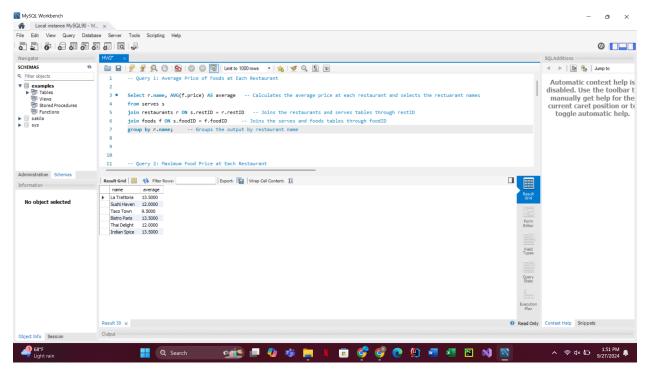
Title: DB Assignment 2

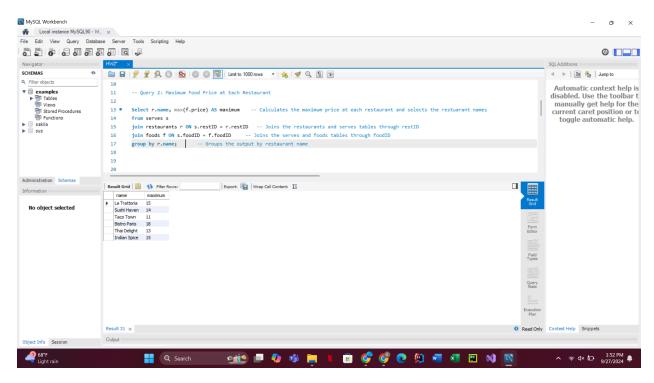
Your Name: Ryan Smith

Date: 9/26/2024

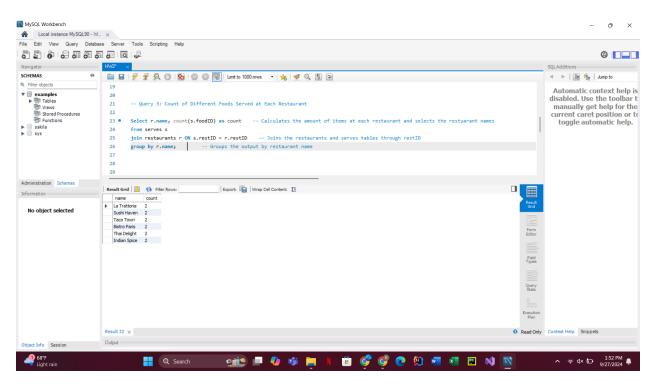
Github link: https://github.com/rsmith1388/Databases.git



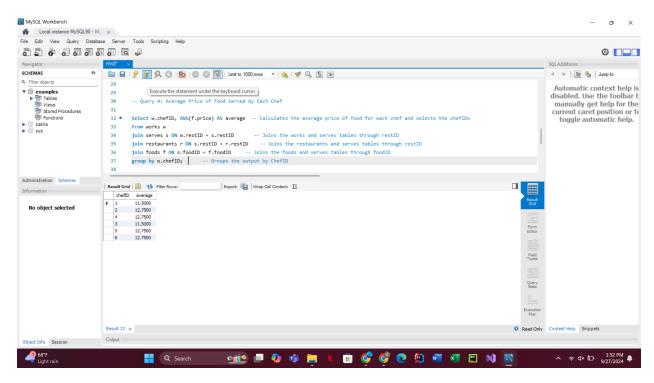
Query 1: Finds the average price of food at each restaurant by averaging. The query joins tables to access restaurant names and prices of each.



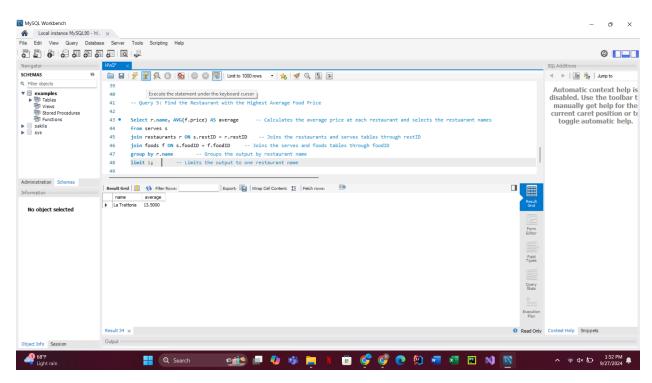
Query 2: Calculates the maximum price of an item at each restaurant. The query joins tables to access the restaurant names and food prices.



Query 3: Counts the number of food items served at each restaurant and joins the table to access restaurant names.



Query 4: Calculate the average price of foods served by each chef. The query joins tables to access prices and the chef's corresponding restaurants.



Query 5: Returns the restaurant with the highest average prices. The query joins tables to access the restaurant names and prices of each.

-- Query 1: Average Price of Foods at Each Restaurant

Select r.name, AVG(f.price) AS average -- Calculates the average price at each restaurant and selects the restaurant names

from serves s

join restaurants r ON s.restID = r.restID -- Joins the restaurants and serves tables through restID

join foods f ON s.foodID = f.foodID -- Joins the serves and foods tables through foodID

group by r.name; -- Groups the output by restaurant name

-- Query 2: Maximum Food Price at Each Restaurant

Select r.name, max(f.price) AS maximum -- Calculates the maximum price at each restaurant and selects the restaurant names

from serves s

join restaurants r ON s.restID = r.restID -- Joins the restaurants and serves tables through restID

join foods f ON s.foodID = f.foodID -- Joins the serves and foods tables through foodID

group by r.name; -- Groups the output by restaurant name

-- Query 3: Count of Different Foods Served at Each Restaurant

Select r.name, count(s.foodID) as count -- Calculates the amount of items at each restaurant and selects the restaurant names

from serves s

join restaurants r ON s.restID = r.restID -- Joins the restaurants and serves tables through restID

group by r.name; -- Groups the output by restaurant name

-- Query 4: Average Price of Food Served by Each Chef

Select w.chefID, AVG(f.price) AS average -- Calculates the average price of food for each chef and selects the chefIDs

from works w

join serves s ON w.restID = s.restID -- Joins the works and serves tables through restID

join restaurants r ON s.restID = r.restID -- Joins the restaurants and serves tables through restID

join foods f ON s.foodID = f.foodID -- Joins the foods and serves tables through foodID

group by w.chefID; -- Groups the output by ChefID

-- Query 5: Find the Restaurant with the Highest Average Food Price

Select r.name, AVG(f.price) AS average -- Calculates the average price at each restaurant and selects the restaurant names

from serves s

join restaurants r ON s.restID = r.restID -- Joins the restaurants and serves tables through restID

join foods f ON s.foodID = f.foodID -- Joins the serves and foods tables through foodID

group by r.name -- Groups the output by restaurant name

limit 1; -- Limits the output to one restaurant name