Project Report : List and Description

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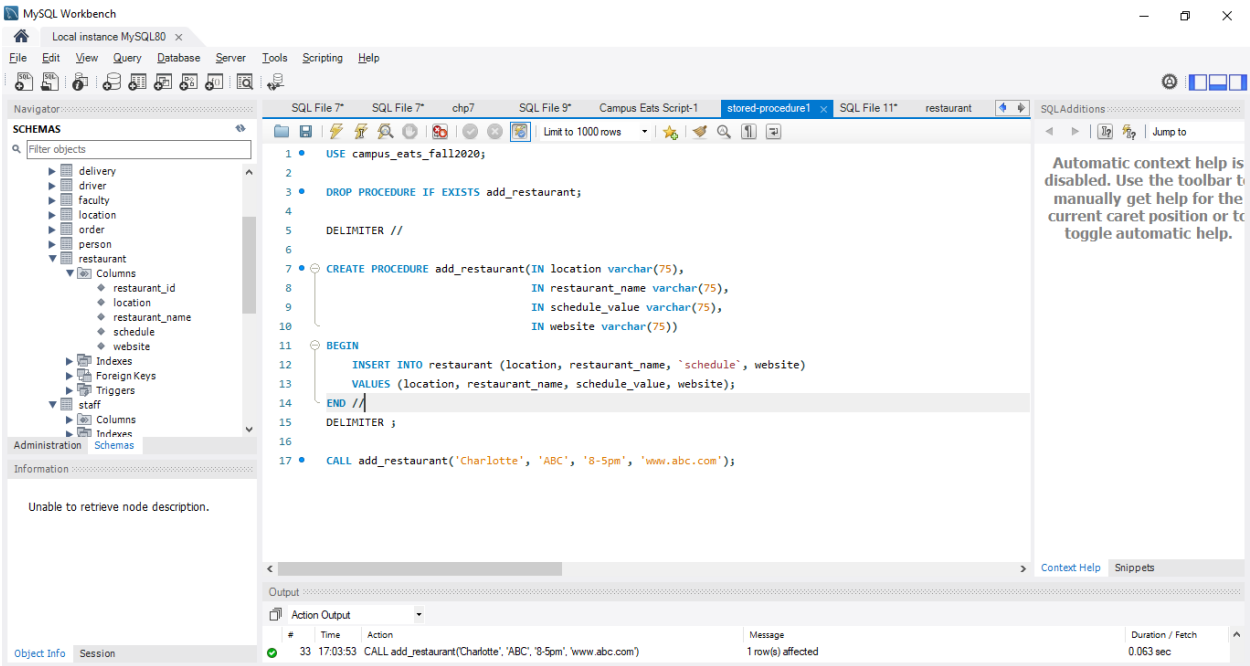
CampusEats is a food delivery app built by team Maverick, we have extended the project by adding a rating system for the restaurants and delivery drivers. We added 3 new tables to the existing 10 tables. The tables are as follows: delivery, driver, faculty, location, order, person, restaurant, staff, student, and vehicle. We added a rating, menu, and menu_order table. Menu_order table is an associative table that sits between menu and order table because of the many to many relationship. We have extended the project further by updating the eerd, adding advanced SQL statements such as stored procedures, views, and functions which are located in the queries folder in Git. We have also added a data dictionary which gives a description of the columns in the database.

Stored Procedure:

1. Name of Stored Procedure: add_restaurant

   Purpose: To add new restaurants to the database

   Code:



Result:

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

restaurant_id	location	restaurant_name	schedule	website
93	72392 Hahn Station Apt. 674 ...	Price-Reinger	11am - 11pm	http://stoltenbergmohr.biz/
94	9329 Vesta Harbors Suite 849 ...	Boehm, White and Kilback	9am -10pm	http://www.hillljohnson.com/
95	30248 Eichmann Street Suite 1...	Conroy-O'Keefe	10am - 9pm	http://hermiston.org/
96	1070 Green Forks Selenaland, ...	Wiegand LLC	9am -10pm	http://www.streich.com/
97	20073 Clyde Ways Suite 898 ...	Donnelly and Sons	10am - 9pm	http://cummings.net/
98	215 Altenwerth Mall Apt. 621 ...	McDermott, Senger and Ferry	10am - 9pm	http://www.collins.net/
99	1105 Liza Shores Apt. 158 Her...	Grimes-Lakin	9am -10pm	http://terry.net/
100	88626 Louvenia Fork Lake Max...	Mertz Ltd	9am -10pm	http://ortiz.com/
101	Charlotte	ABC	8-5pm	www.abc.com

restaurant 1

2. Name of Stored Procedure: add_vehicle

Purpose: To add a new vehicle to the database.

