Deliverable 3

1) Load the tables with sufficient test data

Menu Table

INSERT INTO `Menu` VALUES (1, 'Chicken Soup', 'Hot Liquid Soup with Tinge of Chicken and Spices', 7.05, 102),

(2, 'Chicken Nuggets', 'Hot and Crispy Nuggets with some added spices', 5.6, 101),

(3, 'Veggie Delight', 'A mix of boiled veggies with cheese and salad', 8.4, 104),

(4, 'Vegetable Spring Roll', 'Roll consisting of mixed vegetables with crispy wonton wrapper', 8.7, 105),

(5, 'Garden Salad', 'Fresh Romaine Lettuce with added carrots and grape tomatoes', 10.2, 103),

(6, 'Chocolate Lava Cake', 'Lava Cake consisting of Hot Chocolate', 6.8, 106),

(7, 'Chicken Pizza', 'Hot and Soft Pizza with olives and chicken', 10.05, 102),

(8, 'French Fries', 'Hot and Crispy French Fries with Ranch', 3.6, 101),

(9, 'Veg Sub', 'A mix of boiled veggies with salad dressing', 7.6, 104),

(10, 'Beef Spring Roll', 'Roll consisting of beef with crispy wonton wrapper', 11.7, 105),

(11, 'Romaine Salad', 'Fresh Romaine Lettuce with added cheese', 8.2, 103),

(12, 'Chocolate Brownie', 'Brownie with dry fruits topping', 6.8, 106),

(13, 'Chicken Burger', 'Burger consisting of Chicken and Cheese', 7.05, 102),

(14, 'Steak Burger', 'Burger consisting of Steak and Sauce', 12.6, 101),

(15, 'Chocolate Cookies', 'Choco Chip Cookies baked in low flame', 4.4, 104),

(16, 'Orange Chicken', 'Chicken dipped in Orange Sauce', 6.7, 105),

(17, 'SoftDrink', 'Drinks with Ice Cubes', 3.2, 103),

(18, 'Flavoured Yoghurt', 'Yoghurt in different flavours', 4.8, 106);

Menu_Catalog

USE Campus_Eats_Fall2020;

INSERT INTO `Menu_Catalog` VALUES (1, 'Chicken Soup', 'Hot Liquid Soup with Tinge of Chicken and Spices', 7.05, 102),

(2, 'Chicken Nuggets', 'Hot and Crispy Nuggets with some added spices', 5.6, 101),

(3, 'Veggie Delight', 'A mix of boiled veggies with cheese and salad', 8.4, 104),

(4, 'Vegetable Spring Roll', 'Roll consisting of mixed vegetables with crispy wonton wrapper', 8.7, 105),

(5, 'Garden Salad', 'Fresh Romaine Lettuce with added carrots and grape tomatoes', 10.2, 103),

(6, 'Chocolate Lava Cake', 'Lava Cake consisting of Hot Chocolate', 6.8, 106),

(7, 'Chicken Pizza', 'Hot and Soft Pizza with olives and chicken', 10.05, 102),

(8, 'French Fries', 'Hot and Crispy French Fries with Ranch', 3.6, 101),

(9, 'Veg Sub', 'A mix of boiled veggies with salad dressing', 7.6, 104),

(10, 'Beef Spring Roll', 'Roll consisting of beef with crispy wonton wrapper', 11.7, 105),

(11, 'Romaine Salad', 'Fresh Romaine Lettuce with added cheese', 8.2, 103),

(12, 'Chocolate Brownie', 'Brownie with dry fruits topping', 6.8, 106),

(13, 'Chicken Burger', 'Burger consisting of Chicken and Cheese', 7.05, 102),

(14, 'Steak Burger', 'Burger consisting of Steak and Sauce', 12.6, 101),

(15, 'Chocolate Cookies', 'Choco Chip Cookies baked in low flame', 4.4, 104),

(16, 'Orange Chicken', 'Chicken dipped in Orange Sauce', 6.7, 105),

(17, 'SoftDrink', 'Drinks with Ice Cubes', 3.2, 103),

(18, 'Flavoured Yoghurt', 'Yoghurt in different flavours', 4.8, 106);

Order_Rating

insert into `order_rating` values(1, 3, 3, 4, 'Food is ok'),

(2, 3, 5, 6, 'Food is good'),

(3, 3, 8, 9, 'Food is great'),

(4, 3, 10, 8, 'Food is delicious'),

(5, 5, 4, 6, 'Food is good'),

(6, 5, 7, 10, 'Food is delicious'),

(7, 5, 9, 3, 'Food is ok'),

(8, 5, 1, 6, 'Food is great'),

(9, 7, 5, 4,'Food can be better'),

(10, 7, 8, 7,'Food is great'),

(11, 7, 6, 6,'Food is good'),

(12, 7, 2, 9,'Food delivered on time'),

(13, 9, 9, 10, 'Food is tasty and delivered on time'),

(14, 9, 7, 6, 'Food is good'),

(15, 9, 6, 9, 'Food is delicious'),

(16, 9, 3, 5, 'Food is ok');

