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Title: DB Assignment 2

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Problem 1: Average Price of Foods at Each Restaurant

To find the average price of foods at each restaurant, the tables: restaurant, serves, and foods were cross joined by restID and FoodID. The query groups the data by the name of the restaurant and aggregates the average price of food served at each restaurant.

```SQL
select distinct restaurants.name, avg(price)
from    restaurants, serves,foods
where   (restaurants.restID = serves.restID) and (foods.FoodID = serves.foodID)
group by restaurants.name;
```

name	avg(price)
La Trattoria	13.5000
Sushi Haven	12.0000
Taco Town	9.5000
Bistro Paris	13.5000
Thai Delight	12.0000
Indian Spice	13.5000

Problem 2: Maximum Food Price at Each Restaurant

To find the maximum food price at each restaurant, the tables: restaurants, serves, and foods were cross joined by restID and foodID. The query groups the data by restaurant name and aggravated the max price of each food served at each restaurant.

```SQL
select distinct restaurants.name, MAX(price)
from    restaurants, serves,foods
where   (restaurants.restID = serves.restID) and (foods.FoodID = serves.foodID)
group by restaurants.name;
```

	name	MAX(price)
▶	La Trattoria	15
	Sushi Haven	14
	Taco Town	11
	Bistro Paris	18
	Thai Delight	13
	Indian Spice	15

Problem 3: Count of Different Food Types Served at Each Restaurant

To find the number of different types of food served at each restaurant, the tables: restaurants, serves, and foods were cross joined by restID and foodID. Grouped by restaurant name, the query aggregates the count of the distinct number of food types served at each restaurant.

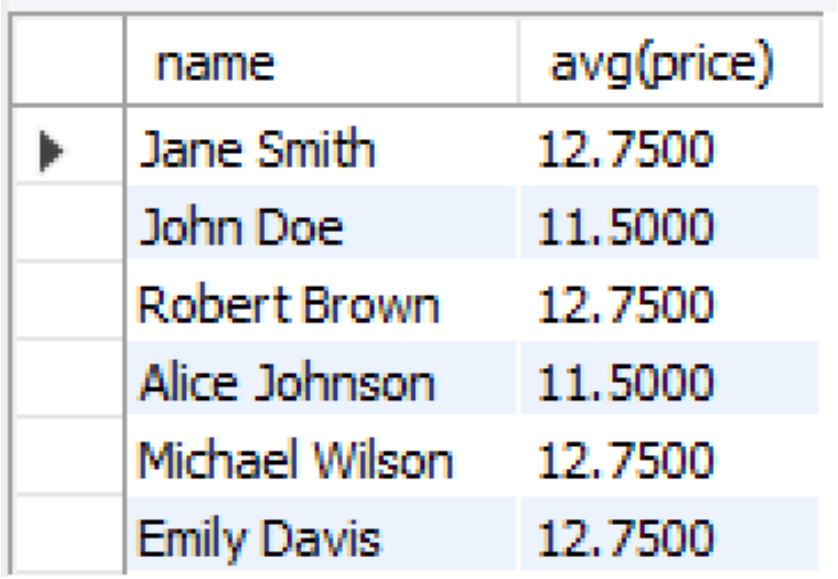
```SQL
select distinct restaurants.name, count(distinct type)
from    restaurants, serves,foods
where   (restaurants.restID = serves.restID) and (foods.FoodID = serves.foodID)
group by restaurants.name;
```

	name	count(distinct type)
▶	Bistro Paris	1
	Indian Spice	1
	La Trattoria	1
	Sushi Haven	2
	Taco Town	1
	Thai Delight	1

Problem 4: Average Price of Foods Served by Each Chef

To find the average price of foods served by each each, the tables: chefs, works, restaurants, serves, and foods were cross joined using chefsID, restID, and foodID. The query grouped the data by the names of the chefs and aggregated the price by pulling what restaurants each of the chefs work for and the average price of these foods.

```SQL
select distinct chefs.name, avg(price)
from    chefs, works,restaurants,serves,foods
where   (chefs.chefID = works.chefID) and (works.restID = restaurants.restID)
and (restaurants.restID = serves.restID) and (foods.FoodID = serves.foodID)
group by chefs.name;
```



	name	avg(price)
▶	Jane Smith	12.7500
	John Doe	11.5000
	Robert Brown	12.7500
	Alice Johnson	11.5000
	Michael Wilson	12.7500
	Emily Davis	12.7500

Problem 5: Find the Restaurant with the Highest Average Food Price

To find the restaurant with the highest average food price , the tables: restaurants, serves, and foods were cross joined by restID and foodID. The average price for each restaurant is aggregated using having. The having checks which price is greater than or equal to compared to the other prices. It was found that La Trattoria, Bistro Paris, and Indian Spice have the same highest average food price.

```SQL
select distinct restaurants.name, avg(price)
from    restaurants, serves,foods
where   (restaurants.restID = serves.restID) and (foods.FoodID = serves.foodID)
group by restaurants.name
having (avg(price)) >= all
    (select avg(price) from restaurants, serves,foods
    group by restaurants.name);
```

	name	avg(price)
▶	La Trattoria	13.5000
	Bistro Paris	13.5000
	Indian Spice	13.5000