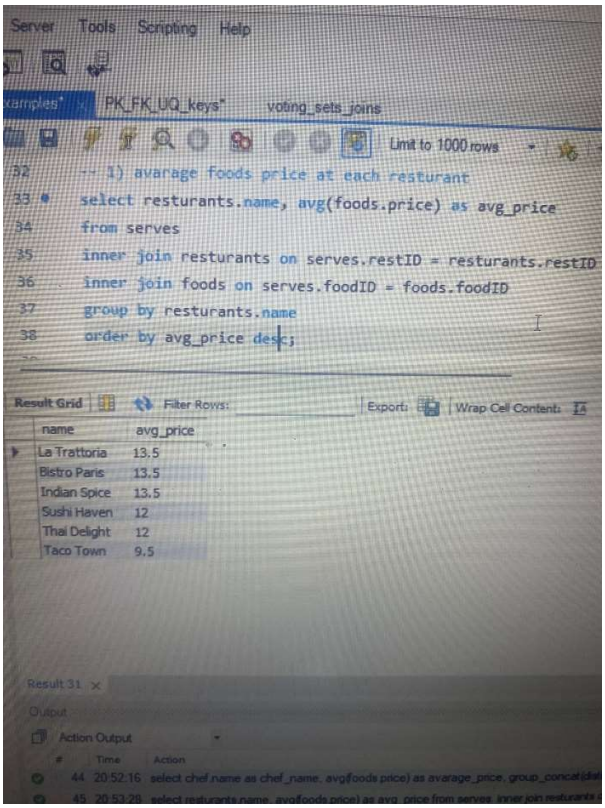
## Assignment two:

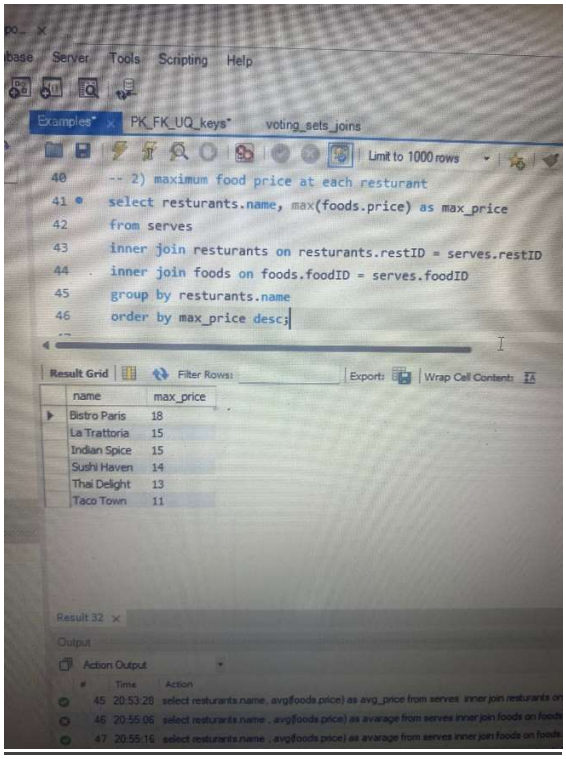
### 1) Average Price of Foods at Each Restaurant

This query calculates the average price of foods served at each restaurant. It joins the serves, restaurants, and foods tables to gather the necessary data, groups the results by restaurant name, and computes the average food price for each restaurant. The results are ordered in descending order so that the restaurant with the highest average price appears first.



