- DB Assignment 2
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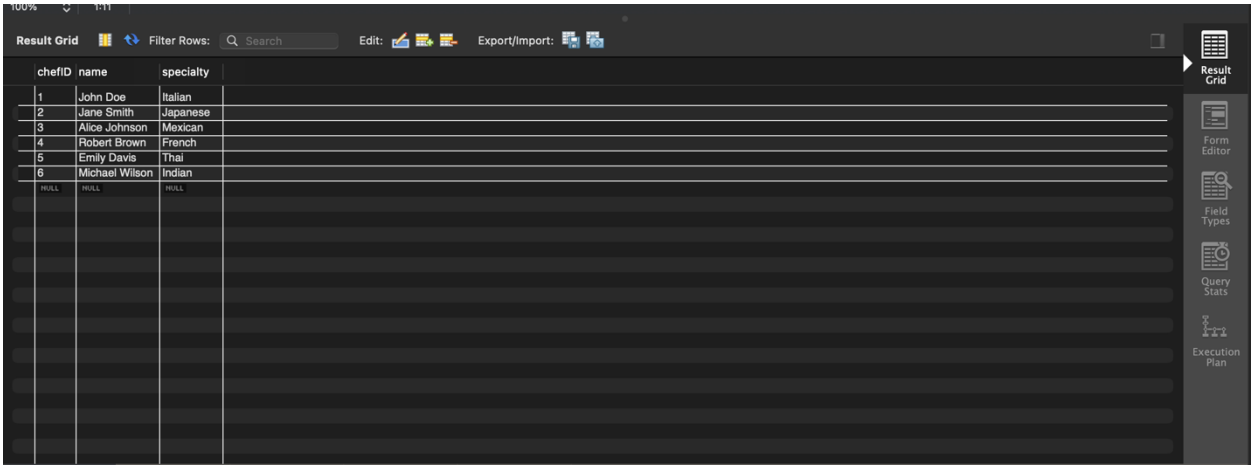
- **Sep 23**

```
SELECT *
FROM chefs;
```

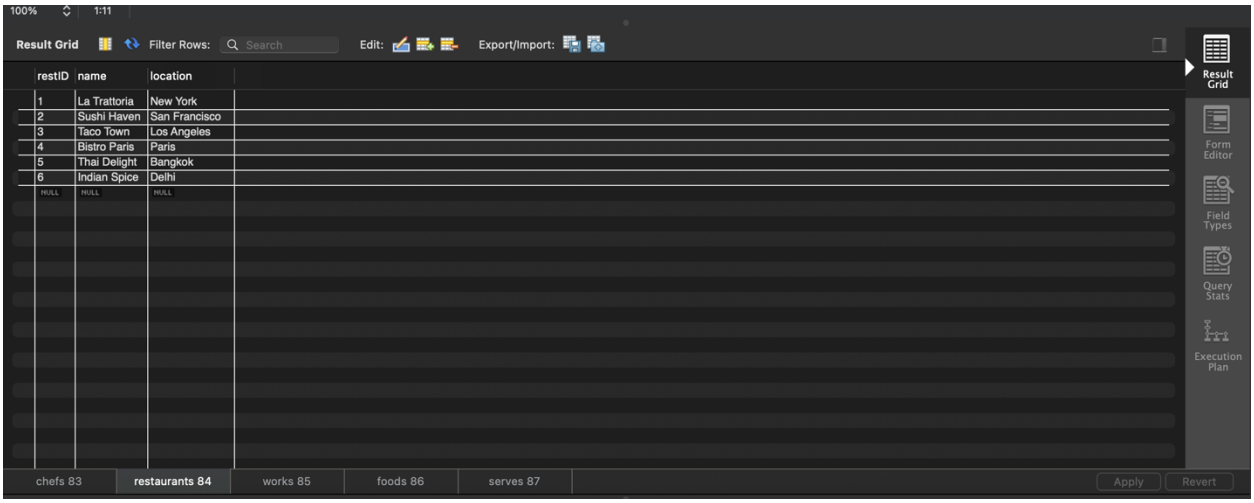
Explanation:
Shows all the chefs from the "chefs" table. It includes the ID, name, and specialty of each chef. It helps to list the entire data of chefs.



```
SELECT *
FROM restaurants;
```

