

Food Ordering System







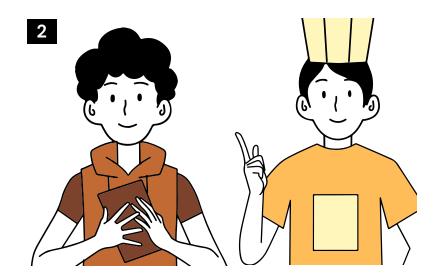
Dabawalas



India developed the dabbawala meal delivery system in busy metropolitan areas, such as Mumbai, in response to the increased number of workers in cities, this meal delivery system relied on delivery men called dabbawalas. The dabbawalas constitute a lunchbox delivery and return system that delivers hot lunches from homes and restaurants to people at work



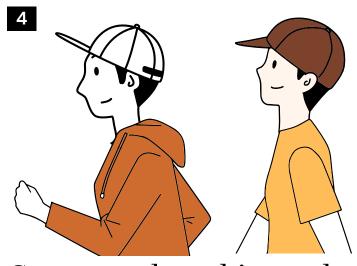
People calling their nearest restaurant to order food from their selective menu.



Restaurants accepting some orders or declining a few due to shortage of delivery boys.



Chef preparing orders.



Some people rushing to the restaurant in order to pick



Getting late deliveries.



Families receiving their deliveries.

Changes after Online Food Ordering System was introduced

Online food ordering allows customers to place an order at virtually any time, from anywhere, saving them time and resources typically spent on travelling to pick up a meal.



During COVID-19, customers may continue to enjoy the minimal contact that online ordering can offer

For customers, online ordering also opens their doors to nearly limitless dining options and allows them to browse restaurants and cuisines they may not have been familiar with previously.

Zomato

- The aim of developing the Online Food Ordering System project is to replace the traditional way of taking orders with a computerized system.
- Another important reason for developing this project is to prepare order summary reports quickly and in the correct format at any point of timewhen required.





COMPONENTS OF FOOD ORDERING SYSTEM



First is a website or mobile app for customers to view the restaurant's dishes and place an online order.

Admin Management Interface

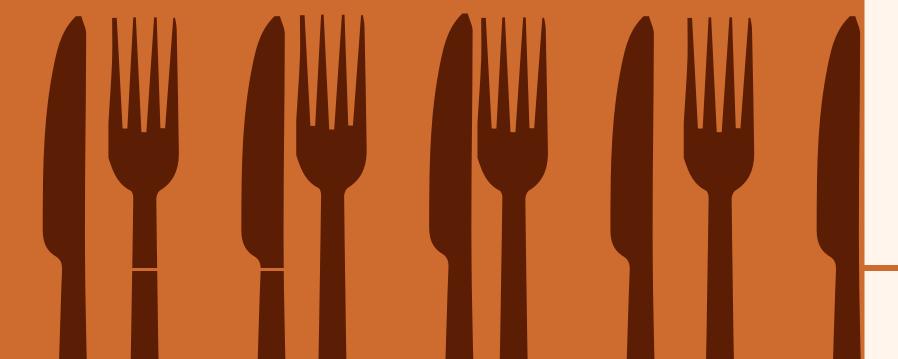
The second is an admin management interface for the restaurants to receive and manage the customer's orders.

Software

The third is software that manages the orders efficiently, meaning it has the capability to manage different orders at once.

Database

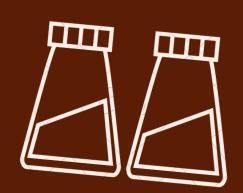
Fourth is a database for storing, accessing, updating and managing the data effectively.



DATABASE



12 Tables



5 Views



3 Triggers





Functions



6 Stored Procedures



2 Indexes

TABLES



- O User Table with all user information.
- Staff Table with all staff information.
- Restaurant Table with all restaurant and cuisine information.
- o Food menu Table with all food menu options.
- O Drinks menu Table with all drinks menu options.
- Offers Table with all offer related information.



TABLES



- Cart Table with all user and their cart information.
- Orders Table with all the order information to date.
- Payment Table with all payment information.
- O Payment Details detail information.
- Table with all information about bill with respect to order.
- Table with all information of feedback with respect to **Feedback** orders they recieved.