Order_Status

insert into `order_status` values (1, 'Delivered'),(2, 'On the way'),(3, 'Preparing'),(4, 'Order placed');

Payment

insert into `payments` values (1, 2, 1, 20.63, 7.25),

(2, 4, 2, 16.85, 4.25),

(3, 5, 3, 13.89, 3.85),

(4, 7, 4, 10.54, 2.08), (5, 6, 5, 4.90, 1.87),(6, 10,6, 25.34, 6.45), (7, 15,7, 14.52, 9.01), (8, 19,8, 19.67, 7.05);

Restaurant

INSERT INTO `restaurant` VALUES (101,'9201 University City Blvd','Wendys','11am -10pm','https://www.wendys.com'),

(102,'8917 Johnson Alumni Way','SoVi','7am - 11pm','http://aux.charlotte.edu/dining/dining'),

(103,'901 University City Blvd','Bojangles','8am - 10pm','https://www.bojangles.com/'),

(104,'9025 University Rd, Charlotte','Subway','10am - 10pm','https://order.subway.com/'),

(105,'9025 University Rd, Charlotte','Panda Express','10am - 9pm','https://www.pandaexpress.com/'),

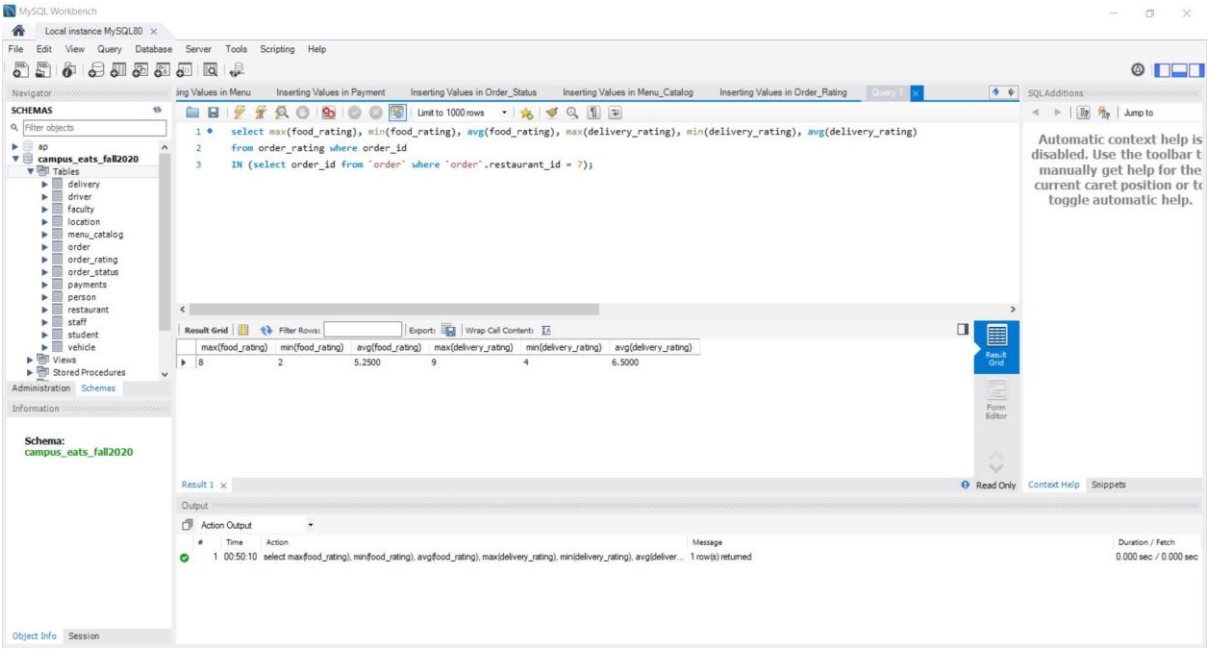
(106,'crowns: 8845 Craver Rd, Charlotte','Crowns','11am - 8pm','https://dineoncampus.com/UNCCharlotte');

2) Create queries according to those specified in Deliverable 3 in Blackboard:

a) display the max, min and average ratings for each feature when given a restaurant ID for all orders for that restaurant