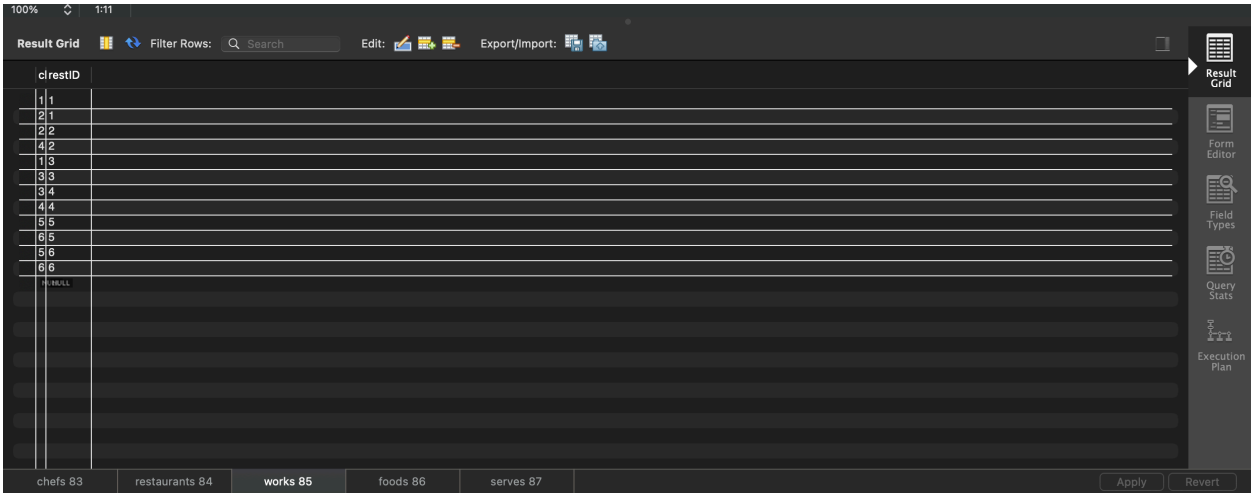
Explanation:

All the restaurants from the "restaurants" table. It lists the ID, name, and location of each restaurant. It’s useful for getting a full list of restaurants.



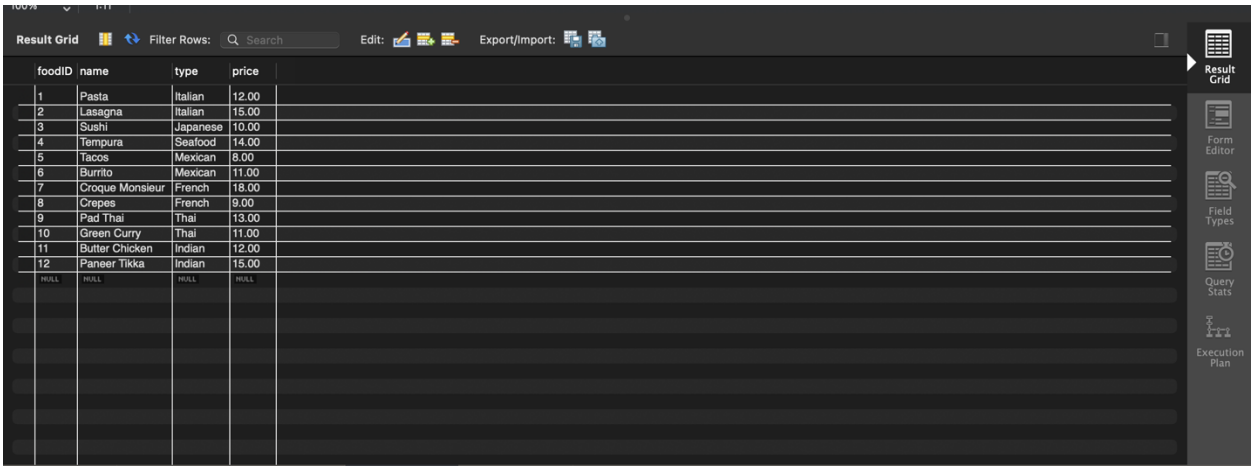
```
SELECT *
FROM works;
```

Explanation:
Shows chefs and the restaurants they work in. It uses the "works" table to link the chef's ID with the restaurant's ID



```
SELECT *
FROM foods;
```