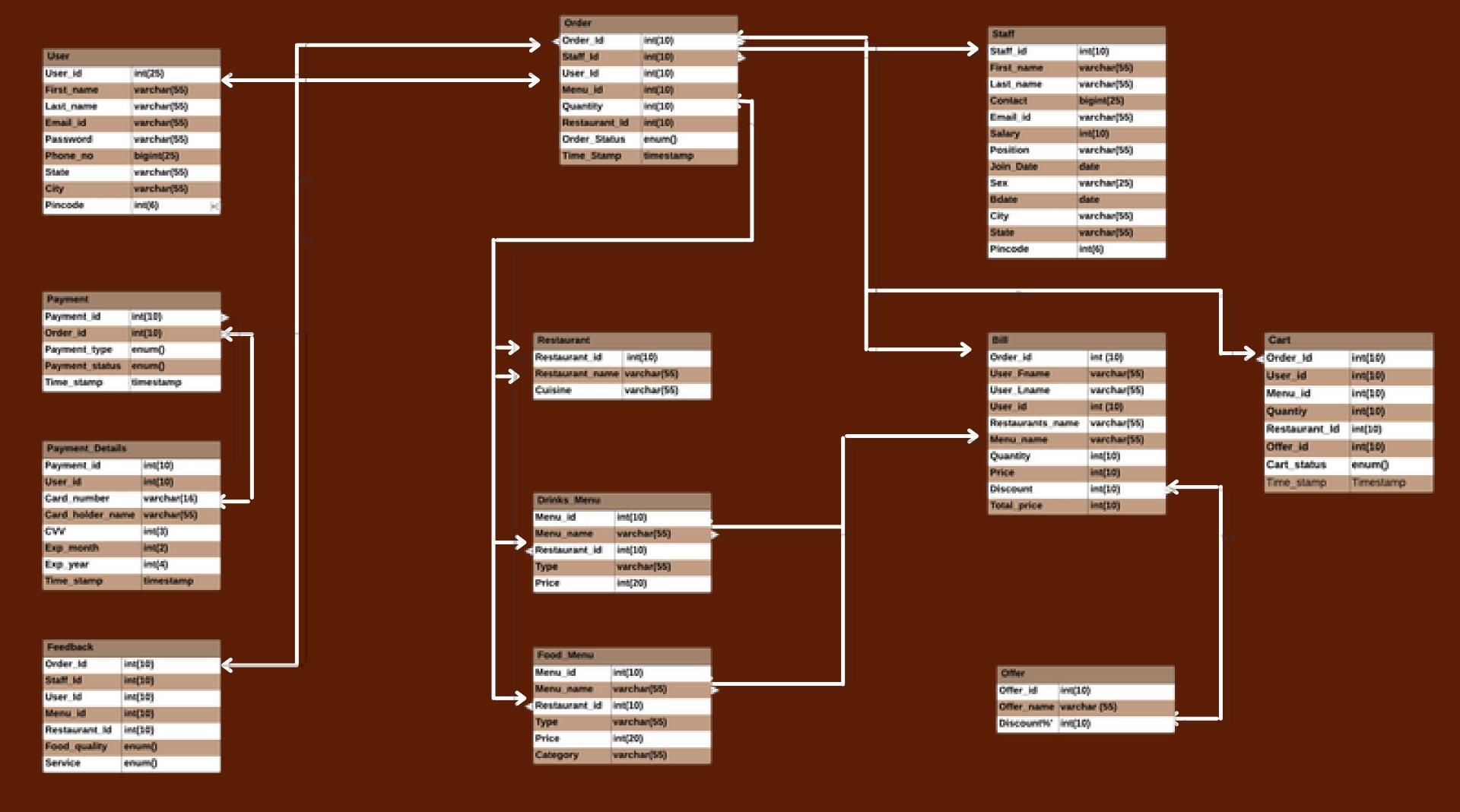
The purpose of ER Diagram is to represent the entity framework infrastructure.



ER DIAGRAM

ER diagrams are created based on three basic concepts: entities, attributes and relationships.

ERD is a diagram that displays the relationship of entity sets stored in a database.

