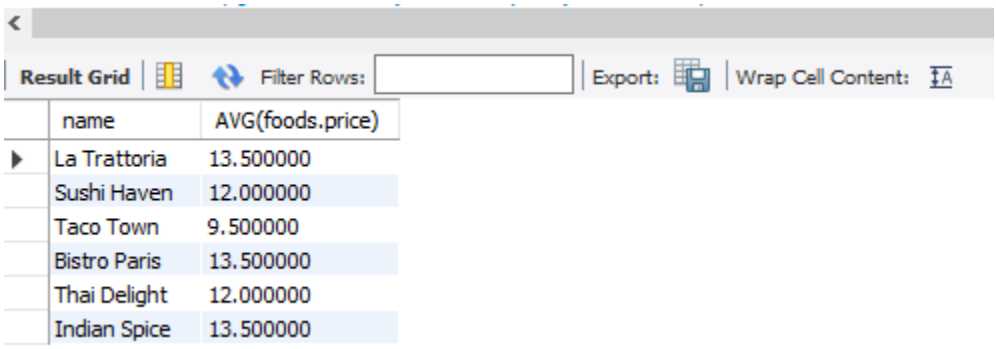
DB Assignment 2

Date: 30 Sept 2025
GitHub Repo:
Problem 1 – Average Price of Foods at Each Restaurant
SQL Query:

```
SELECT restaurants.name, AVG(foods.price)
FROM restaurants, serves, foods
WHERE restaurants.restID = serves.restID
  AND serves.foodID = foods.foodID
GROUP BY restaurants.name;
```

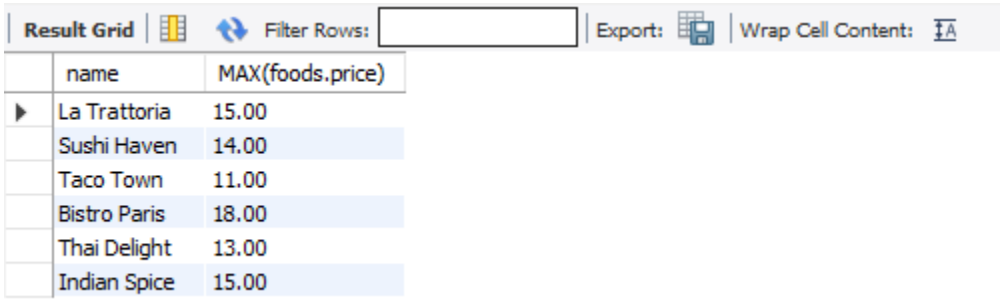


name	AVG(foods.price)
La Trattoria	13.500000
Sushi Haven	12.000000
Taco Town	9.500000
Bistro Paris	13.500000
Thai Delight	12.000000
Indian Spice	13.500000

Explanation: This groups foods by restaurant and uses AVG(price) to get the average price per restaurant.

Problem 2 – Maximum Food Price at Each Restaurant
SQL Query:

```
SELECT restaurants.name, MAX(foods.price)
FROM restaurants, serves, foods
WHERE restaurants.restID = serves.restID
  AND serves.foodID = foods.foodID
GROUP BY restaurants.name;
```

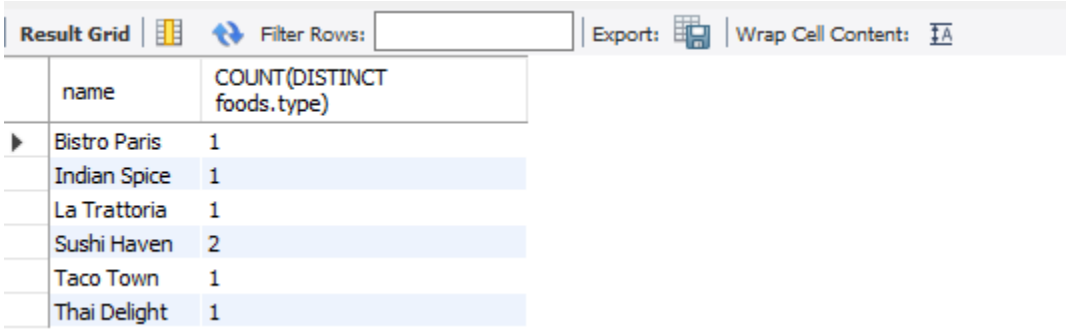

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	MAX(foods.price)
La Trattoria	15.00
Sushi Haven	14.00
Taco Town	11.00
Bistro Paris	18.00
Thai Delight	13.00
Indian Spice	15.00

Explanation: This groups foods by restaurant and uses MAX(price) to get the highest food price sold at each restaurant.

Problem 3 – Count of Different Food Types Served at Each Restaurant
SQL Query:

```
SELECT restaurants.name, COUNT(DISTINCT foods.type)
FROM restaurants, serves, foods
WHERE restaurants.restID = serves.restID
  AND serves.foodID = foods.foodID
GROUP BY restaurants.name;
```


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	COUNT(DISTINCT foods.type)
Bistro Paris	1
Indian Spice	1
La Trattoria	1
Sushi Haven	2
Taco Town	1
Thai Delight	1

Explanation: This query counts the distinct food types per restaurant using COUNT(DISTINCT type).

Problem 4 – Average Price of Foods Served by Each Chef
SQL Query:

```
SELECT chefs.name, AVG(foods.price)
FROM chefs, works, serves, foods
WHERE chefs.chefID = works.chefID
  AND works.restID = serves.restID
  AND serves.foodID = foods.foodID
GROUP BY chefs.name;
```

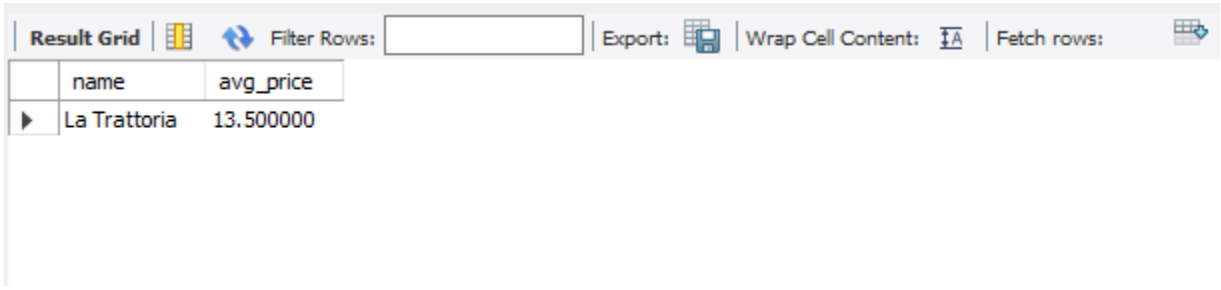

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	AVG(foods.price)
John Doe	11.500000
Jane Smith	12.750000
Alice Johnson	11.500000
Robert Brown	12.750000
Emily Davis	12.750000
Michael Wilson	12.750000

Explanation: This query connects chefs to their restaurants (via works) and then to foods (via serves) to calculate each chef's average food price.

Problem 5 – Restaurant with the Highest Average Food Price
SQL Query:

```
SELECT restaurants.name, AVG(foods.price) AS avg_price
FROM restaurants, serves, foods
WHERE restaurants.restID = serves.restID
  AND serves.foodID = foods.foodID
GROUP BY restaurants.name
ORDER BY avg_price DESC
LIMIT 1;
```


Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	avg_price
La Trattoria	13.500000

Explanation: This query calculates average price per restaurant and orders them so the highest is first. LIMIT 1 keeps only the top restaurant.