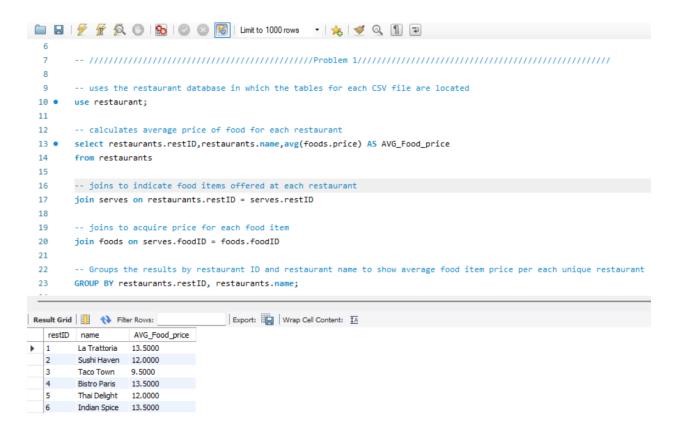
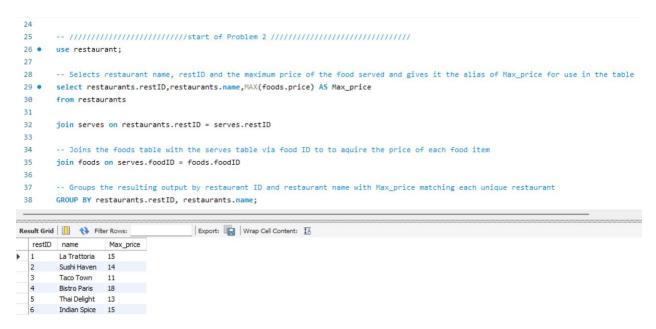
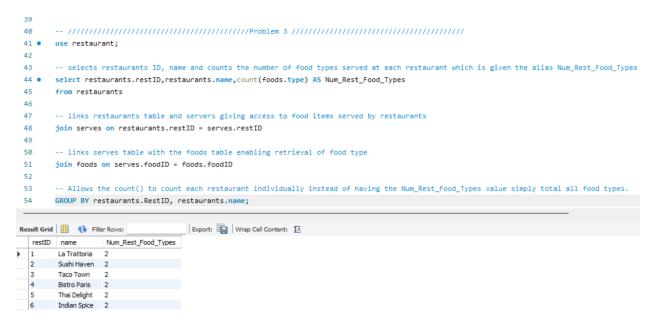
DB Assignment 2 Leonidas Kesaris 9/26/2024



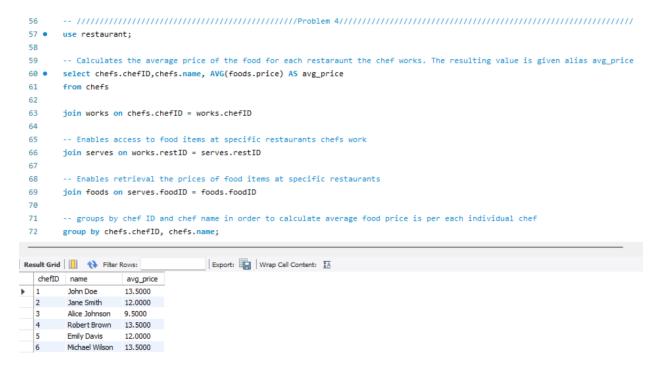
The above SQL Script for problem 1 calcuates the average price of each food item served at each specific restaurant. The script joins the restaurants table, the serves table and the foods table to aquire data neccesary to then calcuate the average which is grouped by restaurant ID and name to have the average food prices be attached to specific restaurants.



The above SQL query for problem 2 calculates the restaurant with the highest priced food item at each restaurant. The script joins the restaurant, serves and foods table to acquire the data necessary to then utilize the max function on foods.price. The Script then groups by restaurant to have the results return the highest priced food for each restaurant.



The above SQL Query for problem 3 counts how many distinct food types are served at each restaurant. The query joins the restaurant, serves and foods table to acquire the data necessary to then utilize the count function with the keyword DISTINCT to ensure that only unique food types are counted. The results are grouped by restaurant to ensure that specific restaurants food types are counted.



The above SQL query for problem 4 calculates the average price of the food items served at the restaurants each chef works. The query joins chefs, works serves and foods tables to calculate the average price, the result is then grouped by chefID and name to ensure price is calculated by chef.

```
75 •
       use restaurant:
 76
        -- Calculates the average price of food at said restaurant in the alias AVG_price
 78 • select restaurants.name, AVG(foods.price) AS AVG_Price
 79
       from restaurants
 80
 81
        -- Gives access to each restaurant's food items
       Join serves on restaurants.restID = serves.restID
       -- Allows retrieval of prices for the food items of each restaurant
 85
       ioin foods on serves.foodID = foods.foodID
 86
        -- groups by restaurant ID and name to maintain average price for individual restaurants.
 87
 88
       group by restaurants.restID, restaurants.name
 89
 90
        -- Descending order so the highest value is given.
 91
       order by AVG_Price DESC
 93
        -- Restricts output to 1 value to ensure only the highest value for average price is given along with the restaurant's name
        LIMIT 1:
 94
Export: Wrap Cell Content: A Fetch rows:
   name
            AVG_Price
▶ La Trattoria 13,5000
```

The above SQL query for problem 5 calculates the restaurant with the highest average food price. Restaurant, serves and foods are joined, and the average food price is calculated with the joined data for each restaurant. The result is ordered by AVG_Price in descending order with a limit of 1 to show only the top priced restaurant.