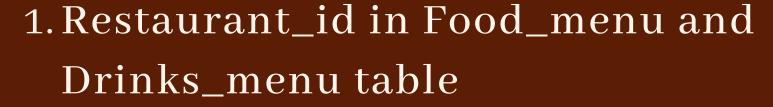


KEYS



- 1. User_id in the User table
- 2. Staff_id in Staff table
- 3. Payment_id in the Payment table
- 4. Menu_id in Food_menu and Drinks_menu table
- 5. Restaurant_id in Restaurant table
- 6. Order_id in the Orders table
- 7. Offer_id in Offers table

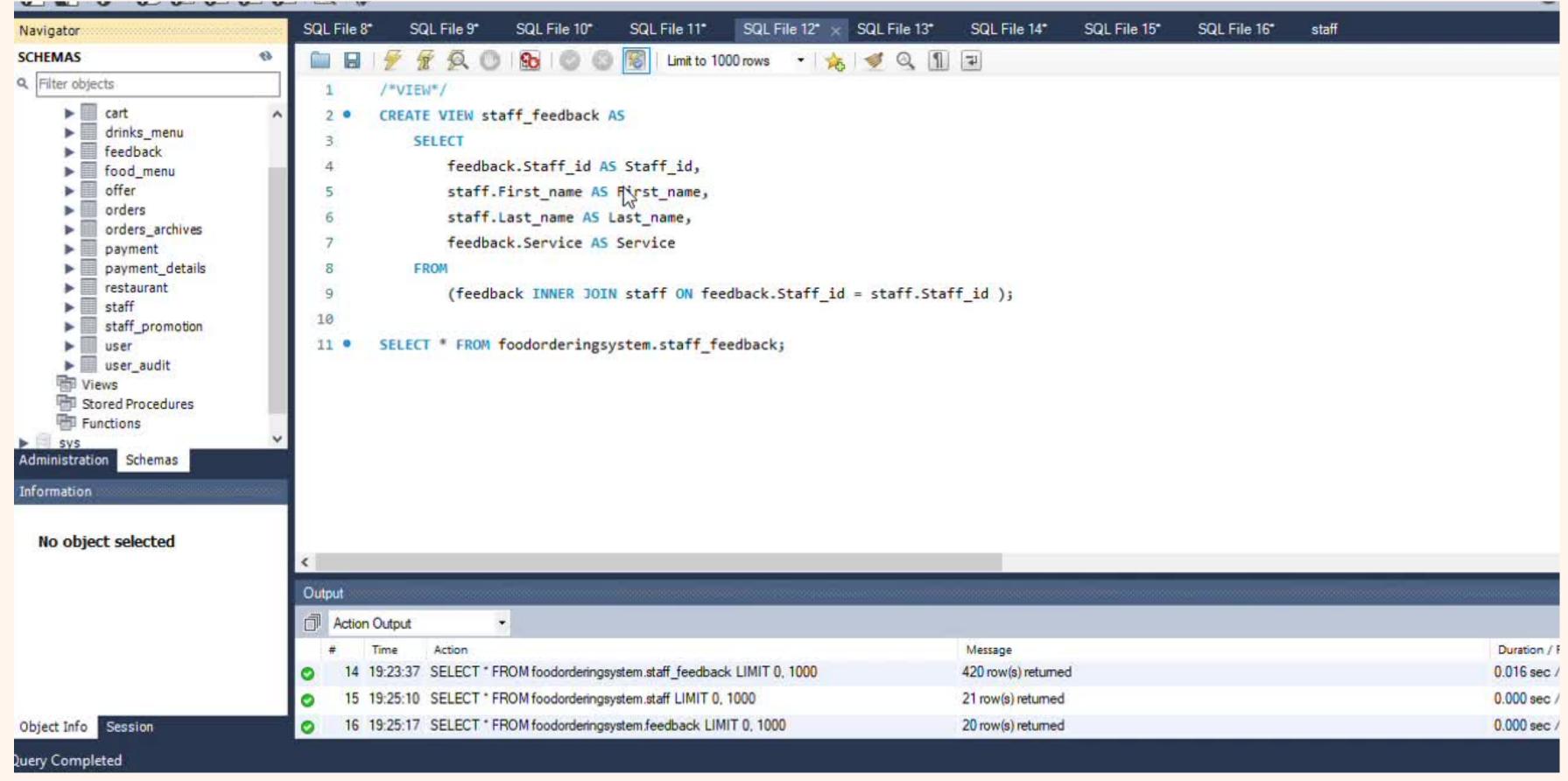
