DELIVERABLE -3

GROUP-14

Jyosthna Gandhodi- 801254449

Sree Gauthami Gundaram- 801257596

Aparna Reddy Pothula- 801203669

Manswini Ragamouni- 801217775

1) Load the tables with sufficient test data

INSERT menu_items :

```
INSERT INTO `menu_items` VALUES
(1, 101,'Chicken Nuggets', 'Hot and Crispy Nuggets with some added spices', 5.6),
(2, 101, 'Vegetable Spring Roll', 'Roll consisting of mixed vegetables with crispy wonton wrapper', 8.7),
(3, 106, 'Chocolate Lava Cake', 'Lava Cake consisting of Hot Chocolate', 6.8),
(4, 101, 'French Fries', 'Hot and Crispy French Fries with Ranch', 3.6),
(5, 102, 'Chicken Soup', 'Hot Liquid Soup with Tinge of Chicken and Spices', 7.05),
(6, 104, 'Veggie Delight', 'A mix of boiled veggies with cheese and salad', 8.4),
(7, 103, 'Garden Salad', 'Fresh Romaine Lettuce with added carrots and grape tomatoes', 10.2),
(8, 106, 'Chocolate Brownie', 'Brownie with dry fruits topping', 6.8),
(9, 105, 'Orange Chicken', 'Chicken dipped in Orange Sauce', 6.7),
(10, 106,'Steak Burger', 'Burger consisting of Steak and Sauce', 12.6),
(11, 101, 'Beef Spring Roll', 'Roll consisting of beef with crispy wonton wrapper',  105),
(12, 103, 'Romaine Salad', 'Fresh Romaine Lettuce with added cheese', 8.2),
(13, 106, 'Flavoured Yoghurt', 'Yoghurt in different flavours', 4.8),
(14, 102, 'Chicken Pizza', 'Hot and Soft Pizza with olives and chicken', 10.05),
(15, 104, 'Veg Sub', 'A mix of boiled veggies with salad dressing', 7.6),
```

(16, 102, 'Chicken Burger', 'Burger consisting of Chicken and Cheese', 7.05),

(17, 104, 'Chocolate Cookies', 'Choco Chip Cookies baked in low flame', 4.4),

(18, 103, 'SoftDrink', 'Drinks with Ice Cubes', 3.2);

INSERT order_rating:

insert into `order_rating` values(1, 3, 3.5, 4, 'Food is so good','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(2, 5, 4, 2.5, 'Food is delicious','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(3, 7, 1.5, 4,'Food can be better','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(4, 9, 3, 1.5, 'Food is delivered too late','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(6, 2, 3, 4, 'Food is so good','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(7, 2, 4, 2, 'Food is delicious','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(8, 2, 1, 4,'Food can be better','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(9, 2, 3, 2, 'Food is delivered too late','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(10, 4, 4, 4, 'Food is so good','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(11, 4, 5, 2, 'Food is delicious','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(12, 4, 2, 4,'Food can be better','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(13, 4, 3, 1, 'Food is delivered too late','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(14, 5, 4, 4, 'Food is so good','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(15, 4, 4, 5, 'Food is delicious','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(16, 3, 1, 3,'Food can be better','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/'),

(17, 4, 3, 1, 'Food is delivered too late','https://www.pexels.com/photo/flat-lay-photography-of-vegetable-salad-on-plate-1640777/');

INSERT order_status:

insert into `order_status` values (1, 'Delivered'),

(2, 'Out for Delivery'),

(3, 'In the Kitchen'),

(4, 'Order Placed');

INSERT payments:

insert into `payments` values (1, 2, 1, 21.63, 7.75),

(2, 4, 2, 18.85, 5.25),

(3, 5, 3, 17.89, 4.75),

(4, 7, 4, 12.54, 2.25),

(5, 6, 5, 4.88, 1.86),

(6, 10, 6, 25.39, 6.25),

(7, 15, 7, 14.68, 9.23),

(8, 19, 8, 19.67, 7.05);