Script

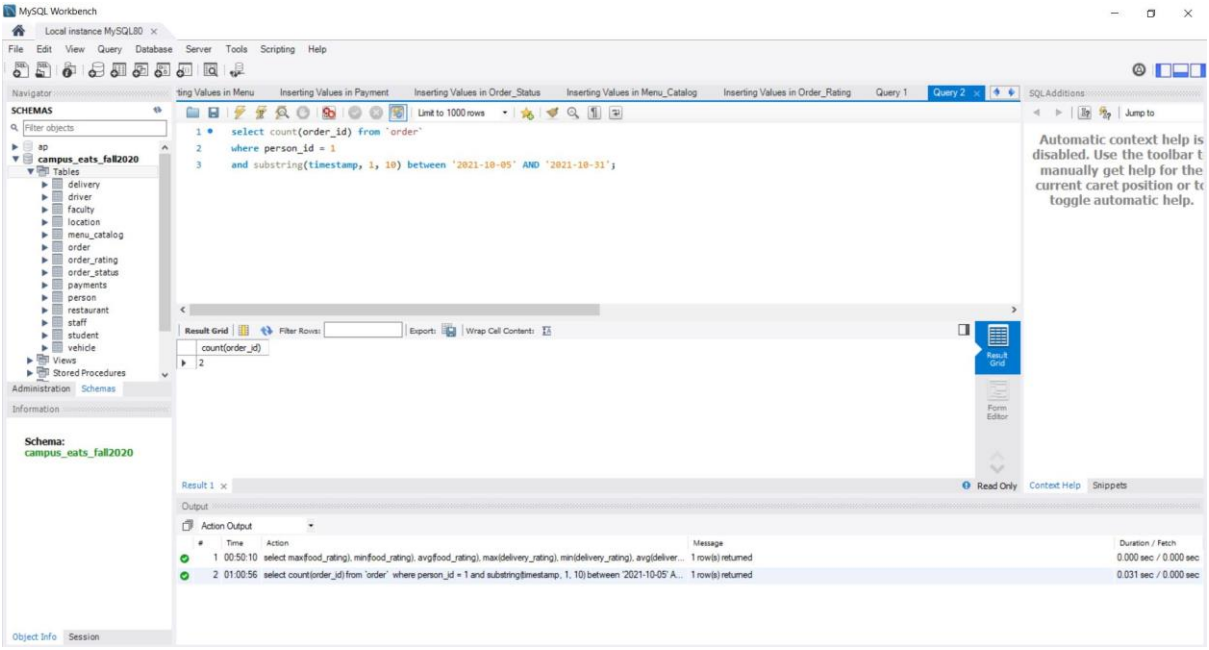
```
select max(food_rating), min(food_rating), avg(food_rating), max(delivery_rating), min(delivery_rating), avg(delivery_rating)

from order_rating where order_id

IN (select order_id from `order` where `order`.restaurant_id = 7);
```



b) display a count of the orders made by a customer for a specified date range when given a customer id

Script

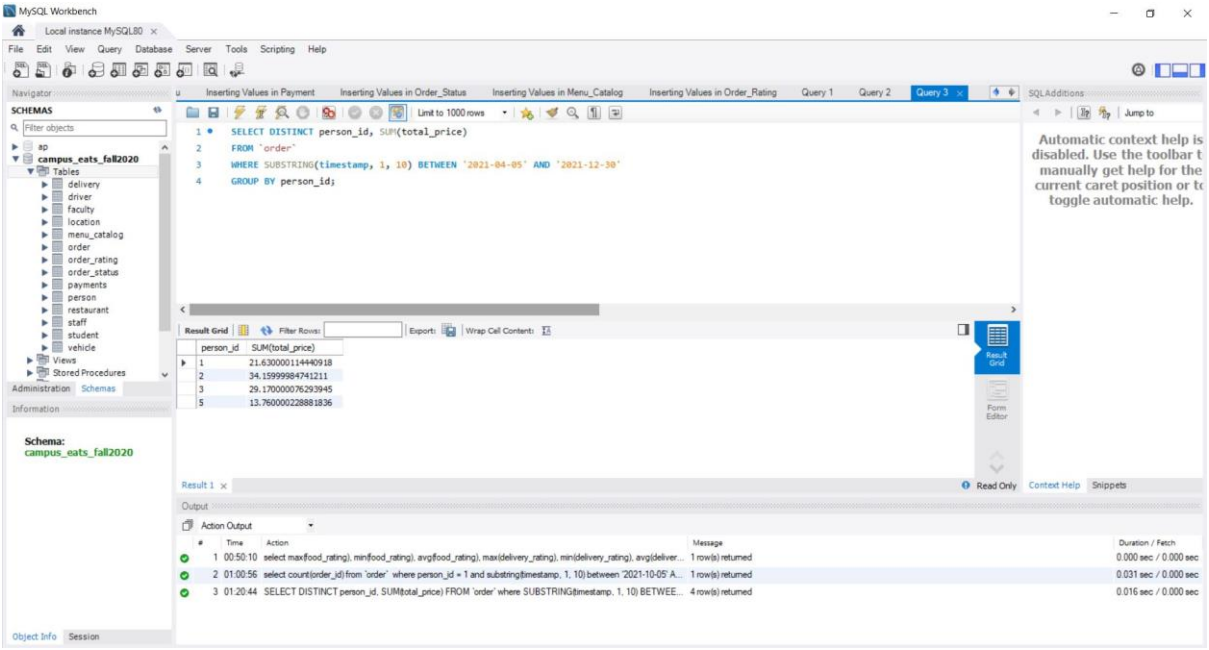
```
select count(order_id) from `order`

where person_id = 1

and substring(timestamp, 1, 10) between '2021-10-05' AND '2021-10-31';
```



c) display total price of the orders by each customer (distinct) for a specified date range