Foreign



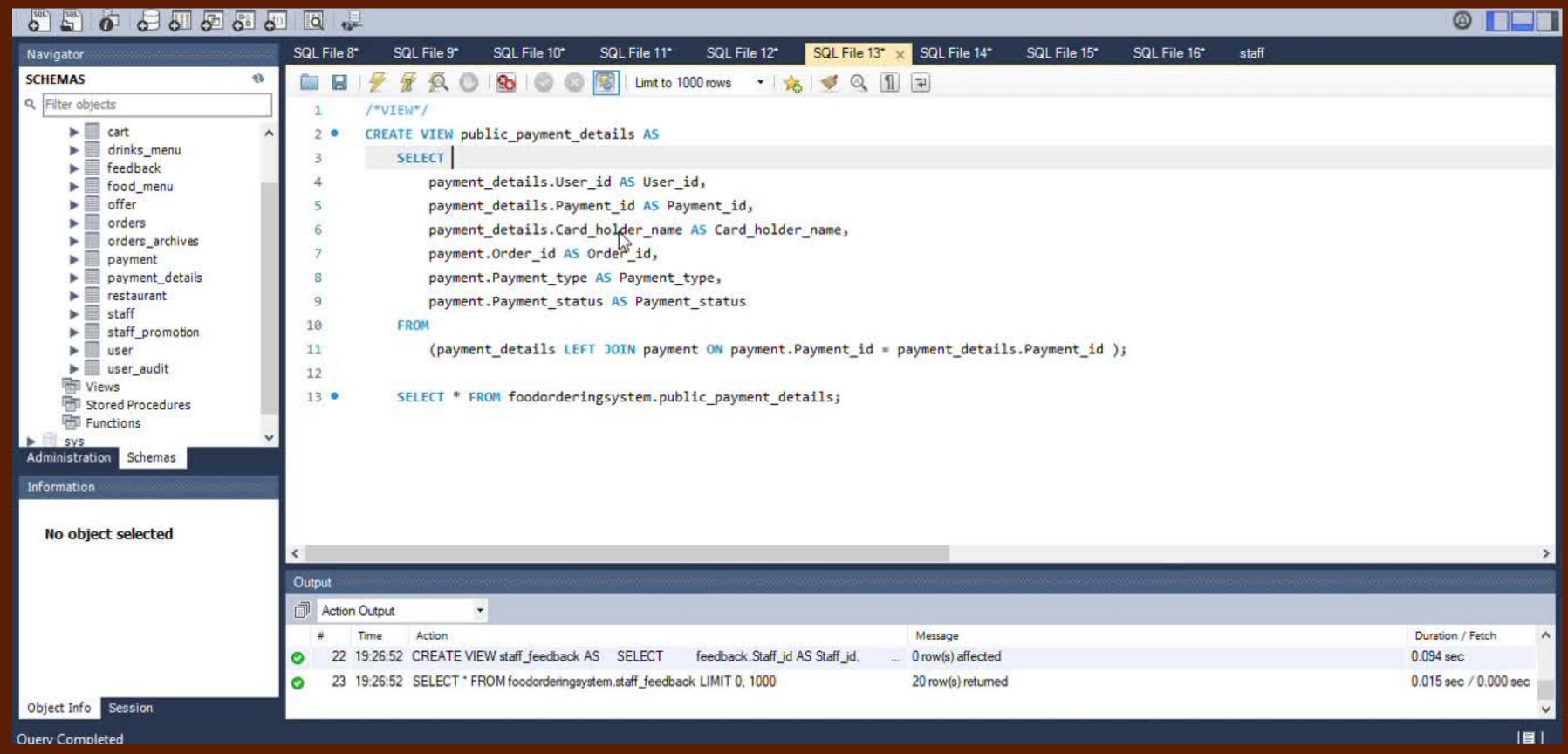
- 2. Staff_id, User_id, Menu_id and Restaurant_id in the Orders table
- 3. Payment_id and User_id in Payment_details table
- 4. Order_id and User_id in Bill table
- 5. Order_id, User_id, Menu_id and Restaurant_id in Cart table
- 6. Order_id, Staff_id, Menu_id, Restaurant_id in Feedback table