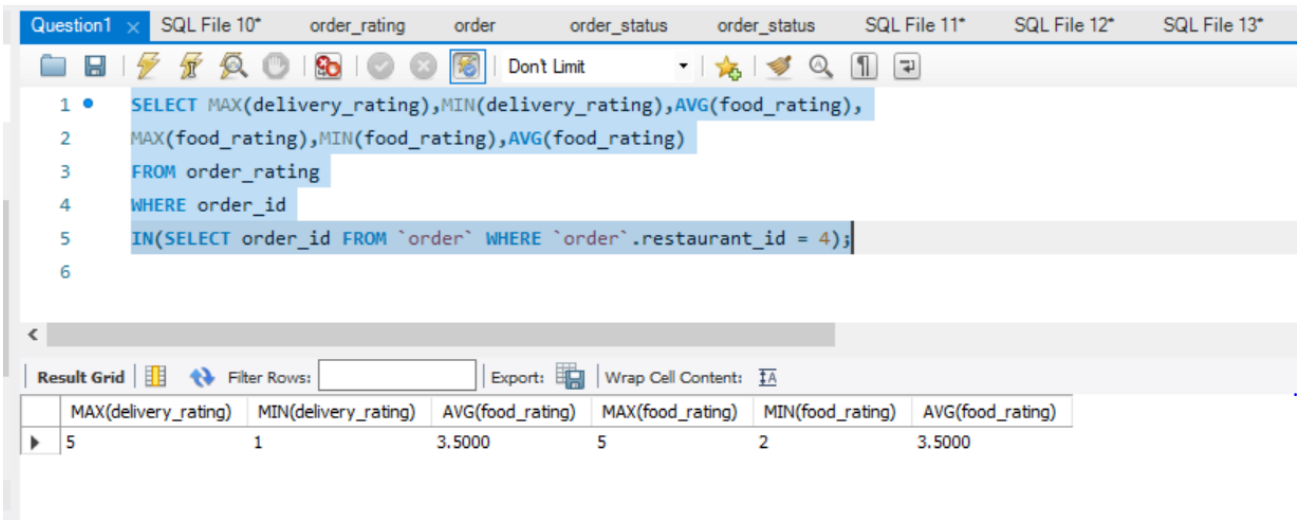
INSERT restaurant:

```
INSERT INTO `restaurant` VALUES (101, '901 University City Blvd','Bojangles','7am - 11pm','https://www.bojangles.com/'),

(102, '9025 University Rd, Charlotte','Panda Express','8am - 9pm','https://www.pandaexpress.com/'),

(103, '9201 University City Blvd','Wendys','11am -10pm','https://www.wendys.com'),

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

(105, '8917 Johnson Alumni Way','SoVi','7am - 11pm','http://aux.charlotte.edu/dining/dining'),

(106, '9025 University Rd, Charlotte','Panda Express','10am - 9pm','https://www.pandaexpress.com/');
```

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

```
SELECT MAX(delivery_rating),MIN(delivery_rating),AVG(food_rating),

MAX(food_rating),MIN(food_rating),AVG(food_rating)

FROM order_rating

WHERE order_id

IN(SELECT order_id FROM `order` WHERE `order`.restaurant_id = 4);
```