Code:

```
USE campus_eats_fall2020;

DROP PROCEDURE IF EXISTS add_vehicle;

DELIMITER //

CREATE PROCEDURE add_vehicle(IN vehicle_plate varchar(75),
                             IN model varchar(75),
                             IN make varchar(75))
BEGIN
    INSERT INTO vehicle (vehicle_plate, model, make)
    VALUES (vehicle_plate, model, make);
END //
DELIMITER ;

CALL add_vehicle('XYZ', 'test', 'test');
```

Result:

Result Grid | Filter Rows: | Edit

vehicle_id	vehicle_plate	model	make
15	2767	d	Bugatti
16	4184	j	Mercedes
17	6489	l	BMW
18	4260	j	Audi
19	6455	d	Mercedes
20	7009	q	Toyota
21	XYZ	test	test
NULL	NULL	NULL	NULL

vehicle 1

3. Name of Stored Procedure: customer_restaurant_rating

Purpose: gets the average rating of a customer from a restaurant when inputted a person_id and restaurant_id

Code:

```
DROP PROCEDURE IF EXISTS customer_restaurant_rating;

DELIMITER //

CREATE PROCEDURE customer_restaurant_rating(IN p_id INT,
                                            IN r_id INT)
BEGIN
    SELECT person_id, ROUND(AVG(food_rating), 2) AS avg_rating
    FROM `order`
    INNER JOIN rating
    USING (order_id)
    WHERE person_id = p_id AND restaurant_id = r_id;
END //
DELIMITER ;

CALL customer_restaurant_rating(1, 1);
```

Result:

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

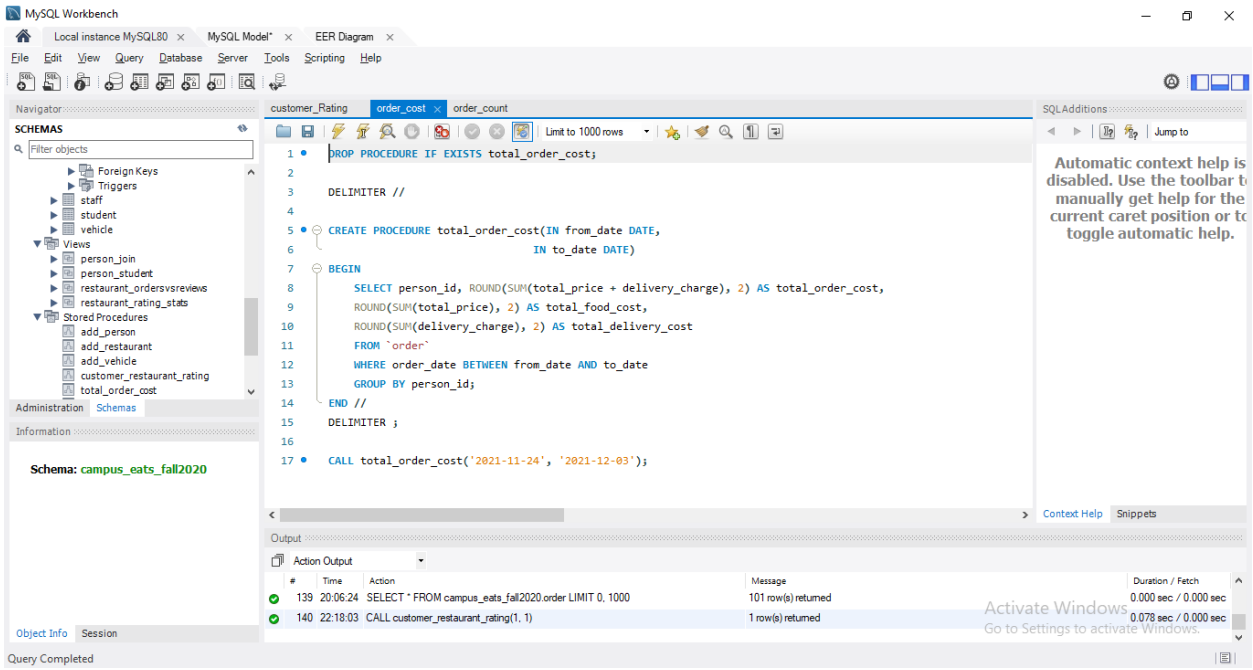
person_id	avg_rating
1	4.00

4. Name of Stored Procedure: total_order_cost

Purpose: given a data range, the procedure return orders placed in that timeframe

Code:

gets the total costs



Result:

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

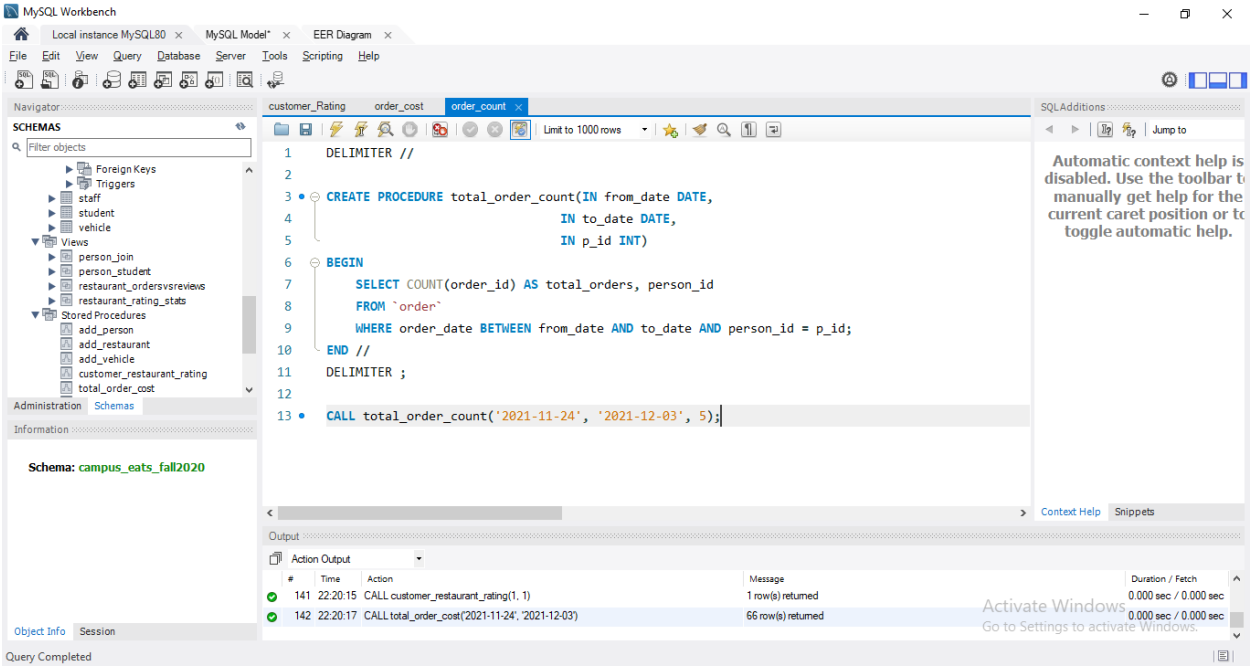
person_id	total_order_cost	total_food_cost	total_delivery_cost
3	19.33	11.91	7.42
5	20	13.76	6.24
6	10.23	5.4	4.83
7	22.62	14.05	8.57
9	23.82	17.1	6.72
10	14.53	12.71	1.82
11	11.16	3.9	7.26
14	13.29	12.08	1.21
17	11.46	6.61	4.85