Script

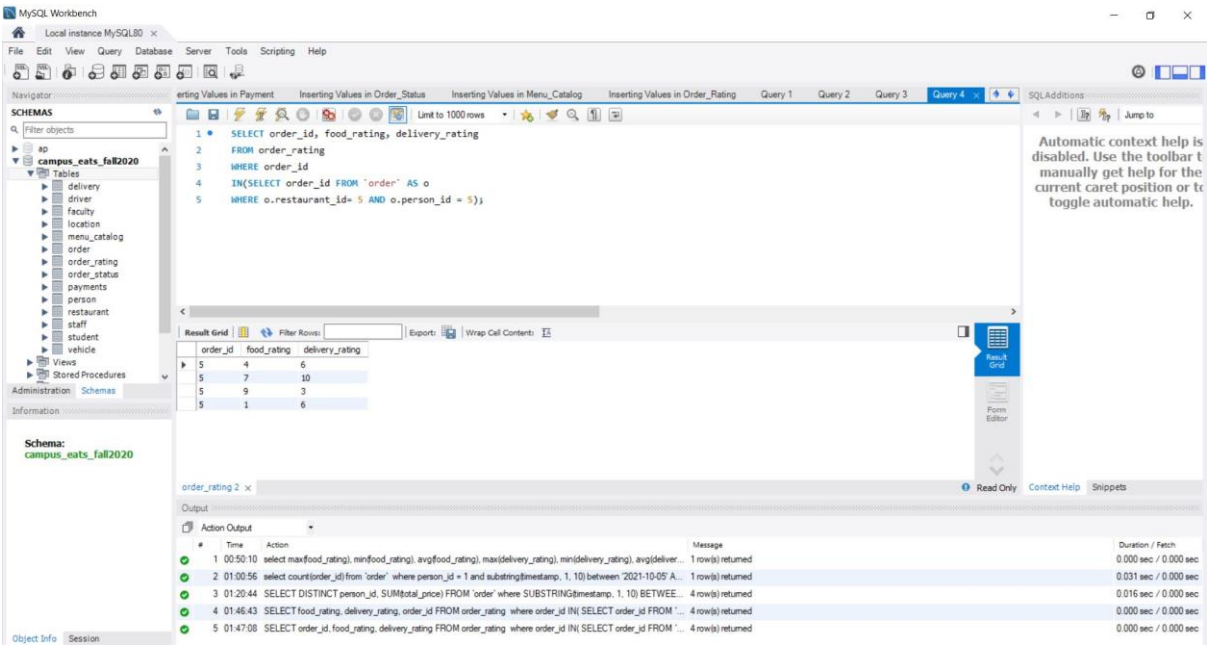
```
SELECT DISTINCT person_id, SUM(total_price)

FROM `order`

WHERE SUBSTRING(timestamp, 1, 10) BETWEEN '2021-04-05' AND '2021-12-30'

GROUP BY person_id;
```