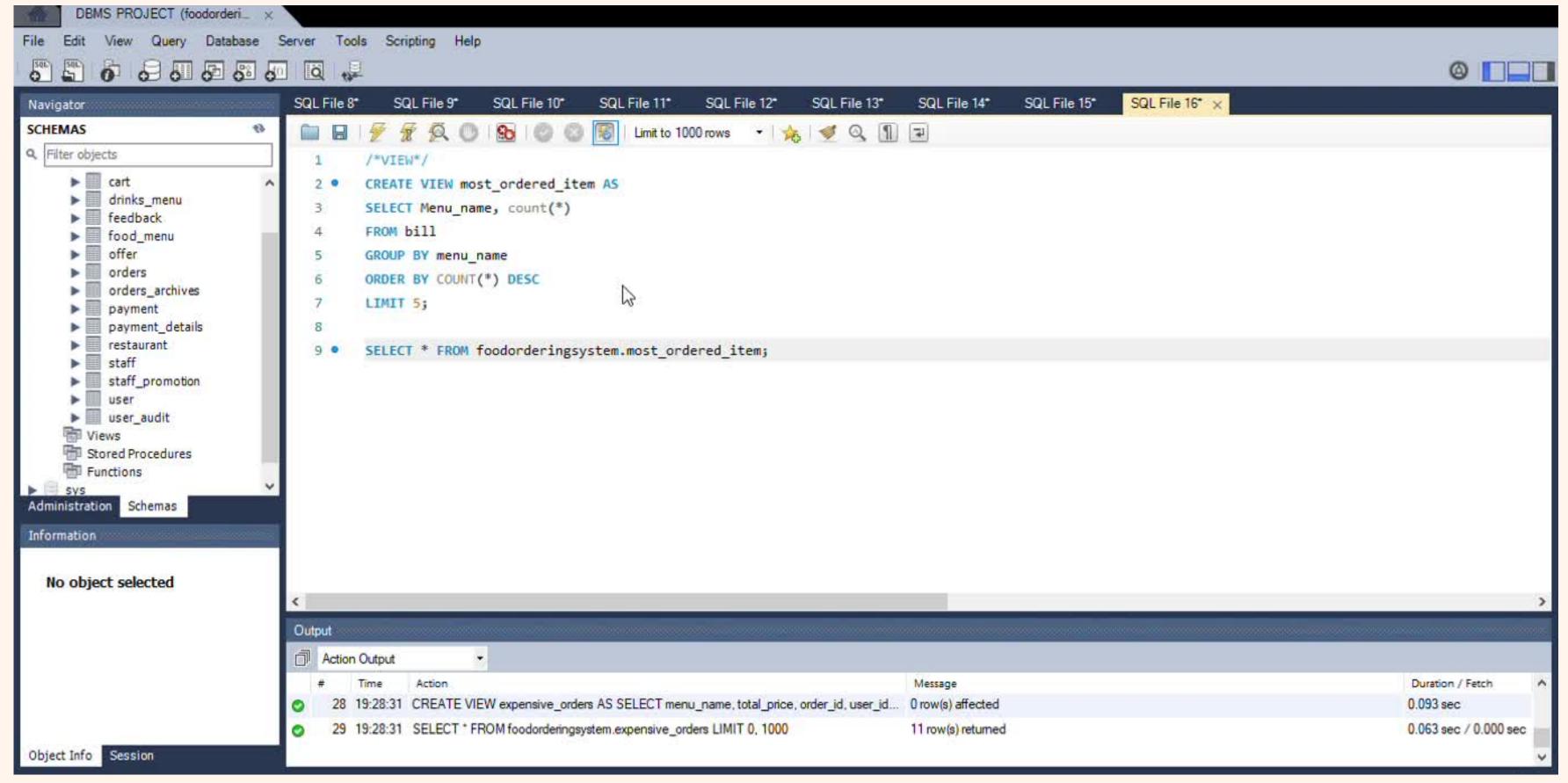
VIEWS



Staff_feedback view shows the service feedbacks received from the users.