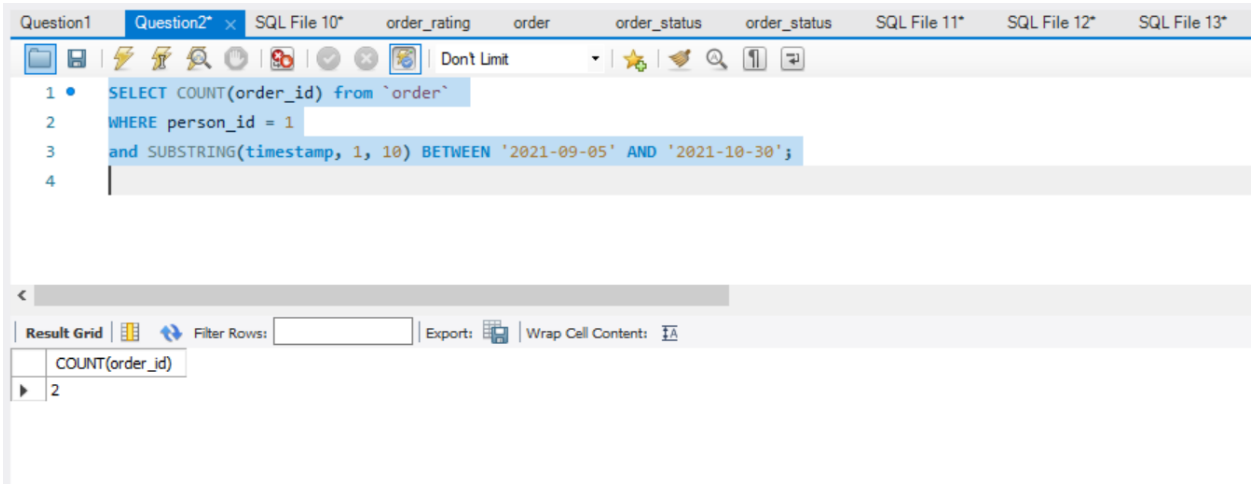


b) display a count of the orders made by a customer for a specified date range when given a customer id

SELECT COUNT(order_id) from `order`

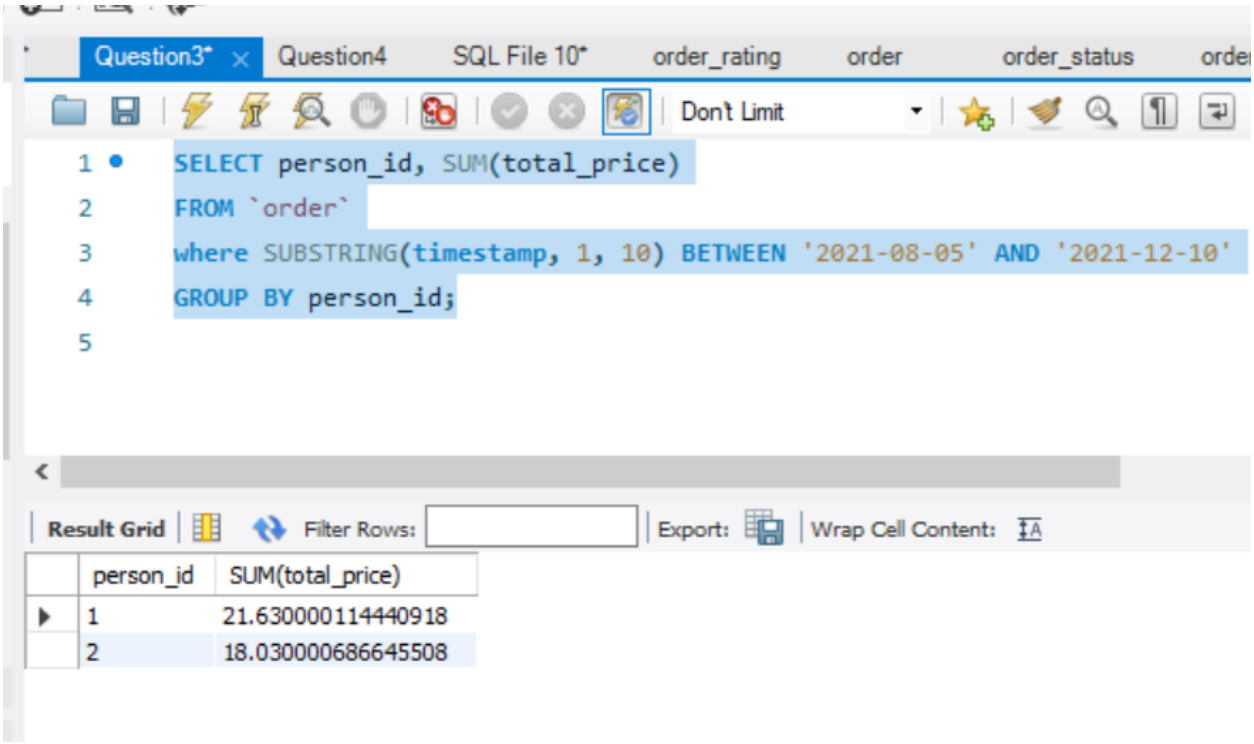
WHERE person_id = 1

and SUBSTRING(timestamp, 1, 10) BETWEEN '2021-09-05' AND '2021-10-02';