Result 1

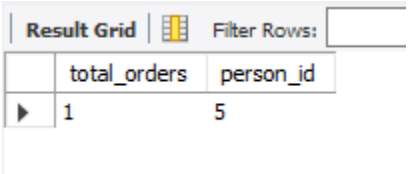
5. Name of Stored Procedure: total_order_count

Purpose: Given a date range and person_id, it will return the total number of orders placed by that customer in that time frame.

Code:



Result:



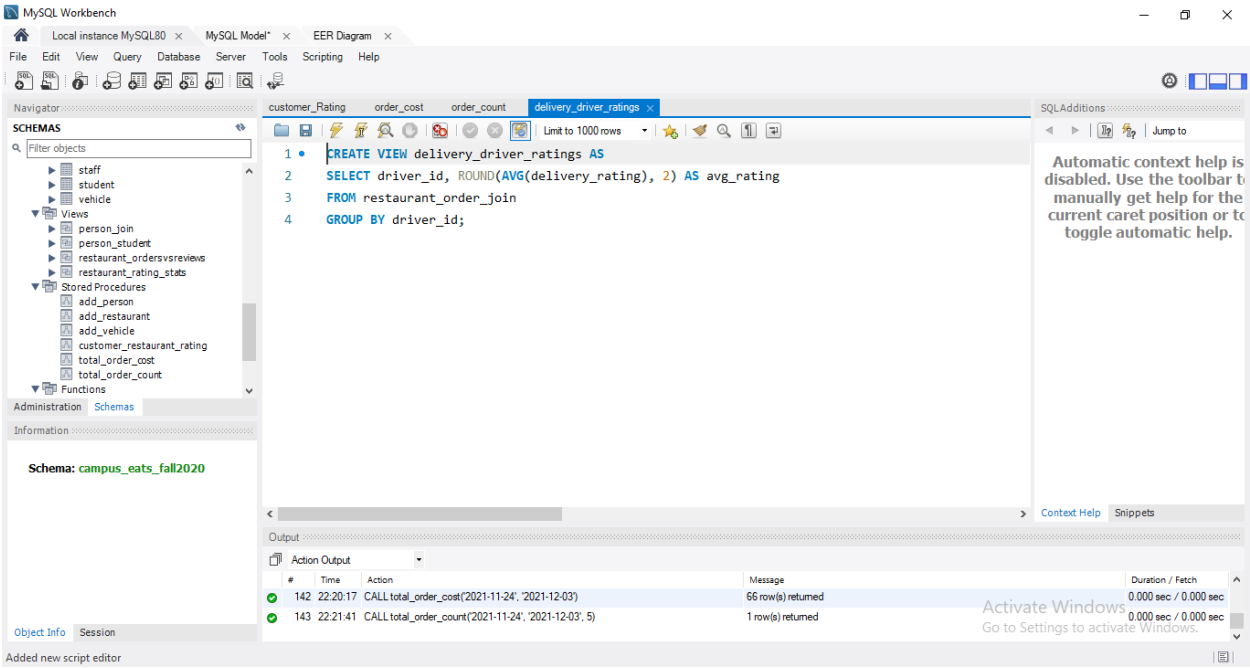
total_orders	person_id
1	5

Views:

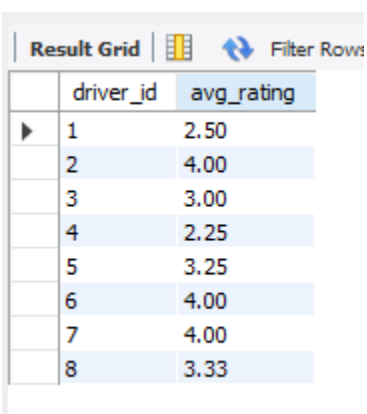
1. Name: delivery_driver_ratings

Purpose: It shows the average performance of the driver according to the ratings given by the customer.

