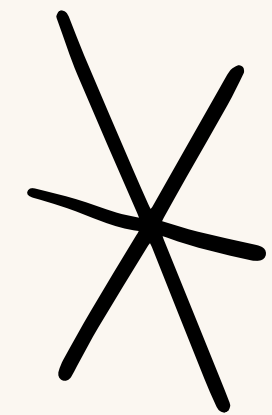


```
SELECT c.Consumer_ID, COUNT(DISTINCT r.Restaurant_ID) AS Restaurant_Count
FROM consumers c
JOIN ratings r ON c.Consumer_ID = r.Consumer_ID
GROUP BY c.Consumer_ID
ORDER BY Restaurant_Count DESC
LIMIT 3;
```



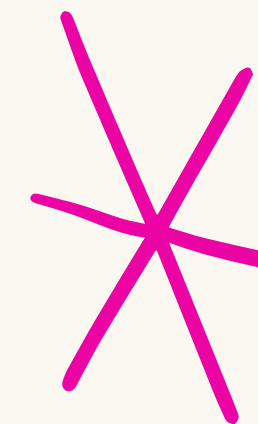
OUTPUT

Result Grid   Filter Rows: <input type="text"/>		
	Consumer_ID	Restaurant_Count
▶	U1061	18
	U1106	18
	U1134	16





**THANK
YOU!**



AHMAD AMMAR