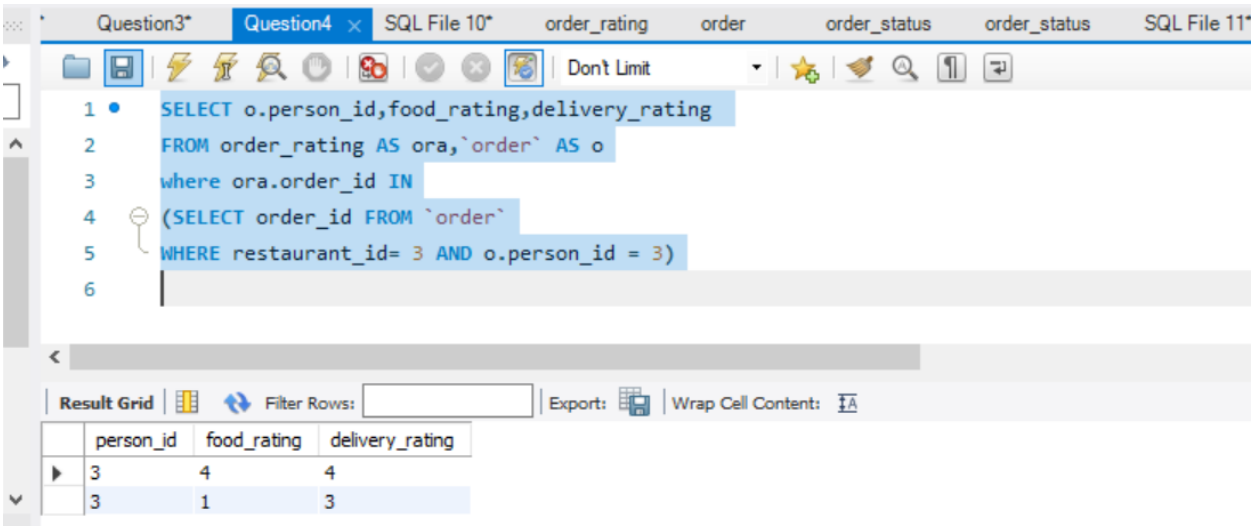
c) display total price of the orders by each customer (distinct) for a specified date range

```
SELECT person_id, SUM(total_price)
FROM `order`
where SUBSTRING(timestamp, 1, 10) BETWEEN '2021-08-05' AND '2021-12-10'
GROUP BY person_id;
```