Code:



Result:

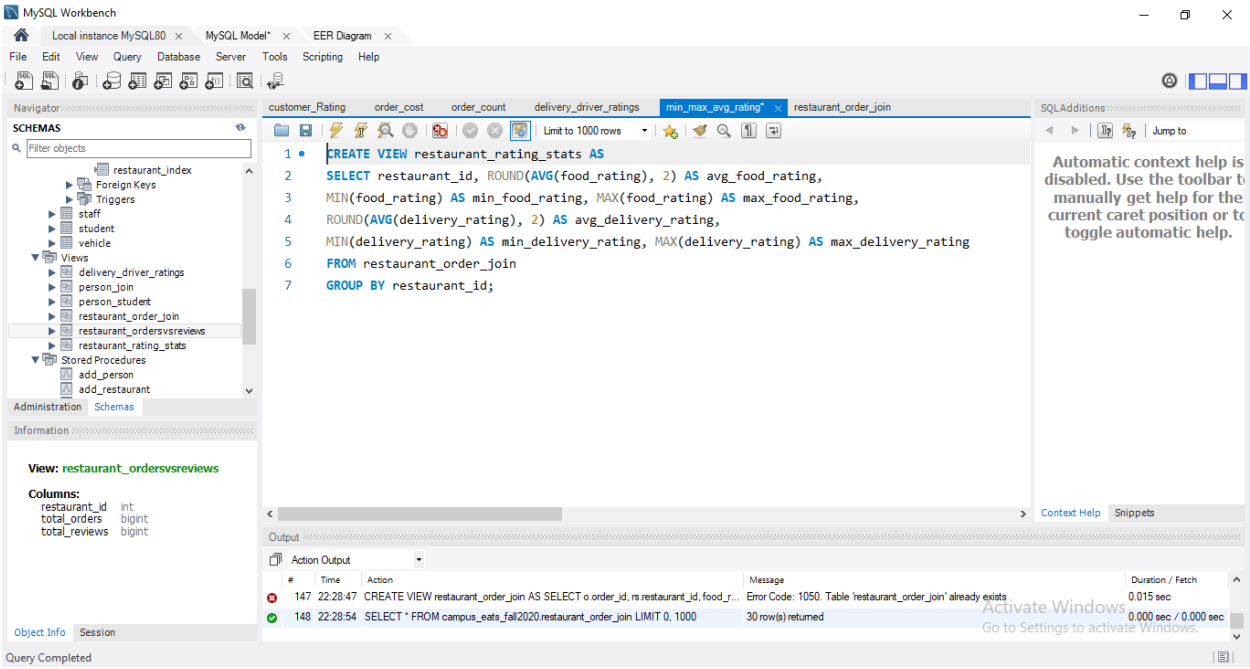


driver_id	avg_rating
1	2.50
2	4.00
3	3.00
4	2.25
5	3.25
6	4.00
7	4.00
8	3.33

2. Name: restaurant_rating_stats

Purpose: For all the restaurants, it will shows the avg, min and max for the delivery rating and restaurant rating.

Code:



Result:

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

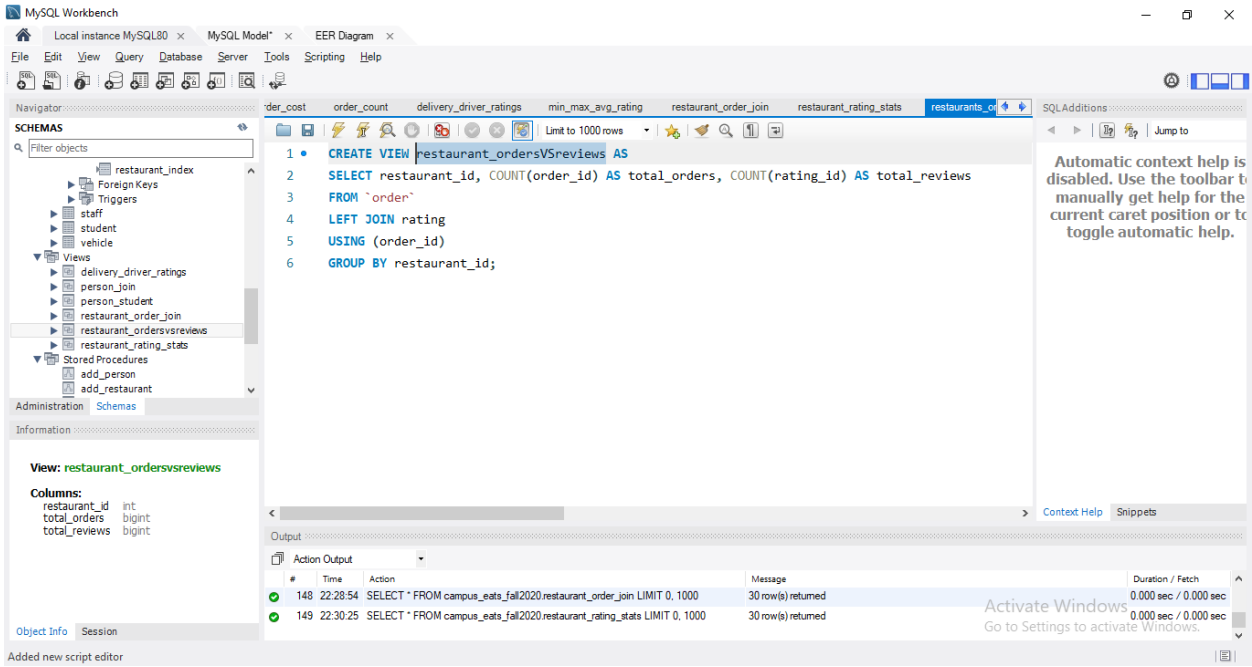
restaurant_id	avg_food_rating	min_food_rating	max_food_rating	avg_delivery_rating	min_delivery_rating	max_delivery_rating
1	4.00	4	4	2.00	2	2
2	3.00	3	3	5.00	5	5
3	5.00	5	5	1.00	1	1
4	3.00	3	3	2.00	2	2
5	2.00	2	2	3.00	3	3
6	1.00	1	1	4.00	4	4
7	5.00	5	5	5.00	5	5
8	4.00	4	4	3.00	3	3
9	3.00	3	3	2.00	2	2

