Title: DB Assignment 2

Date: September 30,2025

Objective:

Write a SQL query to answer each of the following:

1. Average Price of Foods at Each Restaurant

```
-- Query 1: Finding the average price of foods at each restaurant
  5
         select restaurants.name, avg(foods.price) as avgprice
         from restaurants inner join serves on(restaurants.restID = serves.restID)
                             inner join foods on (foods.foodID = serves.foodID)
         group by restaurants.name
         order by avgprice;
 10
 11
 12
Result Grid
                                           Export: Wrap Cell Content: IA
              Filter Rows:
   name
              avgprice
  Taco Town
              9.5
  Sushi Haven
              12
  Thai Delight
              12
  La Trattoria
              13.5
  Bistro Paris
              13.5
  Indian Spice
              13.5
```

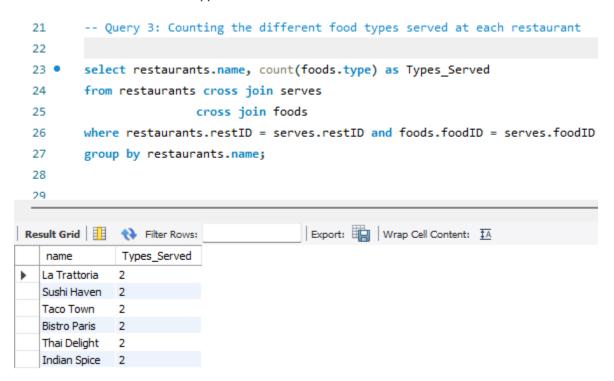
The query shows the average price of foods at each restaurant. It solves the problem by utilizing inner join with an on clause to manually link the primary keys in the restaurants table with the serves table and foods table. The restaurant name as well as the average price (which was calculated using the avg aggregate function) of the foods served at each restaurant is then shown in the resulting table which was ordered by the average price in ascending order.

2. Maximum Food Price at Each Restaurant

```
-- Query 2: Finding the maximum food price at each restaurant
 13
 14
         select restaurants.name, max(foods.price) as MaxPrice
 15 •
         from restaurants inner join serves on (restaurants.restID = serves.restID)
 16
                          inner join foods on (foods.foodID = serves.foodID)
 17
         group by restaurants.name
 18
         order by max(foods.price);
 19
 20
                                           Export: Wrap Cell Content: IA
Result Grid
              Filter Rows:
   name
              MaxPrice
  Taco Town
              11
  Thai Delight
              13
  Sushi Haven
              14
  La Trattoria
              15
  Indian Spice
              15
  Bistro Paris
              18
```

This query looks to find the maximum food price at each restaurant. The problem was solved similarly to the last one by using inner join with an on clause to specifically link the primary key in the restaurants table with the serves table and the foods table. The resulting table shows the restaurant name as well as the max price of the food price at each restaurant (which was calculated using the max aggregate function), and is ordered by the max price in ascending order.

3. Count of Different Food Types Served at Each Restaurant



The third query's goal is to count the different food types served at each restaurant. It was solved using cross join to combine the restaurants table with serves and foods table. The resulting table displays the restaurant name as well as the number of food types served (which was calculated using the count aggregate function.

4. Average Price of Foods Served by Each Chef

```
-- Query 4: Finding average price of foods served by each chef
 29
 30
 31 •
        select chefs.name, avg(foods.price) as AVGPrice
        from chefs inner join works using(chefID)
 32
 33
                    inner join serves using(restID)
                    inner join foods using(foodID)
 34
 35
        group by chefs.name
        order by AVGPrice;
 36
 37
 38
 39
                                         Export: Wrap Cell Content: IA
AVGPrice
   name
  John Doe
               11.5
  Alice Johnson
               11.5
  Jane Smith
               12.75
  Robert Brown
               12.75
  Emily Davis
               12.75
  Michael Wilson
               12.75
```

The fourth query aims to find the average price of foods served by each chef. This was done by using inner join with using clause to combine the chefs table with the works, serves, and foods table. The resulting table shows the name of the chefs as well as the average price of foods they served (which was calculated using the avg function).

5. Find the Restaurant with the Highest Average Food Price

```
-- Query 5: Finding the restaurant with the highest average food price
 39
 40 •
         select restaurants.name, avg(foods.price)
        from restaurants inner join serves on(restaurants.restID = serves.restID)
 41
 42
                            inner join foods on (foods.foodID = serves.foodID)
         group by restaurants.name
 43
        having avg(foods.price) >=all
 44
 45
                (Select avg(foods.price)
 46
                 from restaurants inner join serves on(restaurants.restID = serves.restID)
                                   inner join foods on (foods.foodID = serves.foodID)
 47
 48
                                   group by restaurants.name);
 49
 50
 51
 52
 53
Export: Wrap Cell Content: IA
              avg(foods.price)
   name
  La Trattoria
              13.5
  Bistro Paris
             13.5
  Indian Spice
             13.5
```

The last query aims to find the restaurant with the highest average food price. This was solved using inner join with an on clause to combine the restaurants table with the serves and foods tables. A subquery was then used to compare the average food prices and return the highest average food price. The resulting table shows the names of the restaurants with the highest average food price.