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

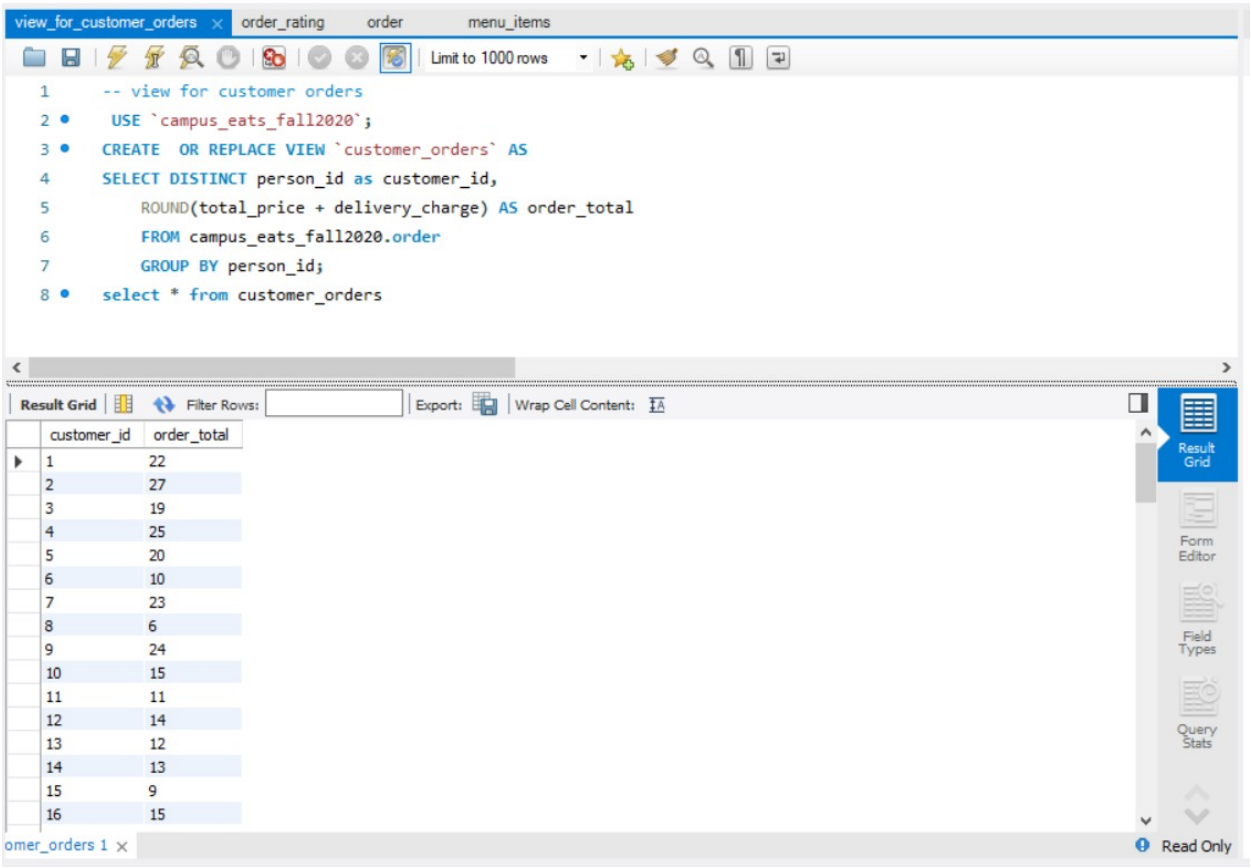
```
SELECT o.person_id,food_rating,delivery_rating
FROM order_rating AS ora,`order` AS o
where ora.order_id IN
(SELECT order_id FROM `order`
WHERE restaurant_id= 3 AND o.person_id = 3)
```