rating_stats 1

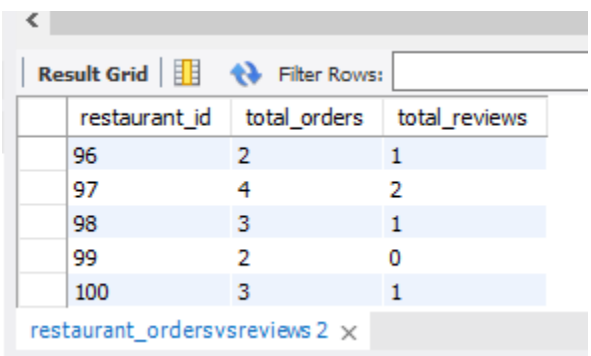
3. Name: restaurant_ordersVSreviews

Purpose: It will give a statistic of total number of orders and total number of views for the restaurant.

Code:



Result:



Result Grid | Filter Rows:

restaurant_id	total_orders	total_reviews
96	2	1
97	4	2
98	3	1
99	2	0
100	3	1

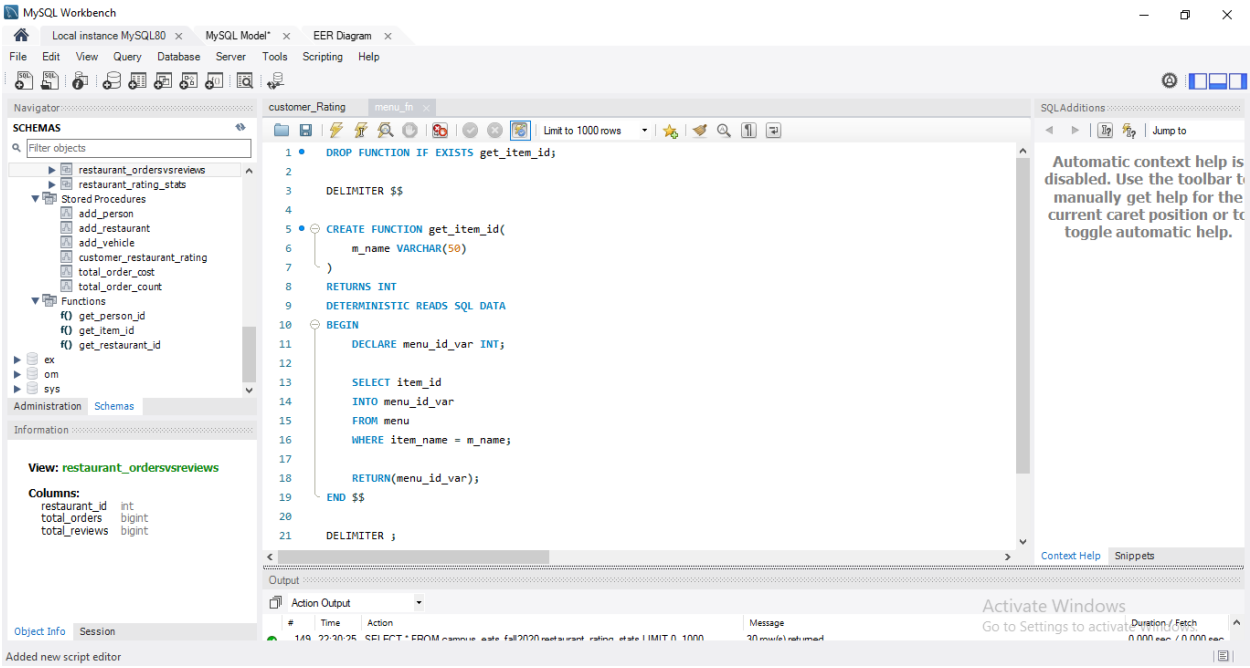
restaurant_ordersvsreviews 2

Functions:

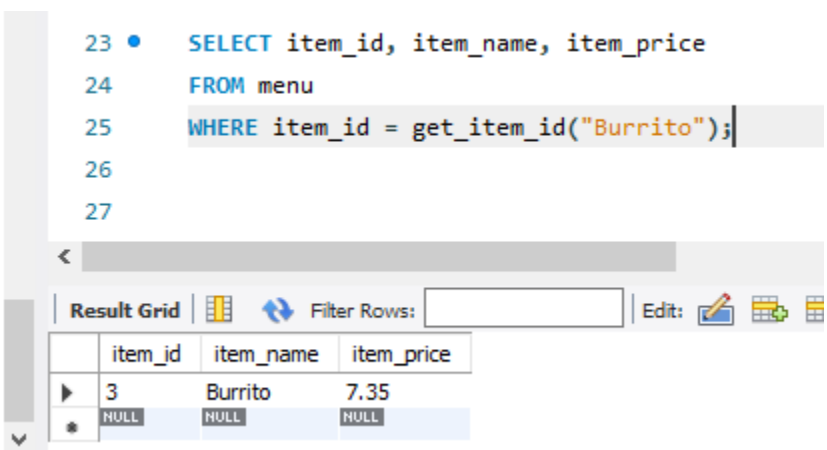
1. Name: get_item_id

   Purpose: When inputted the name of the item, it will return the id corresponding to the item.