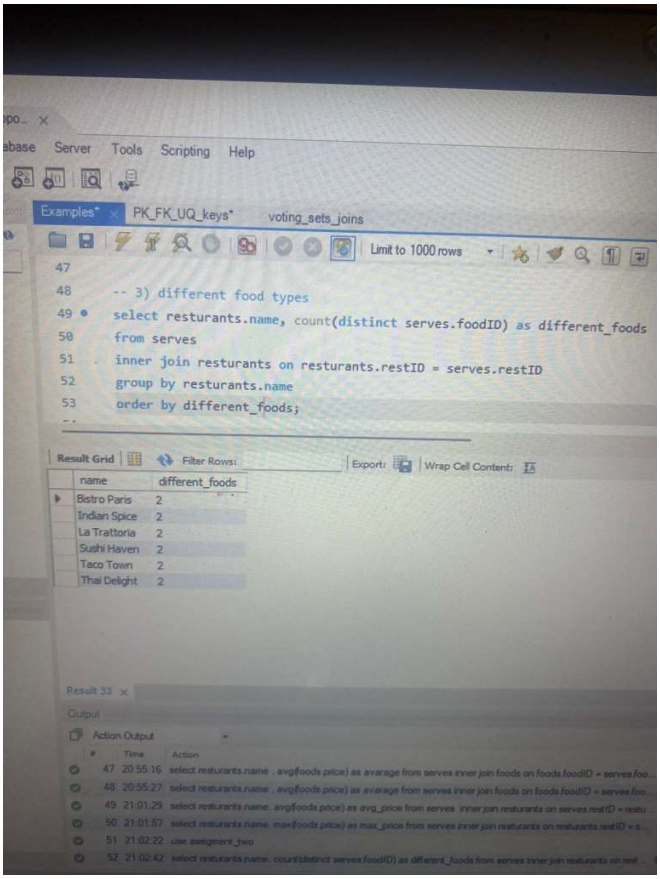
2) **Maximum Food Price at Each Restaurant**

This query finds the maximum food price at each restaurant. It uses similar joins as the previous query, but instead of calculating an average, it uses the max function to determine the highest price of food items served at each restaurant.



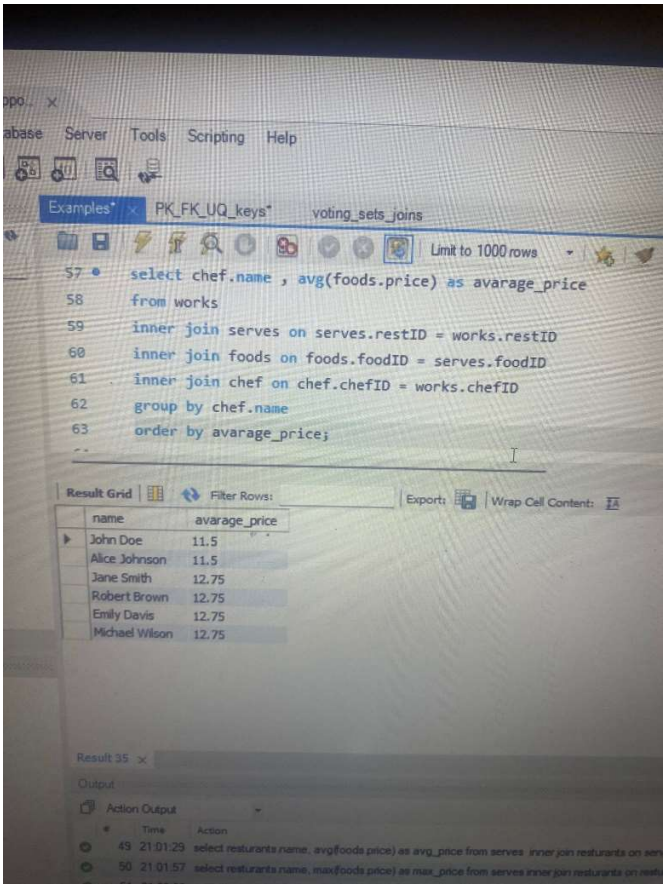

3) **Count of Different Food Types Served at Each Restaurant**

This query counts the number of different food items served at each restaurant. It joins the serves and restaurants tables and uses count(distinct) to ensure that only unique food items are counted. The results are grouped by restaurant name.




## 4) <u>Average Price of Foods Served by Each Chef</u>

This query calculates the average price of foods served by each chef. It joins the works, serves, foods, and chef tables to get the relevant data, groups the results by chef name, and computes the average food price for each chef.