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

view_for_customer_orders

```
-- view for customer orders
 USE `campus_eats_fall2020`;
CREATE  OR REPLACE VIEW `customer_orders` AS
SELECT DISTINCT person_id as customer_id,
   ROUND(total_price + delivery_charge) AS order_total
   FROM campus_eats_fall2020.order
   GROUP BY person_id;
select * from customer_orders
```

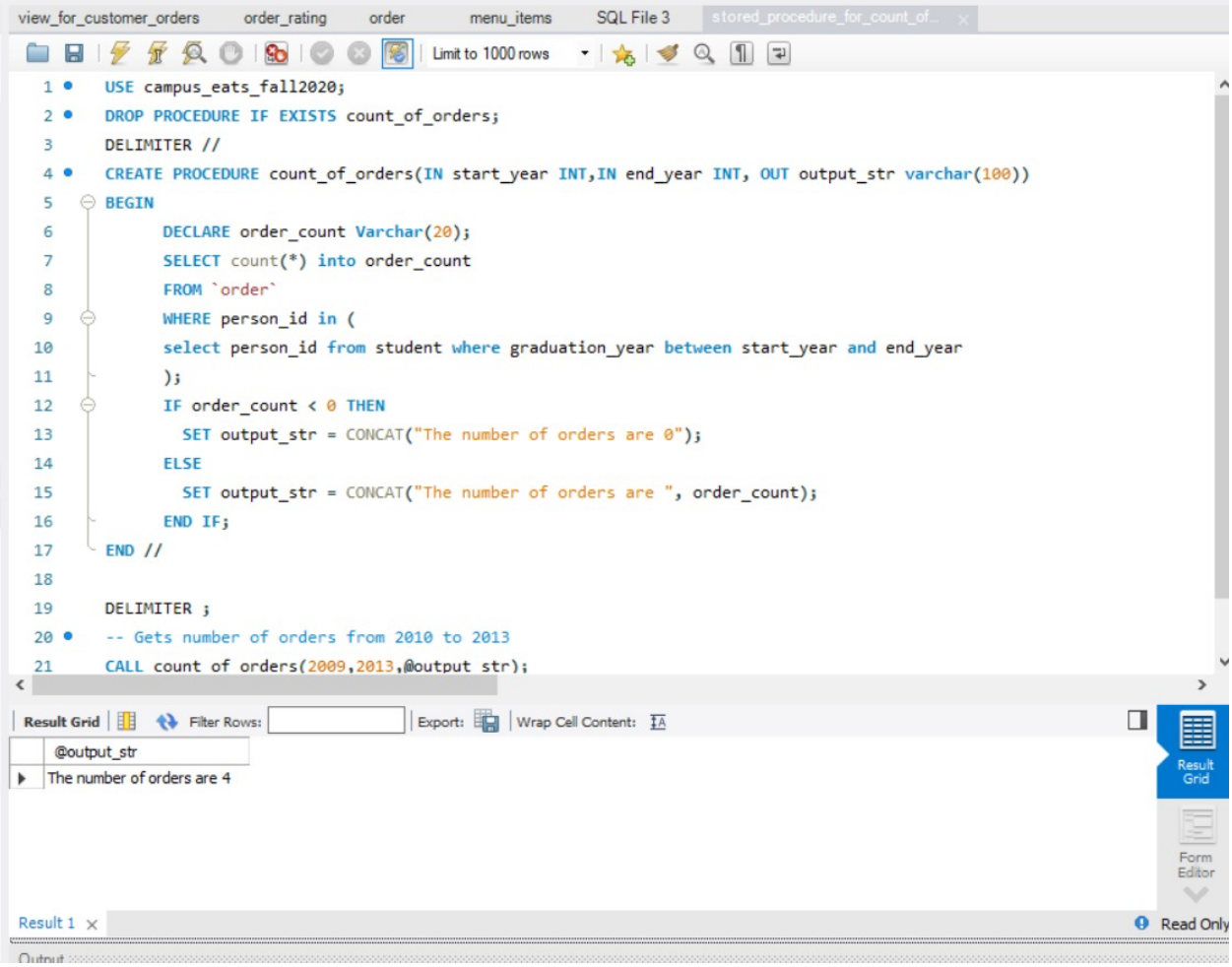


f) Have one of the above requirements represented in a Stored Procedure

stored_procedure_for_count_of_orders

```
USE campus_eats_fall2020;
DROP PROCEDURE IF EXISTS count_of_orders;
DELIMITER //
CREATE PROCEDURE count_of_orders(IN start_year INT,IN end_year INT, OUT output_str varchar(100))
BEGIN
                                        DECLARE order_count Varchar(20);
                                        SELECT count(*) into order_count
                                        FROM `order`
                                        WHERE person_id in (
```

```
                                        select person_id from student where graduation_year
between start_year and end_year
                                        );
                                        IF order_count < 0 THEN
                                            SET output_str = CONCAT("The number of orders are
0");
                                        ELSE
                                            SET output_str = CONCAT("The number of orders are ",
order_count);
                                        END IF;
END //

DELIMITER ;
-- Gets number of orders from 2010 to 2013
CALL count_of_orders(2009,2013,@output_str);
Select @output_str
```

