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DBMS HW2
9/30/2025

Q1:

```
select AVG(price), restauraunts.name as rname
from serves natural join restauraunts
join foods on serves.foodID = foods.foodID
group by rname; #Q1
```

After joining restaurants and foods to the serves table, I select the avg price of the food, and the restaurant name. I have to use a group by statement since i am using an aggregate function. It now displays average food price per restaurant.

AVG(price)	rname
13.5	La Trattoria
12	Sushi Haven
9.5	Taco Town
13.5	Bistro Paris
12	Thai Delight
13.5	Indian Spice

Q2:

```
select MAX(price), restauraunts.name as rname
from serves natural join restauraunts
join foods on serves.foodID = foods.foodID
group by rname; #Q2
```

I select a simple max price and name of the restaurant. I join both tables to the serves table. I group since I am using an aggregate function. It will display the max price for each restaurant now.

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

Q3:

```
select distinct count(foods.type) as foodTypeCount, restauraunts.name as rname
from serves natural join restauraunts
join foods on serves.foodID = foods.foodID
group by rname; #Q3
```

This shows the different distinct food types served at each restaurant. I take the count of foods.type after joining the correct tables. I join the tables on foodID, which correspond to each other as an exact match.

foodTypeCou...	rname
2	La Trattoria
2	Sushi Haven
2	Taco Town
2	Bistro Paris
2	Thai Delight
2	Indian Spice

Q4:

```
select AVG(price), chefs.name
from serves natural join foods
join chefs on foods.type = chefs.specialty
group by chefs.name; #Q4
```

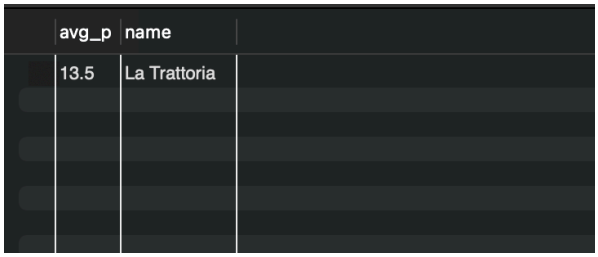
This query shows the average price of the food made by each chef. I select average price and chef name after I join the foods and chefs tables to serves. I join chefs.specialty column because it lines up with foods.type column. I then group by since I am using an aggregate function.

AVG(price)	name
13.5	John Doe
9.5	Alice Johnson
13.5	Robert Brown
12	Emily Davis
13.5	Michael Wilson

Q5:

```
select AVG(price) as avg_p, restauraunts.name
from serves natural join restauraunts
join foods on serves.foodID = foods.foodID
group by restauraunts.name
order by avg_p desc
limit 1; #Q5
```

This query joins restaurants and foods to the serves table and selects the average price and restaurant name. It then displays the top result by ordering it by descending order and limiting results to 1.



avg_p	name
13.5	La Trattoria