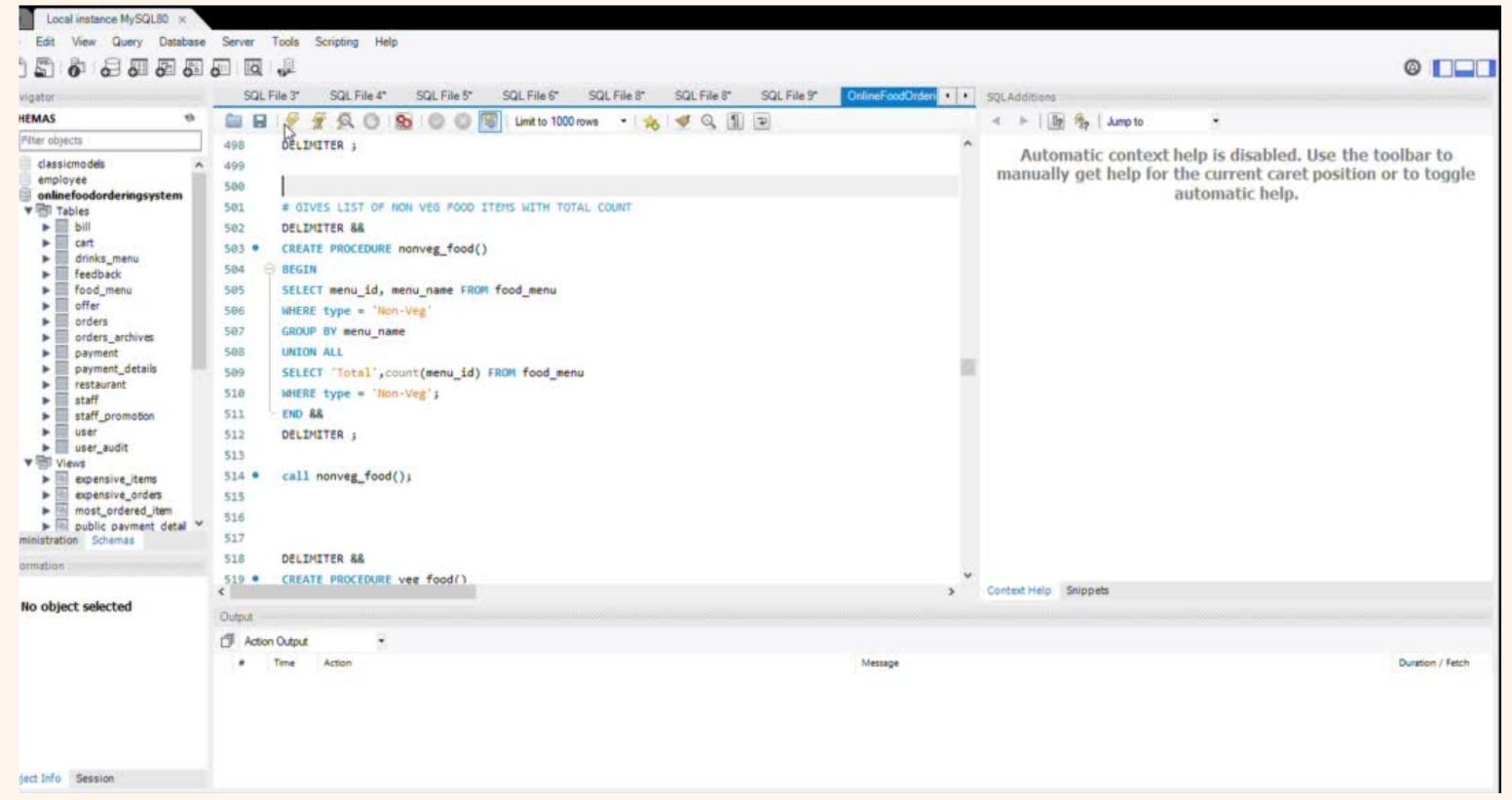


Public_payment_details view doesn't show sensitive information like Cardholder name, CVV, etc.