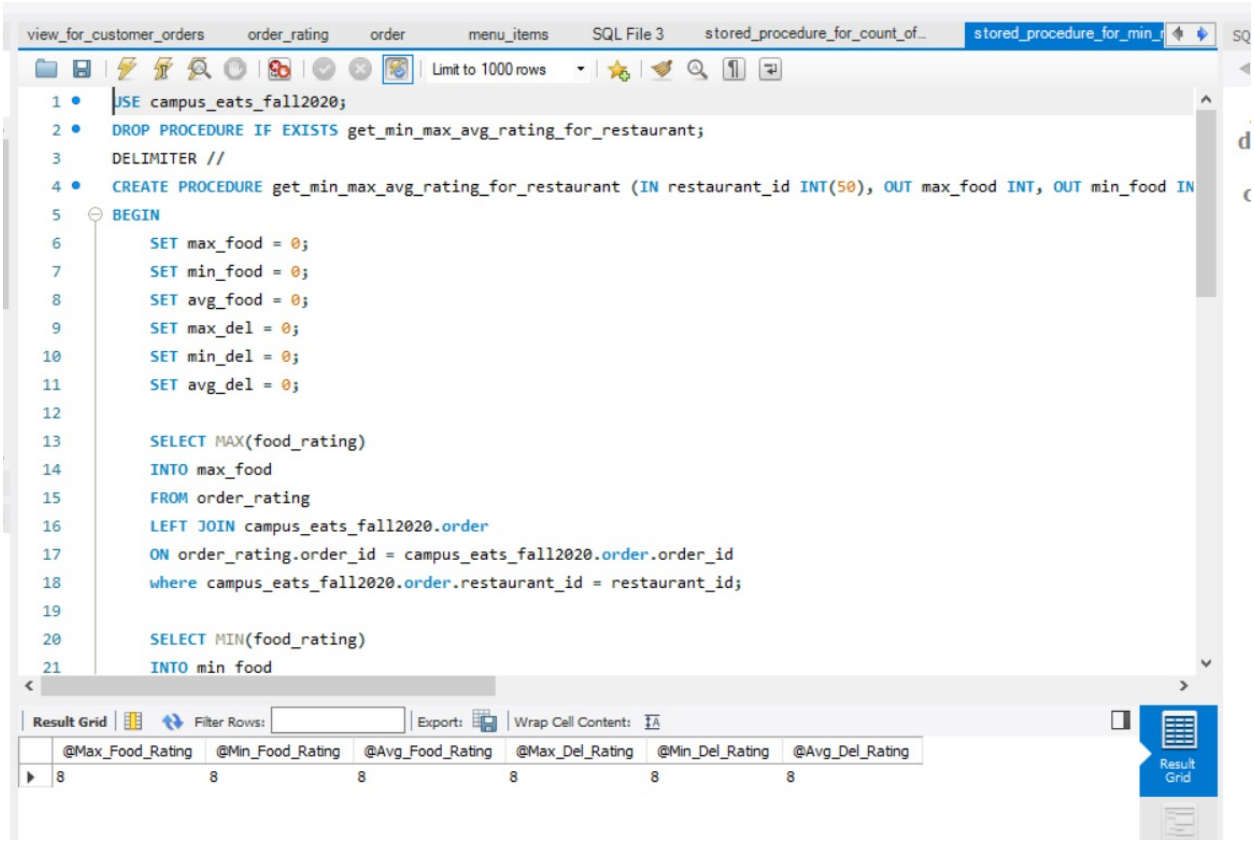


stored_procedure_for_min_max_avg

```
USE campus_eats_fall2020;

DROP PROCEDURE IF EXISTS get_min_max_avg_rating_for_restaurant;

DELIMITER //

CREATE PROCEDURE get_min_max_avg_rating_for_restaurant (IN restaurant_id INT(50), OUT max_food INT, OUT min_food INT, OUT avg_food INT, OUT max_del INT, OUT min_del INT, OUT avg_del INT)

BEGIN

   SET max_food = 0;

                                                SET min_food = 0;

   SET avg_food = 0;
```

```
SET max_del = 0;

SET min_del = 0;

SET avg_del = 0;


SELECT MAX(food_rating)

INTO max_food

FROM order_rating

LEFT JOIN campus_eats_fall2020.order

ON order_rating.order_id = campus_eats_fall2020.order.order_id

where campus_eats_fall2020.order.restaurant_id = restaurant_id;


SELECT MIN(food_rating)

INTO min_food

FROM order_rating

LEFT JOIN campus_eats_fall2020.order

ON order_rating.order_id = campus_eats_fall2020.order.order_id

where campus_eats_fall2020.order.restaurant_id = restaurant_id;


SELECT AVG(food_rating)

INTO avg_food

FROM order_rating

LEFT JOIN campus_eats_fall2020.order

ON order_rating.order_id = campus_eats_fall2020.order.order_id

where campus_eats_fall2020.order.restaurant_id = restaurant_id;


SELECT MAX(delivery_rating)

INTO max_del

FROM order_rating

LEFT JOIN campus_eats_fall2020.order
```