d) display a particular customer's rating for a restaurant

Script

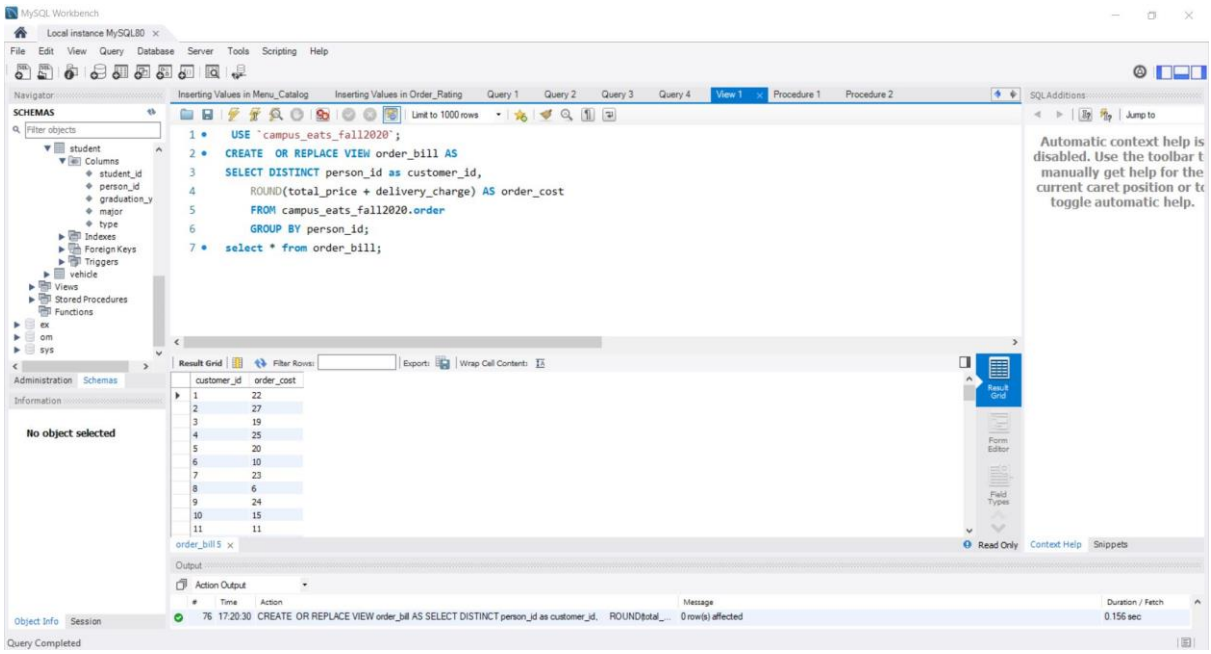
```
SELECT order_id, food_rating, delivery_rating
FROM order_rating
WHERE order_id
IN(SELECT order_id FROM `order` AS o
WHERE o.restaurant_id= 5 AND o.person_id = 5);
```



e) Have one of the above requirements represented in a View

View

```
USE `campus_eats_fall2020`;
CREATE  OR REPLACE VIEW order_bill AS
SELECT DISTINCT person_id as customer_id,
    ROUND(total_price + delivery_charge) AS order_cost
    FROM campus_eats_fall2020.order
    GROUP BY person_id;
select * from order_bill;
```

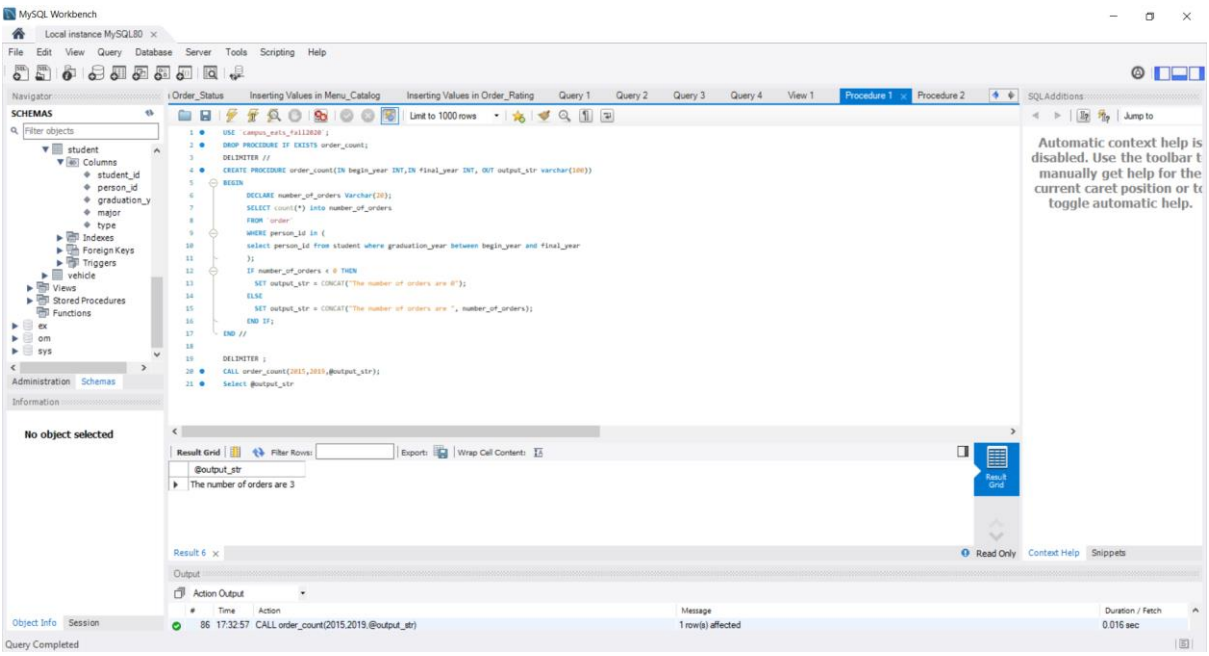


f) Have one of the above requirements represented in a Stored Procedure

Procedure 1

```
USE `campus_eats_fall2020`;
DROP PROCEDURE IF EXISTS order_count;
DELIMITER //
CREATE PROCEDURE order_count(IN begin_year INT,IN final_year INT, OUT output_str varchar(100))
BEGIN
    DECLARE number_of_orders Varchar(20);
    SELECT count(*) into number_of_orders
    FROM `order`
```

```
        WHERE person_id in (
        select person_id from student where graduation_year between begin_year and final_year
        );
        IF number_of_orders < 0 THEN
            SET output_str = CONCAT("The number of orders are 0");
        ELSE
            SET output_str = CONCAT("The number of orders are ", number_of_orders);
        END IF;
END //

DELIMITER ;
CALL order_count(2015,2019,@output_str);
Select @output_str
```



