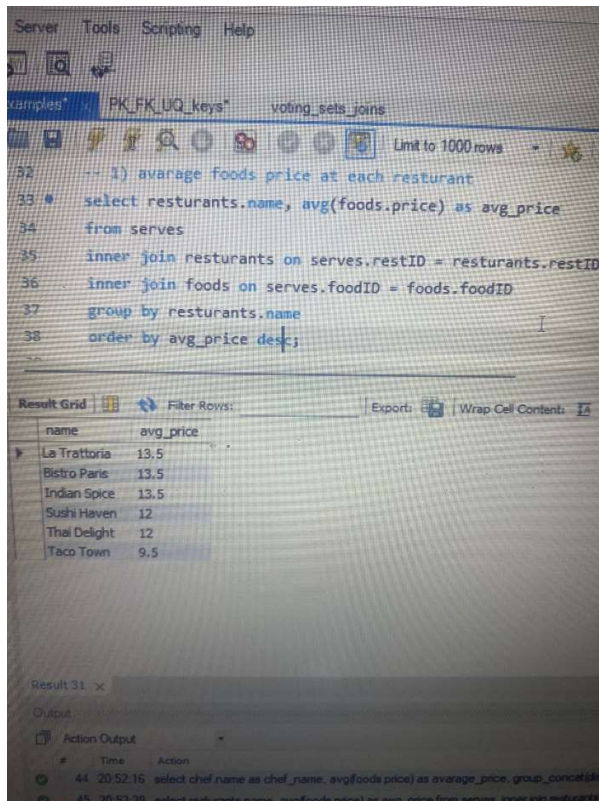


Assignment two:

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.



The screenshot shows a database query editor with a menu bar (Server, Tools, Scripting, Help) and a toolbar. The query editor displays the following SQL query:

```
-- 1) average foods price at each restaurant
select restaurants.name, avg(foods.price) as avg_price
from serves
inner join restaurants on serves.restID = restaurants.restID
inner join foods on serves.foodID = foods.foodID
group by restaurants.name
order by avg_price desc;
```

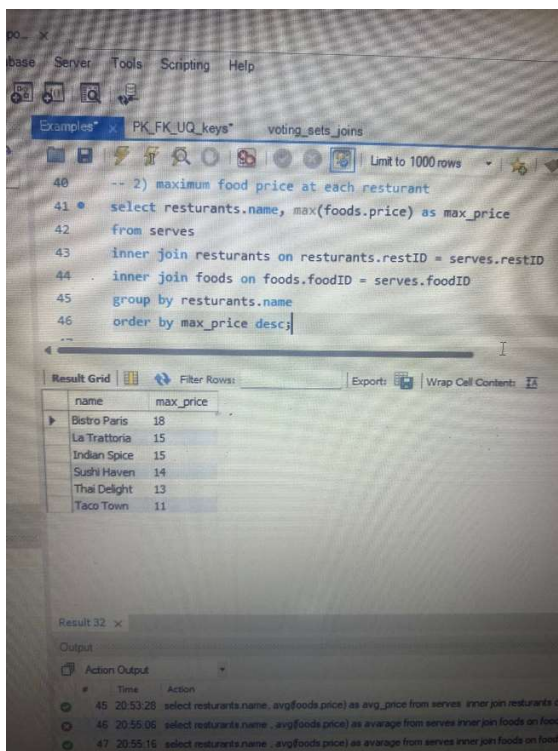
Below the query editor, the "Result Grid" shows the results of the query. The results are displayed in a table with two columns: "name" and "avg_price". The results are ordered in descending order of average price.

name	avg_price
La Trattoria	13.5
Bistro Paris	13.5
Indian Spice	13.5
Sushi Haven	12
Thai Delight	12
Taco Town	9.5

At the bottom of the screenshot, the "Action Output" pane shows the execution log, including the time taken for the query (20:52:16) and the action performed (select chef name as chef_name, avg(foods price) as average_price, group_concat(chef_name) as chef_names from serves inner join restaurants on serves.restID = restaurants.restID inner join foods on serves.foodID = foods.foodID group by restaurants.name order by average_price desc;).

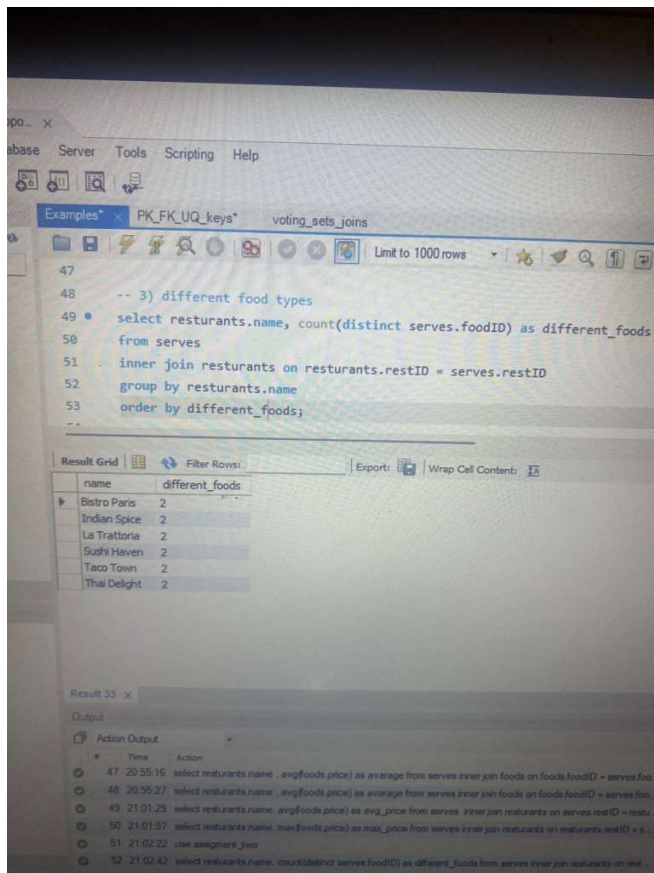
2) Maximum Food Price at Each Restaurant

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.



