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DB Assignment 2

September 28, 2025

1. Average Price of Foods at Each Restaurant

select r.name as restaurant,

avg(f.price) as avg_price

from restaurants r

join serves s on r.restID = s.restID

join foods f on s.foodID = f.foodID

group by r.restID, r.name;

```sql
-- Query 1: Average Price of Foods at Each Restaurant
select r.name as restaurant,
avg(f.price) as avg_price
from restaurants r
join serves s on r.restID = s.restID
join foods f on s.foodID = f.foodID
group by r.restID, r.name;
```

The query finds the average price of all foods served in each restaurant. It solves the problem by joining the restaurants, serves, and foods together, then calculating the average price. Then group results by restaurant.

2. Maximum Food Price at Each Restaurant

select r.name as restaurant,

MAX(f.price) AS max_price

from restaurants r

join serves s on r.restID = s.restID

join foods f on s.foodID = f.foodID

group by r.restID, r.name;

```
select r.name as restaurant,
MAX(f.price) AS max_price
from restaurants r
join serves s on r.restID = s.restID
join foods f on s.foodID = f.foodID
group by r.restID, r.name;
```

This query shows the highest-priced food served at each restaurant. It uses the max function on the price column, after joining the restaurant and food information.

3. Count of Different Food Types Served at Each Restaurant

select r.name as restaurant,

COUNT(distinct f.type) as food_type_count

from restaurants r

join serves s on r.restID = s.restID

join foods f on s.foodID = f.foodID

group by r.restID, r.name;

```
select r.name as restaurant,
COUNT(distinct f.type) as food_type_count
from restaurants r
join serves s on r.restID = s.restID
join foods f on s.foodID = f.foodID
group by r.restID, r.name;
```

This query counts how many different types of food each restaurant serves. The count and distinct functions make sure we only count each food type once.

4. Average Price of Foods Served by Each Chef

select c.name as chef,

AVG(f.price) as avg_price

from chefs c

join works w on c.chefID = w.chefID

join serves s on w.restID = s.restID

join foods f on s.foodID = f.foodID

group by c.chefID, c.name;

```
select c.name as chef,
AVG(f.price) as avg_price
from chefs c
join works w on c.chefID = w.chefID
join serves s on w.restID = s.restID
join foods f on s.foodID = f.foodID
group by c.chefID, c.name;
```

This query finds the average price of foods associated with each chef. Then it averages the prices of those foods.

5. Find the Restaurant with the Highest Average Food Price

select r.name as restaurant,

AVG(f.price) as avg_price

from restaurants r

join serves s on r.restID = s.restID

join foods f on s.foodID = f.foodID

group by r.restID, r.name

order by avg_price desc;

```
select r.name as restaurant,
AVG(f.price) as avg_price
from restaurants r
join serves s on r.restID = s.restID
join foods f on s.foodID = f.foodID
group by r.restID, r.name
order by avg_price desc;
```

This query calculates the average food price at each restaurant and sorts them from highest to lowest.