

## Sample Queries

- Names of all customers who have placed an order with a restaurant owned by a specific person in the past week and used a coupon.

```
1 SELECT C.fname AS 'First Name', C.lname AS 'Last Name'
2 FROM CUSTOMER C, ORDERS O, RESTAURANT R, OWNED W, OWNER N
3 WHERE C.customer_username = O.customer_username -- joining CUSTOMER-ORDERS
4       AND O.rest_vat = R.rest_vat -- joining ORDERS-RESTAURANT
5       AND R.rest_vat = W.rest_vat -- joining RESTAURANT-OWNED
6       AND W.owner_ssn = N.ssn -- joining OWNED-OWNER
7       AND N.fname = 'Kelsey' -- checking owner first name
8       AND N.lname = 'Spencer' -- checking owner last name
9       AND O.order_date BETWEEN DATE_SUB(DATE('2023-01-29'), INTERVAL 1 WEEK) AND NOW() -- taking all data for the last week
10      AND O.coupon_id IS NOT NULL -- ensuring a coupon was used
```

100% 62:10

Result Grid Filter Rows: Search Export:

First Name	Last Name
Stacey	Clark
Tyler	Gonzalez
Paul	Fox
William	Williams
Melissa	Davis
Daniel	Shelton

- What is the total number of each menu item that has been ordered from restaurants owned by a specific person, along with the average rating for each item.

```
1 SELECT I.name as 'Item Name', COUNT(I.item_barcode) as 'Item Count', AVG(R.rating) as 'Average Rating'
2 FROM MENU_ITEM I, OWNED, OWNER, RATING R
3 WHERE I.rest_vat = OWNED.rest_vat -- joining the MENU_ITEM with the OWNED table
4       AND OWNED.owner_ssn = OWNER.ssn -- joining the OWNED with the OWNER table
5       AND I.item_barcode = R.item_barcode -- joining the MENU_ITEM with the RATING table
6       AND OWNER.fname = 'Stephanie' -- checking to have first name Raymond
7       AND OWNER.lname = 'Brown' -- checking to have the last name Golden
8 GROUP BY I.item_barcode -- grouping by the item
```

100% 1:1

Result Grid Filter Rows: Search Export:

Item Name	Item Count	Average Rating
Chicken wings	1	2.00000
Souvlaki	1	1.00000
Barbecue Ribs	1	2.00000
Tuna sashimi	1	1.00000
Salmon nigiri	1	3.00000
Fish and chips	1	4.00000
Chilli con carne	1	2.00000
Pork belly buns	2	3.50000
California maki	1	1.00000

- Obtain all menu items with "chicken" in their name and an average rating of at least 4.0.

```

1 SELECT I.name as 'Item Name', AVG(R.rating) as 'Average Rating'
2 FROM MENU_ITEM I, RATING R
3 WHERE I.item_barcode = R.item_barcode -- joining ITEM-RATING
4 AND I.name LIKE '%chicken%' -- checking if the item has chicken in it's name
5 GROUP BY I.item_barcode -- grouping by the item
6 HAVING AVG(R.rating) >= 4.0 -- checking if the item has an avg rating >= 4.0
7

```

100% 1:1

Result Grid Filter Rows: Search Export:

Item Name	Average Rating
Chicken Fajitas	4.00000
Chicken Fajitas	5.00000
Chicken milanese	5.00000
Teriyaki Chicken donburi	4.00000
Chicken wings	4.00000
Teriyaki Chicken donburi	4.00000
Chicken wings	5.00000
Chicken milanese	4.00000
Chicken Fajitas	5.00000
Chicken wings	5.00000
Teriyaki Chicken donburi	5.00000
Chicken Fajitas	5.00000

- Names of all drivers who are available to take on new orders, including their average rating.

```

1 SELECT D.fname as 'First Name', D.lname as 'Last Name', AVG(R.rating) as "Driver's Average Rating"
2 FROM DRIVER D, RATING R
3 WHERE D.ssn = R.driver_ssn -- joining DRIVER-RATING
4 AND D.status = 1 -- checking if the driver is available
5 GROUP BY D.ssn -- grouping by driver

```

100% 1:1

Result Grid Filter Rows: Search Export:

First Name	Last Name	Driver's Average Rating
Thomas	Hamilton	4.00000
Joseph	Powell	3.50000
Evelyn	Parrish	4.00000
Mary	Briggs	4.50000
Jeff	Shaw	3.40000
Maria	Hall	4.00000
Justin	Hill	3.50000
Monica	Ryan	3.50000
Mark	Ortega	3.33333
Andre	Nguyen	2.00000
Jessica	Mccarty	3.00000
Kyle	Rocha	2.00000
Michael	Bradley	3.25000
Kayla	Espinoza	3.00000
Paul	Lopez	4.00000
Brittany	Boyd	3.33333
Alexandra	Meyer	2.50000
Brandy	Harper	5.00000
Tim	Ginsburg	4.00000

5. What is the total number of orders placed by each customer at restaurants owned by a specific person, along with the average rating received by each customer.

```

1 SELECT C.fname AS 'First Name', C.lname AS 'Last Name',
2       COUNT(O.receipt_num) AS 'Total Number of Orders', AVG(R.rating) AS 'Average Rating Received'
3 FROM CUSTOMER C, ORDERS O, OWNED W, OWNER N, RATING R
4 WHERE C.customer_username = O.customer_username -- joining CUSTOMER-ORDERS
5       AND C.customer_username = R.customer_username -- joining CUSTOMER-RATING
6       AND W.owner_ssn = N.ssn -- joining OWNED-OWNER
7       AND O.rest_vat = W.rest_vat -- joining ORDERS-OWNED
8       AND R.rest_vat IS NOT NULL -- ensuring that there is a rating from customer to restaurant
9       AND N.fname = 'Francis' -- checking for owner's first name
10      AND N.lname = 'Valdez' -- checking for owner's last name
11 GROUP BY C.customer_username -- grouping by customers

```

100% 1:1

Result Grid Filter Rows: Search Export:

First Name	Last Name	Total Number of Ord...	Average Rating Received
Kathy	Davis	4	4.00000
Joshua	Lowe	3	2.00000
Destiny	Cook	4	2.00000
Richard	Johnson	2	2.50000
Misty	Anderson	4	1.00000
Justin	Cooper	3	3.33333
Bradley	Warren	4	5.00000
Nichole	Price	12	3.00000

6. Names of all customers who have placed an order within the past week and used a coupon.

```

1 SELECT C.fname AS 'First Name', C.lname AS 'Last Name'
2 FROM CUSTOMER C, ORDERS O
3 WHERE C.customer_username = O.customer_username -- joining CUSTOMER-ORDERS
4       AND O.coupon_id IS NOT NULL -- ensuring that the customer used a coupon
5       AND O.order_date >= DATE_SUB(DATE('2023-01-29'), INTERVAL 1 WEEK) -- checking only for the past week
6

```

100% 1:1

Result Grid Filter Rows: Search Export:

First Name	Last Name
Melissa	Davis
Paul	Fox
William	Williams
Albert	Cruz
Thomas	Higgins
Jenna	Smith
Tyler	Gonzalez
Gregory	Lowery
Daniel	Shelton
Daniel	Shelton
Pamela	Hernandez
Stacey	Clark
Stacey	Clark

7. Show all orders currently in transit, along with the driver's rating for each order.

```
1 SELECT O.receipt_num AS 'Order', R.rating AS 'Driver Rating'
2 FROM ORDERS O, RATING R
3 WHERE O.customer_username = R.customer_username
4       AND R.driver_ssn IS NOT NULL -- ensuring the driver has a rating
5       AND O.status = 0 -- ensuring that the orders are in transit
```

100% 1:1

Result Grid Filter Rows: Search Export:

Order	Driver Rating
3569682455	2.0
6985028167	2.0
963287725	2.0
6185894161	3.0
1805864389	5.0
4241711576	5.0
7518873733	5.0
766210876	5.0
3916693575	5.0
7605232877	5.0
7910199026	4.0
1367039307	2.0
2135575316	2.0

8. What is the payment method and status for a specific order, as well as the applied coupon code (if any).

```
1 SELECT O.receipt_num AS 'Order', P.payment_method AS 'Payment Method',
2       P.payment_status AS 'Payment Status', C.coupon_code AS 'Coupon Code'
3 FROM PAYMENT P, ORDERS O, COUPON C
4 WHERE O.receipt_num = P.receipt_num -- joining ORDER-PAYMENT
5       AND C.coupon_id = O.coupon_id -- joining COUPON-ORDERS
6       AND O.receipt_num = 5139665377 -- checking out a specific order
```