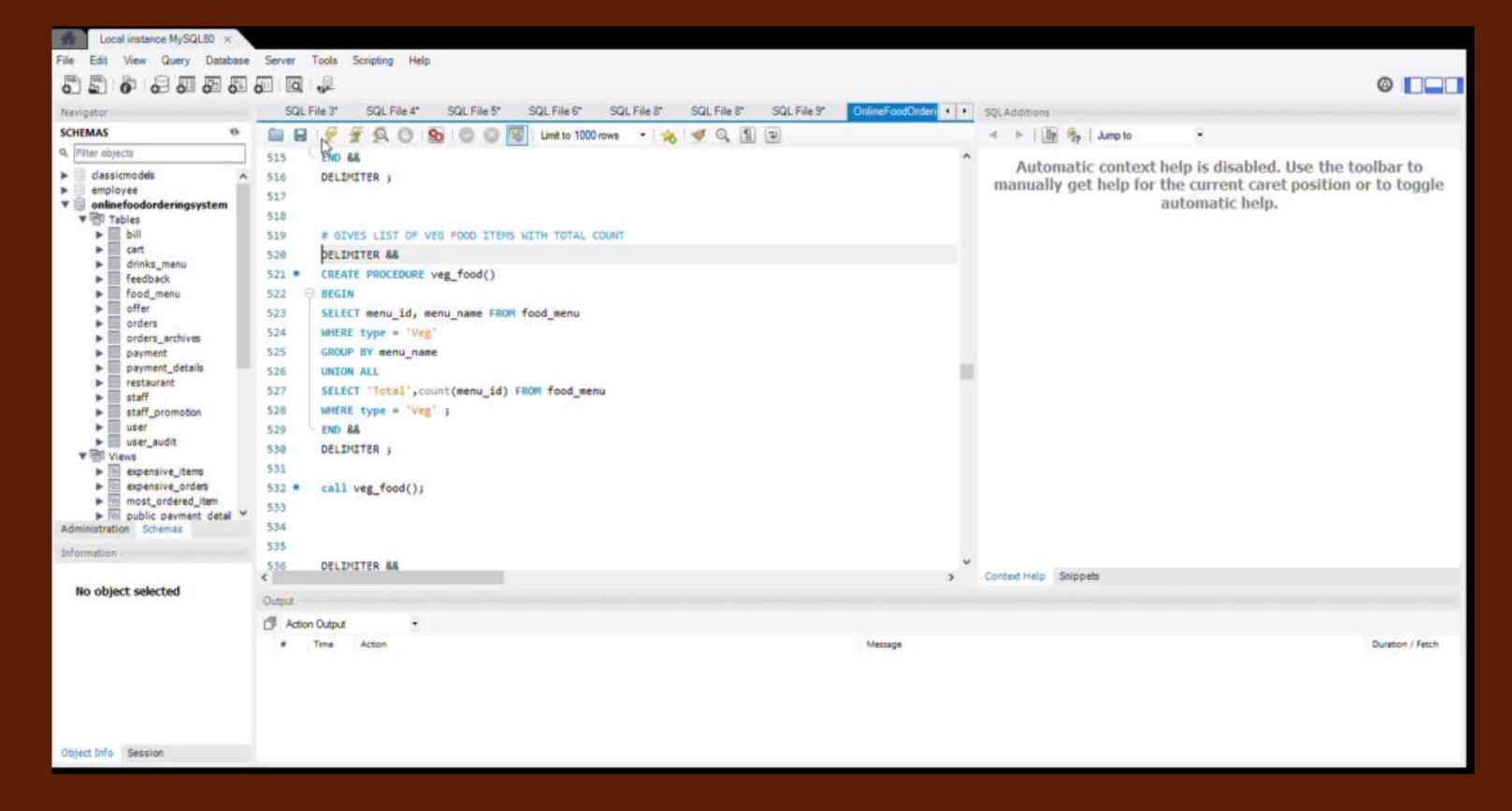


Most_ordered_item view shows the food items which are mostly ordered.