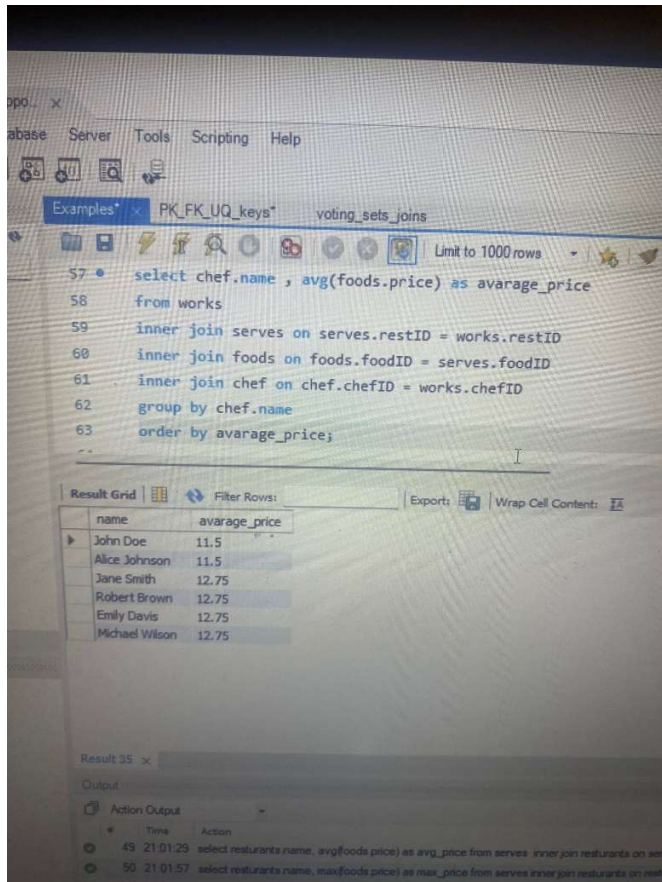
3) Count of Different Food Types Served at Each Restaurant

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.



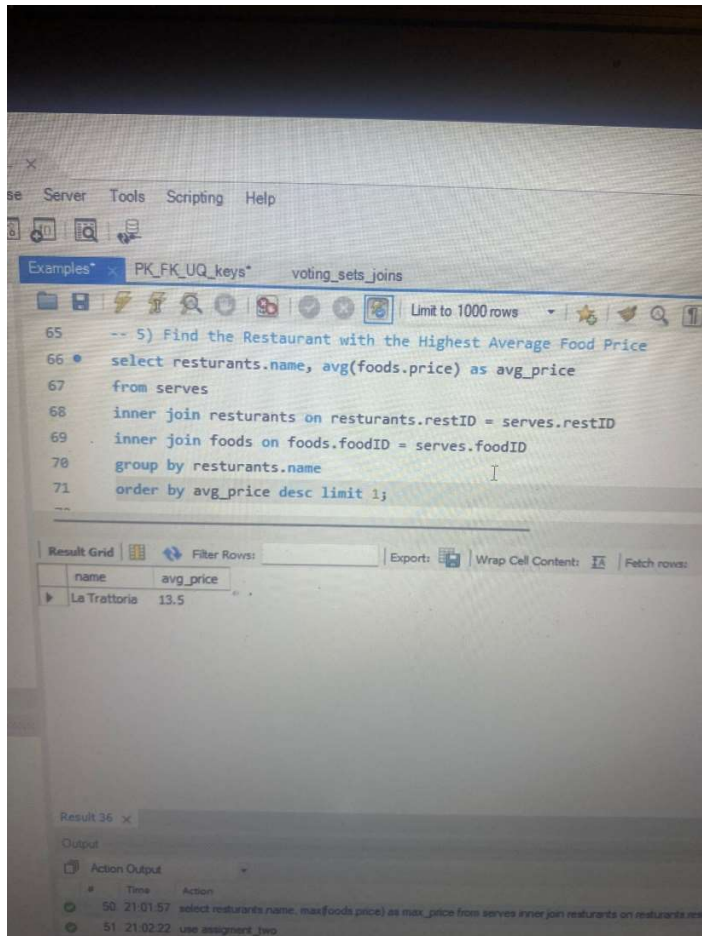
4) Average Price of Foods Served by Each Chef

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.



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* x 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

	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 x

Output

Action Output

#	Time	Action
51	21:02:22	use assignment_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 , avgfoods price) as avarage_price from works inner join serves on serves.restID = wo
54	21:03:25	select chef name , avgfoods price) as avarage_price from works inner join serves on serves.restID = wo