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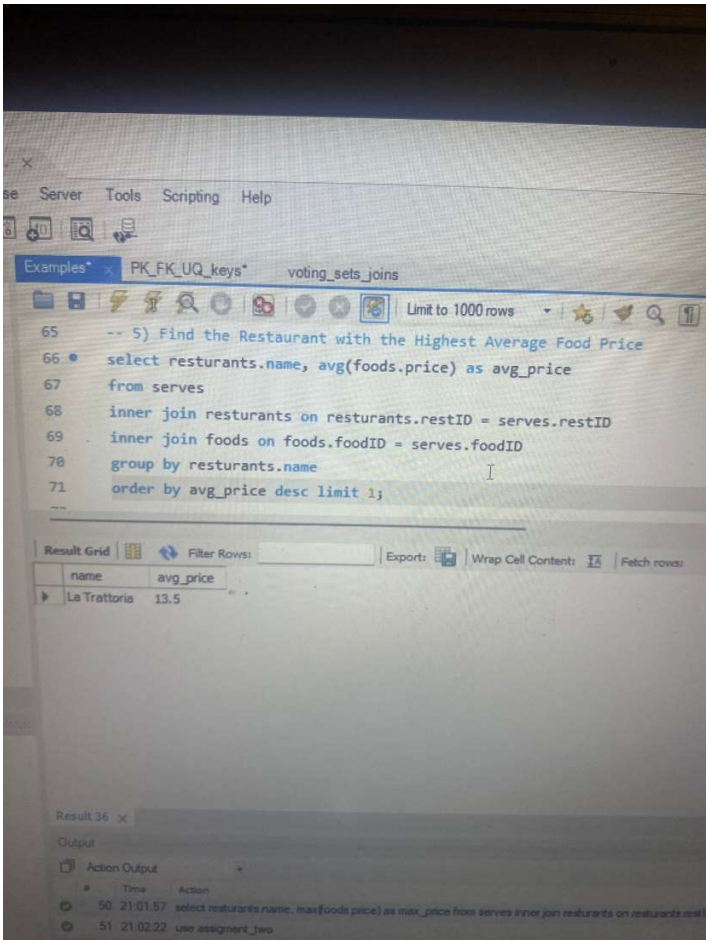
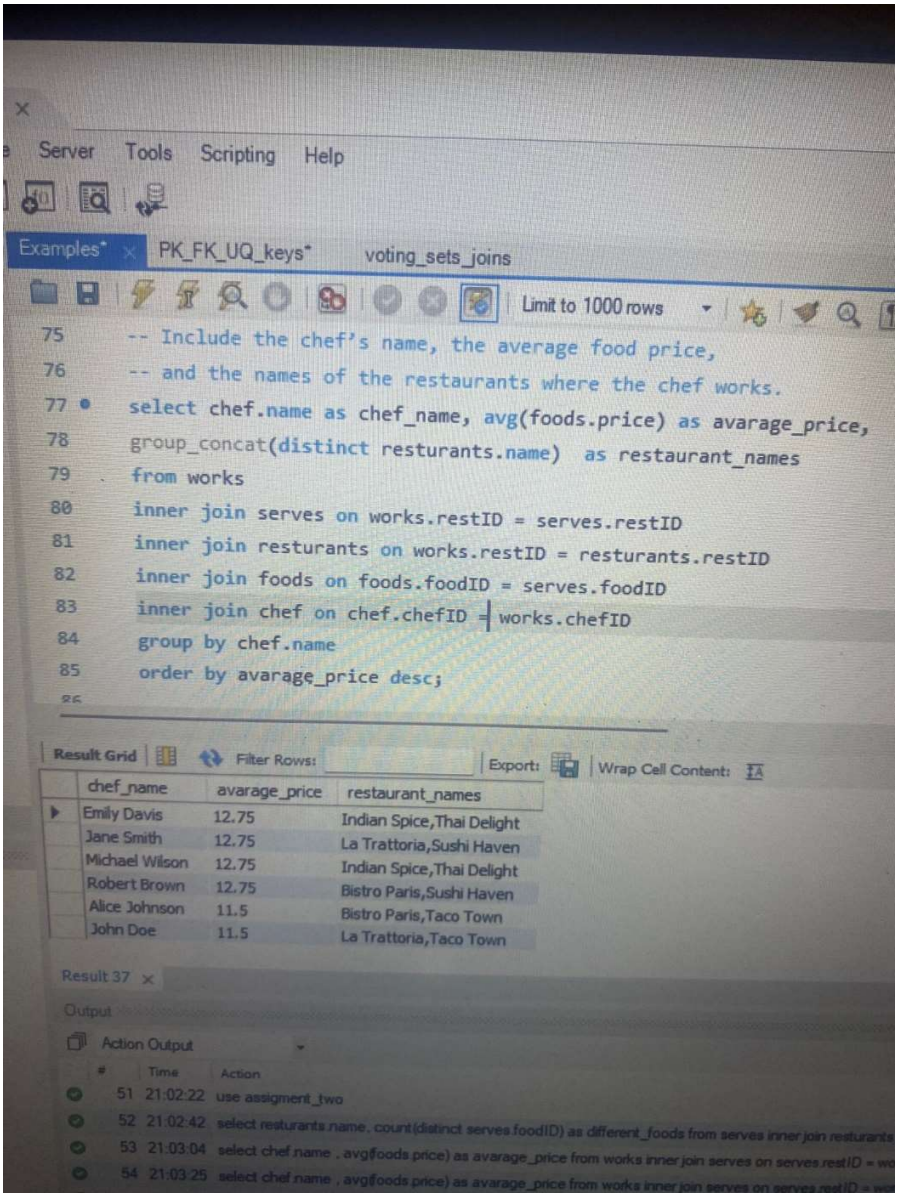
## 5) Find the Restaurant with the Highest Average Food Price