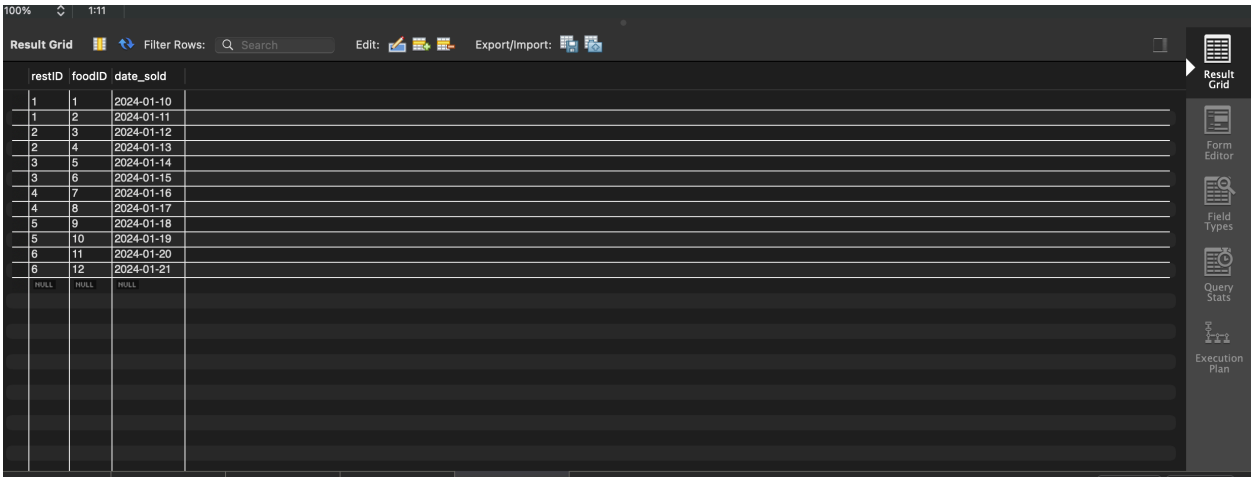
Explanation:
Lists all the food items in the "foods" table, showing their name, type (like dessert or main course), and price.



foodID	name	type	price
1	Pasta	Italian	12.00
2	Lasagna	Italian	15.00
3	Sushi	Japanese	10.00
4	Tempura	Seafood	14.00
5	Tacos	Mexican	8.00
6	Burrito	Mexican	11.00
7	Croque Monsieur	French	18.00
8	Crepes	French	9.00
9	Pad Thai	Thai	13.00
10	Green Curry	Thai	11.00
11	Butter Chicken	Indian	12.00
12	Paneer Tikka	Indian	15.00
NULL	NULL	NULL	NULL

```
SELECT *
FROM serves;
```

Explanation:
Shows which food items are served in which restaurants, including the date they were sold. It uses the "serves" table.



restID	foodID	date_sold
1	1	2024-01-10
1	2	2024-01-11
2	3	2024-01-12
2	4	2024-01-13
3	5	2024-01-14
3	6	2024-01-15
4	7	2024-01-16
4	8	2024-01-17
5	9	2024-01-18
5	10	2024-01-19
6	11	2024-01-20
6	12	2024-01-21
NULL	NULL	NULL

```sql
SELECT r.name AS restaurant, AVG(f.price) AS avg_price
FROM restaurants r
JOIN serves s ON r.restID = s.restID
JOIN foods f ON s.foodID = f.foodID
GROUP BY r.name;
```

Explanation:

This query calculates the average price of food items served at each restaurant. It groups the results by restaurant name and averages the price.

Restaurant	Average Price
La Trattoria	13.50
Sushi Haven	12.00
Taco Town	9.50
Bistro Paris	13.50
Thai Delight	12.00
Indian Spice	13.50

```sql
SELECT r.name AS restaurant, MAX(f.price) AS max_price
FROM restaurants r
JOIN serves s ON r.restID = s.restID
JOIN foods f ON s.foodID = f.foodID
GROUP BY r.name;
```

Explanation:
This query finds the most expensive food item at each restaurant. It groups the restaurants and finds the highest price for each one.

Restaurant	Max 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

```sql
SELECT r.name AS restaurant, COUNT(DISTINCT f.type) AS food_types_count
FROM restaurants r
JOIN serves s ON r.restID = s.restID
JOIN foods f ON s.foodID = f.foodID
GROUP BY r.name;
```

Explanation:
This query counts how many different types of food each restaurant serves.

Restaurant	Food Types
Bistro Paris	1
Indian Spice	1
La Trattoria	1
Sushi Haven	2
Taco Town	1
Thai Delight	1

```sql
SELECT c.name AS chef, AVG(f.price) AS avg_food_price
FROM chefs c
JOIN works w ON c.chefID = w.chefID
JOIN serves s ON w.restID = s.restID
JOIN foods f ON s.foodID = f.foodID
GROUP BY c.name;
```

Explanation:
This query calculates the average price of the dishes prepared by each chef

Restaurant	Food Types
Bistro Paris	1
Indian Spice	1
La Trattoria	1
Sushi Haven	2
Taco Town	1
Thai Delight	1

```sql
SELECT r.name AS restaurant, AVG(f.price) AS avg_price
FROM restaurants r
JOIN serves s ON r.restID = s.restID
JOIN foods f ON s.foodID = f.foodID
GROUP BY r.name
ORDER BY avg_price DESC
LIMIT 1;
```

Explanation:
This query finds the restaurant with the highest average food price. It ranks restaurants by average price and shows the one with the highest value.

	Restaurant	Average Price	
	La Trattoria	13.50	