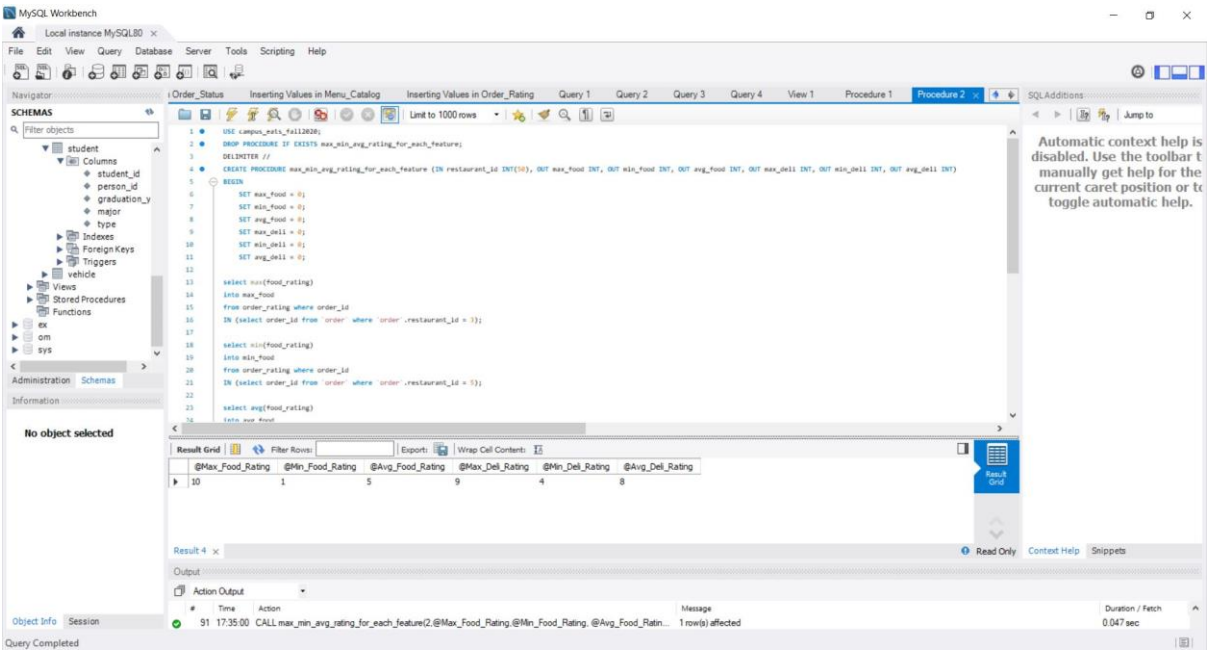
Procedure 2

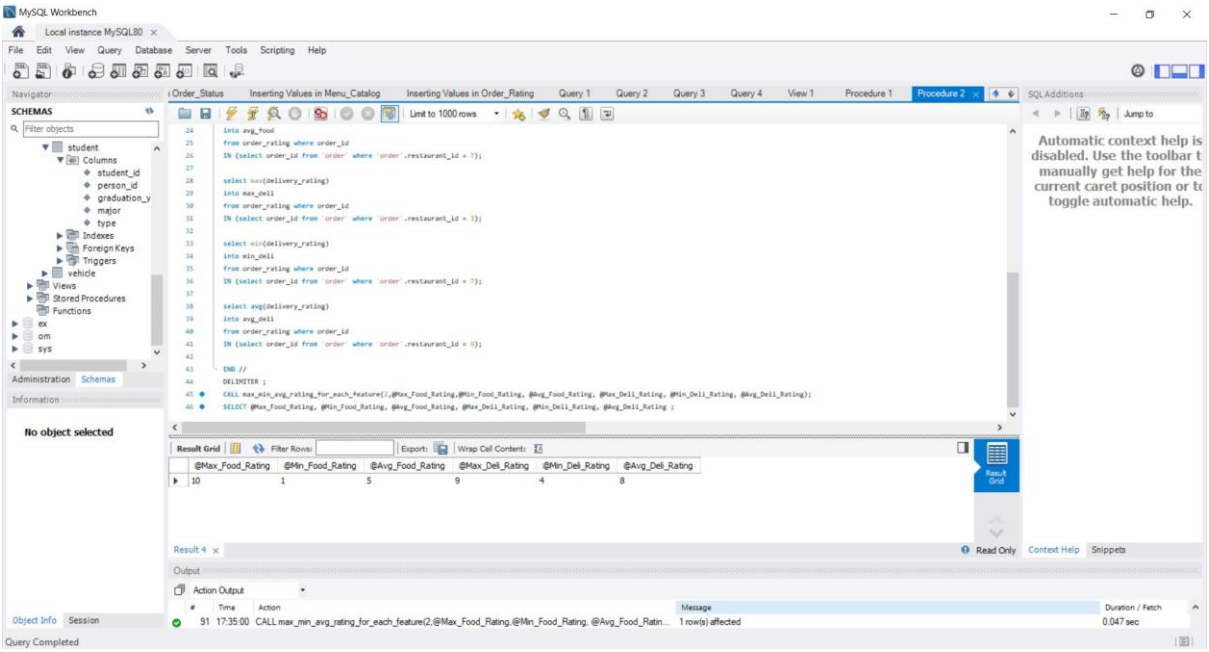
```
USE campus_eats_fall2020;

DROP PROCEDURE IF EXISTS
max_min_avg_rating_for_each_feature;

DELIMITER //

CREATE PROCEDURE max_min_avg_rating_for_each_feature (IN
restaurant_id INT(50), OUT max_food INT, OUT min_food INT,
OUT avg_food INT, OUT max_deli INT, OUT min_deli INT, OUT
avg_deli INT)

BEGIN
    SET max_food = 0;
    SET min_food = 0;
    SET avg_food = 0;
    SET max_deli = 0;
    SET min_deli = 0;
    SET avg_deli = 0;


select max(food_rating)
into max_food
from order_rating where order_id
IN (select order_id from `order` where `order`.restaurant_id = 3);


select min(food_rating)
into min_food
from order_rating where order_id
IN (select order_id from `order` where `order`.restaurant_id = 5);
```

```
select avg(food_rating)
into avg_food
from order_rating where order_id
IN (select order_id from `order` where `order`.restaurant_id = 7);

select max(delivery_rating)
into max_deli
from order_rating where order_id
IN (select order_id from `order` where `order`.restaurant_id = 3);

select min(delivery_rating)
into min_deli
from order_rating where order_id
IN (select order_id from `order` where `order`.restaurant_id = 7);

select avg(delivery_rating)
into avg_deli
from order_rating where order_id
IN (select order_id from `order` where `order`.restaurant_id = 9);



END //
DELIMITER ;
CALL
max_min_avg_rating_for_each_feature(2,@Max_Food_Rating,@Mi
```

n_Food_Rating, @Avg_Food_Rating, @Max_Deli_Rating, @Min_Deli_Rating, @Avg_Deli_Rating);

SELECT @Max_Food_Rating, @Min_Food_Rating, @Avg_Food_Rating, @Max_Deli_Rating, @Min_Deli_Rating, @Avg_Deli_Rating ;