This query identifies the restaurant with the highest average food price. It calculates the average food price for each restaurant (similar to query 1) but limits the results to only one restaurant by using LIMIT 1 after ordering the results in descending order




6) **Extra Credit: Determine which chef has the highest average price of the 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 finds the chef with the highest average food price from the restaurants where they work. It joins multiple tables to gather the necessary information, calculates the average price of foods served at each restaurant a chef works at, and uses GROUP_CONCAT to list the names of the restaurants associated with each chef. The results are grouped by chef name and ordered in descending order based on the average food price.


Server Tools Scripting Help
Examples* PK_FK_UQ_keys* voting_sets_joins
Limit to 1000 rows
75 -- Include the chef's name, the average food price,
76 -- and the names of the restaurants where the chef works.
77 select chef.name as chef_name, avg(foods.price) as avarage_price,
78 group_concat(distinct resturants.name) as restaurant_names
79 from works
80 inner join serves on works.restID = serves.restID
81 inner join resturants on works.restID = resturants.restID
82 inner join foods on foods.foodID = serves.foodID
83 inner join chef on chef.chefID = works.chefID
84 group by chef.name
85 order by avarage_price desc;
Result Grid Filter Rows: Export: Wrap Cell Content:
chef_name avarage_price restaurant_names
Emily Davis 12.75 Indian Spice,Thai Delight
Jane Smith 12.75 La Trattoria,Sushi Haven
Michael Wilson 12.75 Indian Spice,Thai Delight
Robert Brown 12.75 Bistro Paris,Sushi Haven
Alice Johnson 11.5 Bistro Paris,Taco Town
John Doe 11.5 La Trattoria,Taco Town
Result 37
Output
Action Output
# Time Action
51 21:02:22 use assigment_two
52 21:02:42 select resturants.name, count(distinct serves.foodID) as different_foods from serves inner join resturants
53 21:03:04 select chef.name , avg(foods.price) as avarage_price from works inner join serves on serves.restID = wo
54 21:03:25 select chef.name , avg(foods.price) as avarage_price from works inner join serves on serves.restID = wo