   Code:



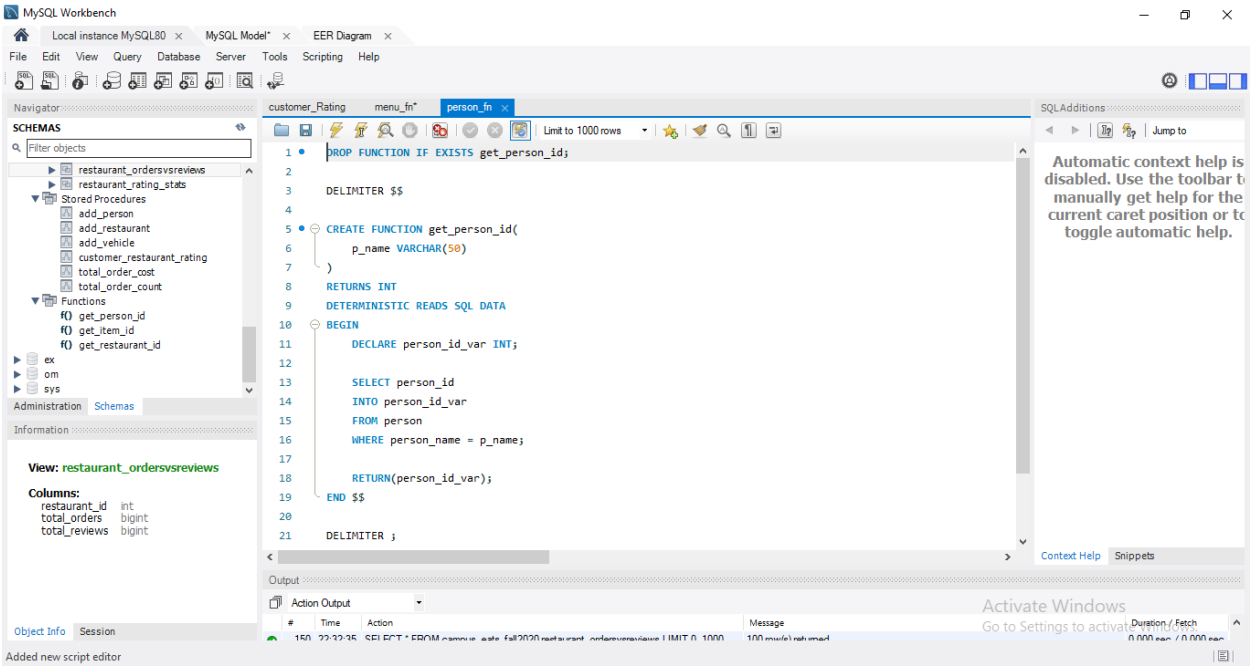
Result:



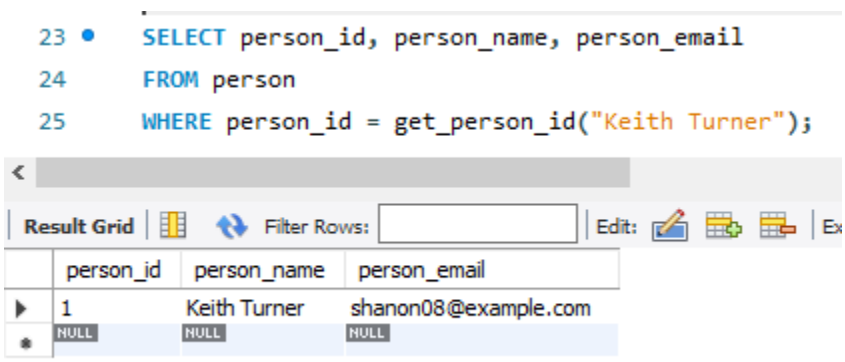
2. Name: get_person_id

Purpose: When inputted the name of person, it will return the id of the corresponding person.

Code:



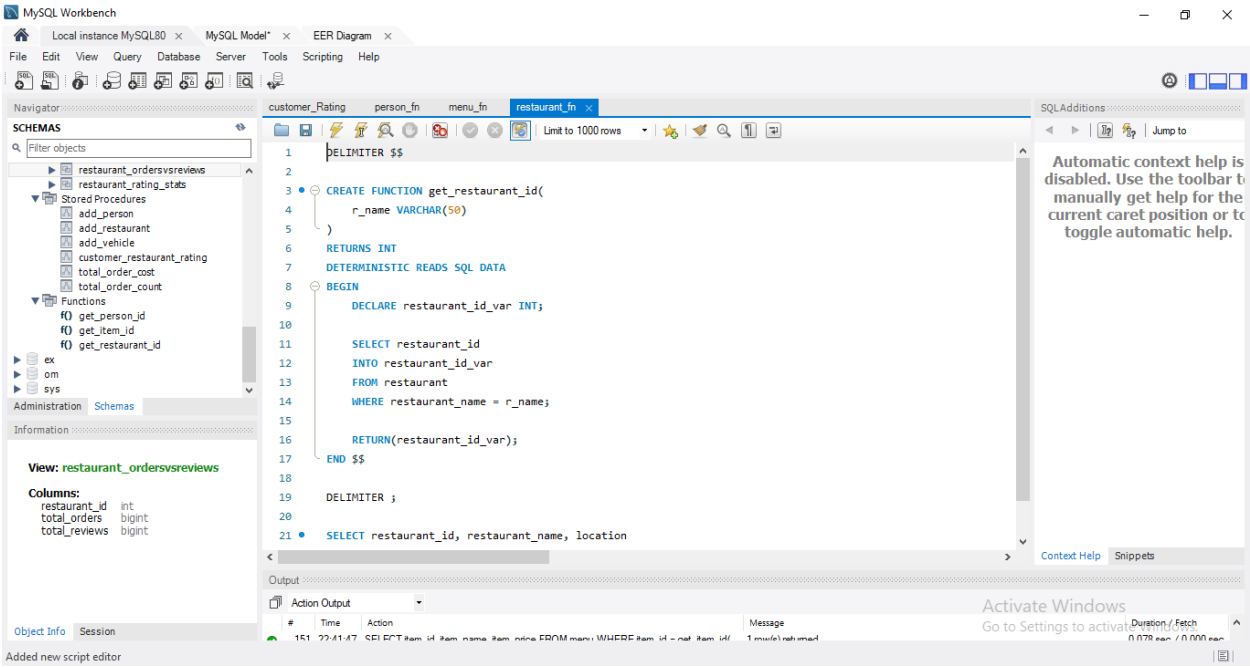
Results:



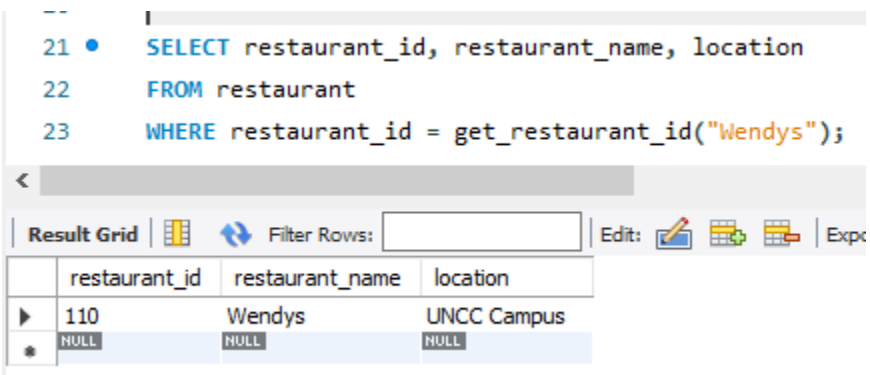
3. Name: get_restaurant_id

Purpose: When inputted the name of the restaurant, it will return the restaurant id.

Code:


MySQL Workbench
Local instance MySQL80
MySQL Model*
EER Diagram
File Edit View Query Database Server Tools Scripting Help
customer_Rating
person_fn
menu_fn
restaurant_fn
Limit to 1000 rows
DELIMITER $$
CREATE FUNCTION get_restaurant_id(
r_name VARCHAR(50)
)
RETURNS INT
DETERMINISTIC READS SQL DATA
BEGIN
DECLARE restaurant_id_var INT;
SELECT restaurant_id
INTO restaurant_id_var
FROM restaurant
WHERE restaurant_name = r_name;
RETURN(restaurant_id_var);
END $$
DELIMITER ;
SELECT restaurant_id, restaurant_name, location
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Output
Action Output
Activate Windows
Go to Settings to activate Windows.
Added new script editor

Results:

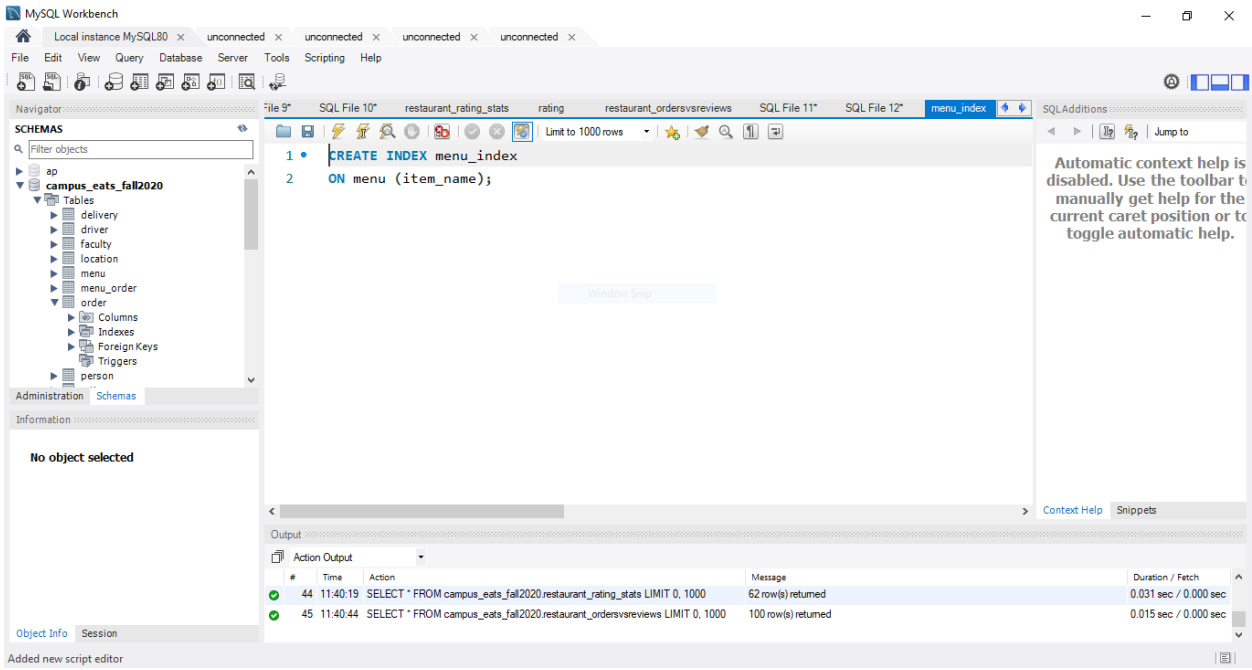

SELECT restaurant_id, restaurant_name, location
FROM restaurant
WHERE restaurant_id = get_restaurant_id("Wendys");
Result Grid
Filter Rows:
Edit:
restaurant_id
restaurant_name
location
110
Wendys
UNCC Campus
NULL
NULL
NULL

Indexes:

1. Name: menu_index

Purpose: To improve the query performance, we have indexed the item_name column since it will be used multiple times while placing an order.

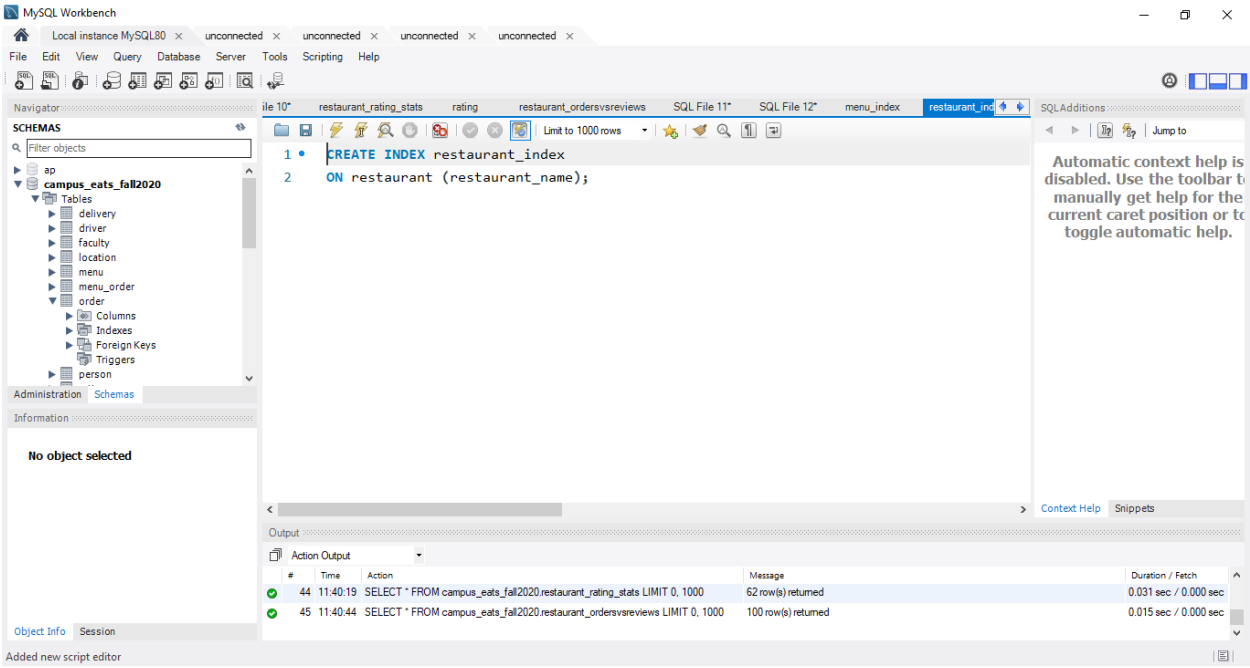
Code:



2. Name: restaurant_index

Purpose: To improve the query performance, we have indexed the restaurant_name since it will be used multiple times while placing an order.

Code:


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
ap
campus_eats_fall2020
Tables
delivery
driver
faculty
location
menu
menu_order
order
Columns
Indexes
Foreign Keys
Triggers
person
Administration Schemas
Information
No object selected
Object Info Session
restaurant_rating_stats
rating
restaurant_ordersvsreviews
SQL File 11*
SQL File 12*
menu_index
Limit to 1000 rows
CREATE INDEX restaurant_index
ON restaurant (restaurant_name);
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
44 11:40:19 SELECT * FROM campus_eats_fall2020.restaurant_rating_stats LIMIT 0, 1000 62 row(s) returned 0.031 sec / 0.000 sec
45 11:40:44 SELECT * FROM campus_eats_fall2020.restaurant_ordersvsreviews LIMIT 0, 1000 100 row(s) returned 0.015 sec / 0.000 sec
Added new script editor