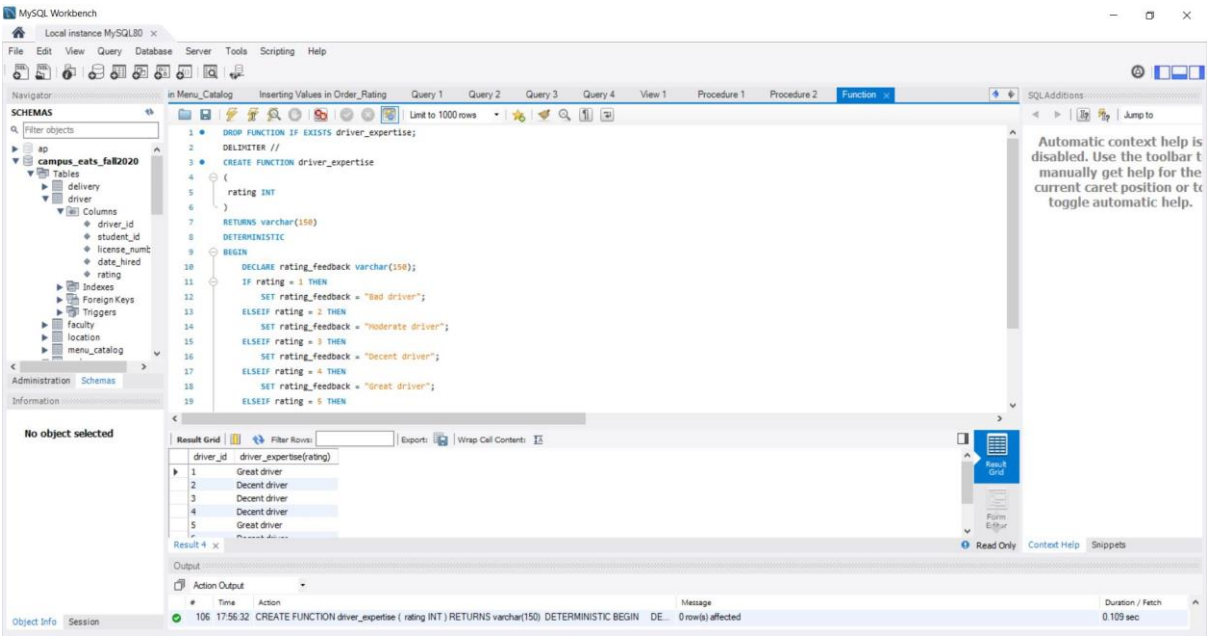


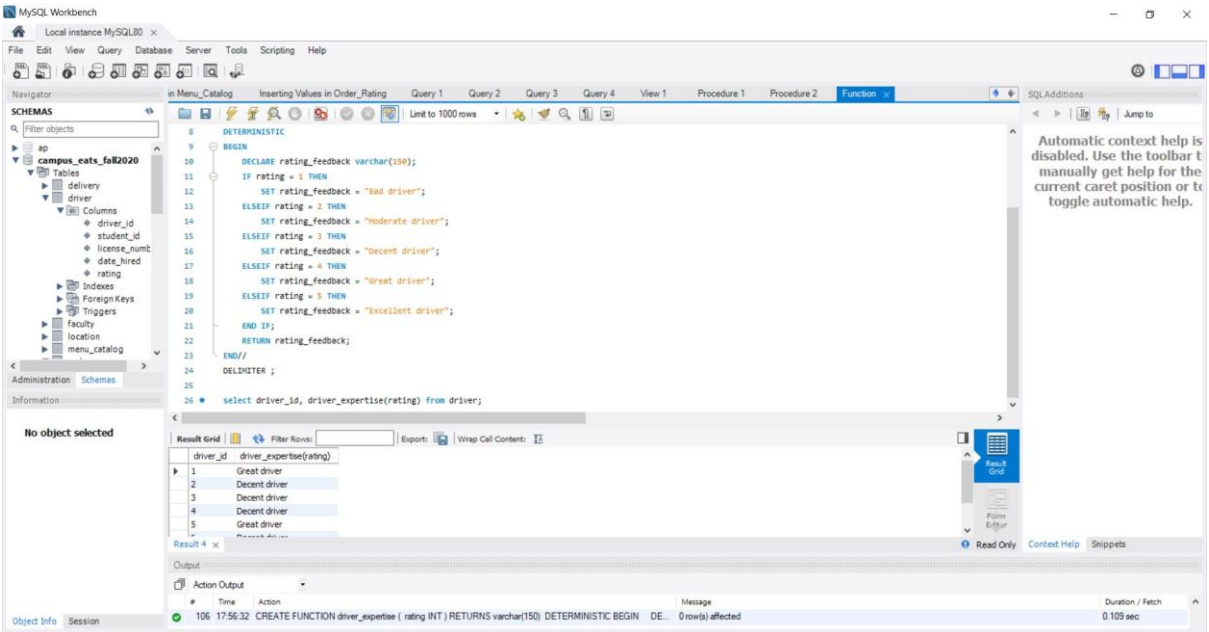


Function

```
DROP FUNCTION IF EXISTS driver_expertise;
DELIMITER //
CREATE FUNCTION driver_expertise
(
 rating INT
)
RETURNS varchar(150)
DETERMINISTIC
BEGIN
    DECLARE rating_feedback varchar(150);
    IF rating = 1 THEN
                SET rating_feedback = "Bad driver";
        ELSEIF rating = 2 THEN
                SET rating_feedback = "Moderate driver";
        ELSEIF rating = 3 THEN
                SET rating_feedback = "Decent driver";
        ELSEIF rating = 4 THEN
                SET rating_feedback = "Great driver";
        ELSEIF rating = 5 THEN
                SET rating_feedback = "Excellent driver";
        END IF;
    RETURN rating_feedback;
END//
DELIMITER ;
```

select driver_id, driver_expertise(rating) from driver;





Index

CREATE TABLE IF NOT EXISTS
`campus_eats_fall2020`.`order_rating` (`rating_id` INT NOT NULL,

`order_id` INT NOT NULL,

`food_rating` INT NULL,

`delivery_rating` INT NULL,

`comments` VARCHAR(200) NULL,

PRIMARY KEY (`rating_id`),

INDEX `order_id_indx` (`order_id` ASC) VISIBLE, CONSTRAINT `order_id`

FOREIGN KEY (`order_id`)

REFERENCES `campus_eats_fall2020`.`order` (`order_id`))