100% 1:1

Result Grid Filter Rows: Search Export:

Order	Payment Method	Payment Status	Coupon Code
5139665377	JCB 16 digit	1	MNO264

9. What is the delivery address for a specific order, along with the ratings for the associated restaurant and driver.

```

1 SELECT 0.receipt_num AS 'Order', 0.delivery_address AS 'Delivery Address',
2         R1.rating AS 'Restaurant Rating', R2.rating AS 'Driver Rating'
3 FROM ORDERS 0, RATING R1, RATING R2
4 WHERE 0.customer_username = R1.customer_username -- joining ORDERS-RATING
5        AND 0.customer_username = R2.customer_username -- joining ORDERS-RATING
6        AND R1.rest_vat IS NOT NULL -- ensuring to get only restaurant rating
7        AND R2.driver_ssn IS NOT NULL -- ensuring to get only driver rating
8        AND 0.receipt_num = 5139665377 -- checking for a specific order
9

```

100% 5/9

Result Grid Filter Rows: Search Export:

Order	Delivery Address	Restaurant Rating	Driver Rating
5139665377	325 Tucker Mills East Andre KY 20050	2.0	5.0
5139665377	325 Tucker Mills East Andre KY 20050	2.0	3.0
5139665377	325 Tucker Mills East Andre KY 20050	2.0	5.0
5139665377	325 Tucker Mills East Andre KY 20050	2.0	3.0
5139665377	325 Tucker Mills East Andre KY 20050	1.0	5.0
5139665377	325 Tucker Mills East Andre KY 20050	1.0	3.0
5139665377	325 Tucker Mills East Andre KY 20050	1.0	5.0
5139665377	325 Tucker Mills East Andre KY 20050	1.0	3.0
5139665377	325 Tucker Mills East Andre KY 20050	3.0	5.0
5139665377	325 Tucker Mills East Andre KY 20050	3.0	3.0

10. What is the total number of orders placed by each restaurant, along with the average rating for each restaurant.

```

1 SELECT Re.name as 'Restaurant Name', COUNT(0.receipt_num) AS 'Total Orders',
2        AVG(R.rating) AS 'Restaurant Average Rating'
3 FROM ORDERS 0, RATING R, Restaurant Re
4 WHERE 0.customer_username = R.customer_username -- joining ORDERS-RATING
5        AND Re.rest_vat = R.rest_vat -- joining RESTAURANT-RATING
6        AND R.rest_vat IS NOT NULL -- ensuring there is a rating for the restaurant
7 GROUP BY Re.rest_vat -- grouping by restaurant
8

```

100% 1/8

Result Grid Filter Rows: Search Export:

Restaurant Name	Total Orders	Restaurant Average Rating
Austin LLC	79	4.46835
Weaver, Jimenez and Swanson	136	3.13971
Brown-Joseph	113	3.05310
Jensen, Herrera and Coleman	143	3.27972
Swanson Inc	90	3.17778
Koch LLC	210	3.07619
Calhoun Inc	110	3.32727
Cox LLC	116	2.55172
Randall PLC	129	1.91473
Brown Group	85	3.84706
Smith-Mitchell	74	2.68919
Lynch Inc	68	2.83333
Polas and Sons	45	2.48889

Inserts, Updates & Deletions

## 1 Inserts

```
1 • INSERT INTO CUSTOMER (customer_username, fname, lname, email, phone, address)
2   VALUES
3   ('hendrixjimi', 'Jimi', 'Hendrix', 'jimihendrix@example.com', '6971234765', 'Thiseos 50')
```

```
1 • INSERT INTO DRIVER (ssn, fname, lname, phone, address, status, gender, birth_date)
2   VALUES
3   ('9012839409', 'Saul', 'Hudson', '2298123492', 'Skra 23', 1, 1, '2023-01-24 00:00:00')
4
```

## 2 Updates

```
1 • UPDATE CUSTOMER C
2   SET C.fname = 'John', C.email = 'johnwick@example.net'
3   WHERE C.customer_username = 'jpetererson'
```

```
1 • UPDATE OWNED O
2   SET O.owner_ssn = '151424040'
3   WHERE O.rest_vat = '706027278';
4
```

## 3 Deletions

```
1 • DELETE
2   FROM ORDERS O
3   WHERE O.receipt_num = 5388124402
4
```

```
1 • DELETE
2   FROM DRIVER D
3   WHERE D.fname = 'John'
```