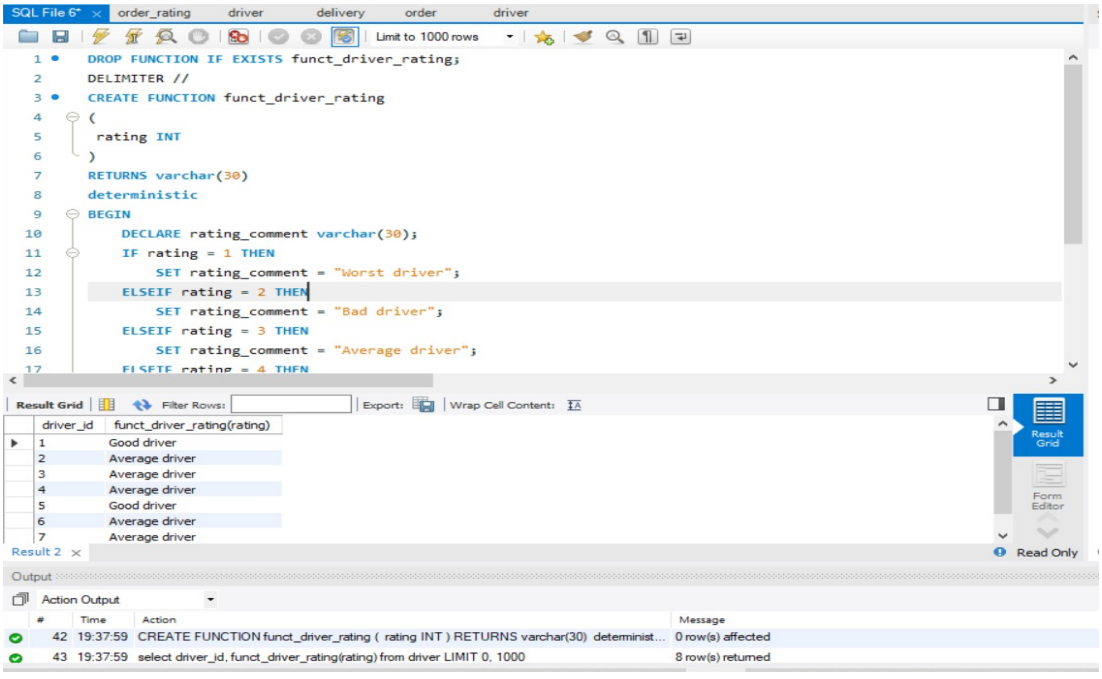
```
    ON order_rating.order_id = campus_eats_fall2020.order.order_id
    where campus_eats_fall2020.order.restaurant_id = restaurant_id;

    SELECT MIN(delivery_rating)
    INTO min_del
    FROM order_rating
    LEFT JOIN campus_eats_fall2020.order
    ON order_rating.order_id = campus_eats_fall2020.order.order_id
    where campus_eats_fall2020.order.restaurant_id = restaurant_id;

    SELECT AVG(delivery_rating)
    INTO avg_del
    FROM order_rating
    LEFT JOIN campus_eats_fall2020.order
    ON order_rating.order_id = campus_eats_fall2020.order.order_id
    where campus_eats_fall2020.order.restaurant_id = restaurant_id;

END //
DELIMITER ;
CALL get_min_max_avg_rating_for_restaurant(2,@Max_Food_Rating,@Min_Food_Rating,
@Avg_Food_Rating, @Max_Del_Rating, @Min_Del_Rating, @Avg_Del_Rating);
SELECT @Max_Food_Rating, @Min_Food_Rating, @Avg_Food_Rating, @Max_Del_Rating,
@Min_Del_Rating, @Avg_Del_Rating ;
```



Function :

```
DROP FUNCTION IF EXISTS funct_driver_rating;
DELIMITER //
CREATE FUNCTION funct_driver_rating
(
 rating INT
)
RETURNS varchar(30)
deterministic
BEGIN
    DECLARE rating_comment varchar(30);
    IF rating = 1 THEN
```

```
        SET rating_comment = "Worst driver";
    ELSEIF rating = 2 THEN
        SET rating_comment = "Bad driver";
    ELSEIF rating = 3 THEN
        SET rating_comment = "Average driver";
    ELSEIF rating = 4 THEN
        SET rating_comment = "Good driver";
    ELSEIF rating = 5 THEN
        SET rating_comment = "Excellent driver";
    END IF;
  RETURN rating_comment;
END//
DELIMITER ;
select driver_id, funct_driver_rating(rating) from driver;
```



INDEX :

```
DROP TABLE IF EXISTS `order_rating`;
CREATE TABLE IF NOT EXISTS `campus_eats_fall2020`.`order_rating` (
  `id` INT NOT NULL,
  `order_id` INT NOT NULL,
  `food_rating` INT NULL,
  `delivery_rating` INT NULL,
  `comments` VARCHAR(200) NULL,
  `picture` VARCHAR(100) NULL,
  PRIMARY KEY (`id`),
  INDEX `order_id_idx` (`order_id` ASC),
  CONSTRAINT `order_id`
    FOREIGN KEY (`order_id`)
    REFERENCES `campus_eats_fall2020`.`order` (`order_id`))
ENGINE = InnoDB
```