DB Assignment 2 Katrina Cwiertniewicz 9/26/2024

Data type datetime field type for servescsv./date_sold was found using MySQl Data Types (Documentation).

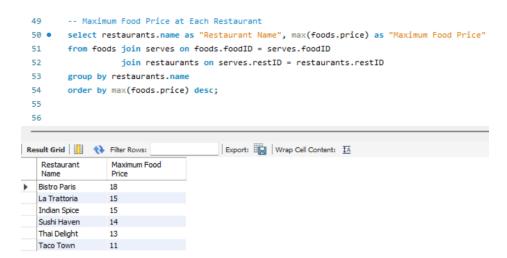
1. Average Price of Foods at Each Restaurant

This query selects the columns' restaurant name and food prices while aggregating food prices for their average. It joins foods to restaurants through the foreign keys included with serves. The query then groups by restaurant names and orders by average food price ascending.



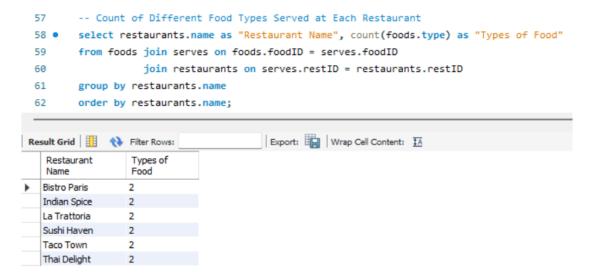
2. Maximum Food Price at Each Restaurant

This query selects the columns' restaurant name and food prices while aggregating food prices for their maximum. It joins foods to restaurants through the foreign keys included with serves. The query then groups by restaurant names and orders by maximum food price descending.



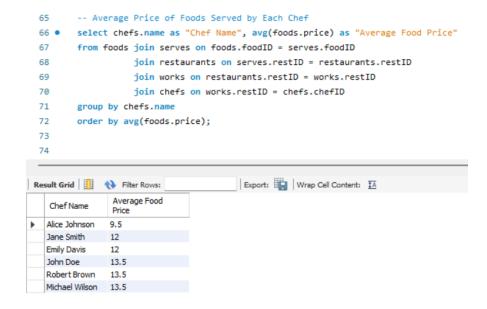
3. Count of Different Food Types Served at Each Restaurant

This query selects the column's restaurant name and food types while aggregating food types for its count. It joins foods to restaurants through the foreign keys included with serves. The query then groups by restaurant names and orders by restaurant names alphabetically.



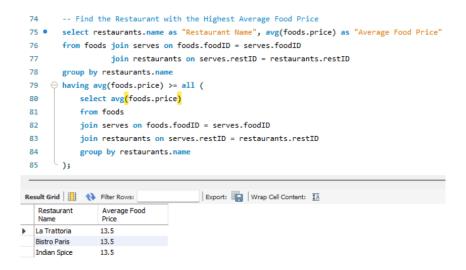
4. Average Price of Foods Served by each Chef

This query selects the columns' chef's name and food prices while aggregating food prices for its average. It joins foods to chefs through the foreign keys included with serves and works. The query then groups by chef names and orders by average food price ascending.



5. Find the Restaurant with the Highest Average Food Price

This query selects the columns' restaurant name and food prices while aggregating food prices for their average. It joins foods to restaurants through the foreign keys included with serves. The query then groups by restaurant names and uses having to subquery for the highest average restaurants by using >= all. This is found by selecting average food prices and joining foods to restaurants and group by restaurant names again.



6. Determine which chef has the highest average price of foods served at the restaurants where they work. Include the chef's name, the average food price, and the names of the restaurants where the chef works. Sort the results by the average food price in descending order.

This query selects the columns' chef's name and food prices while aggregating food prices for its average and restaurant names. It joins chefs to foods through the foreign keys included with serves and works. The query then groups by chef and restaurant names and orders by average food price descending. For this problem, I was able to find the chef with the highest average price at each restaurant but not the overall average of restaurants combined for each chef.