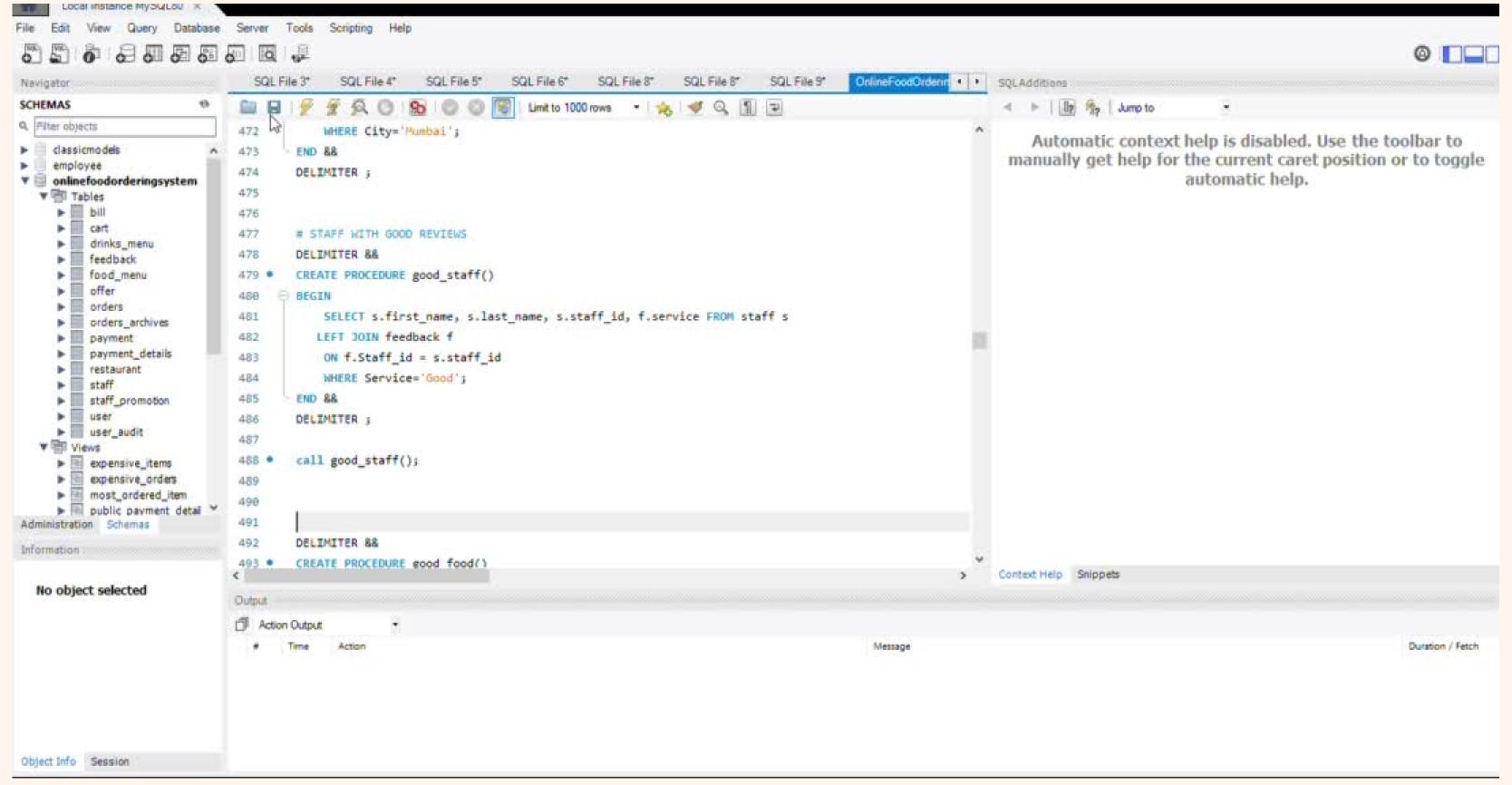
STORED PROCEDURES



Nonveg_food(): This stored procedure gives us all the non-veg food items from the menu and their count.

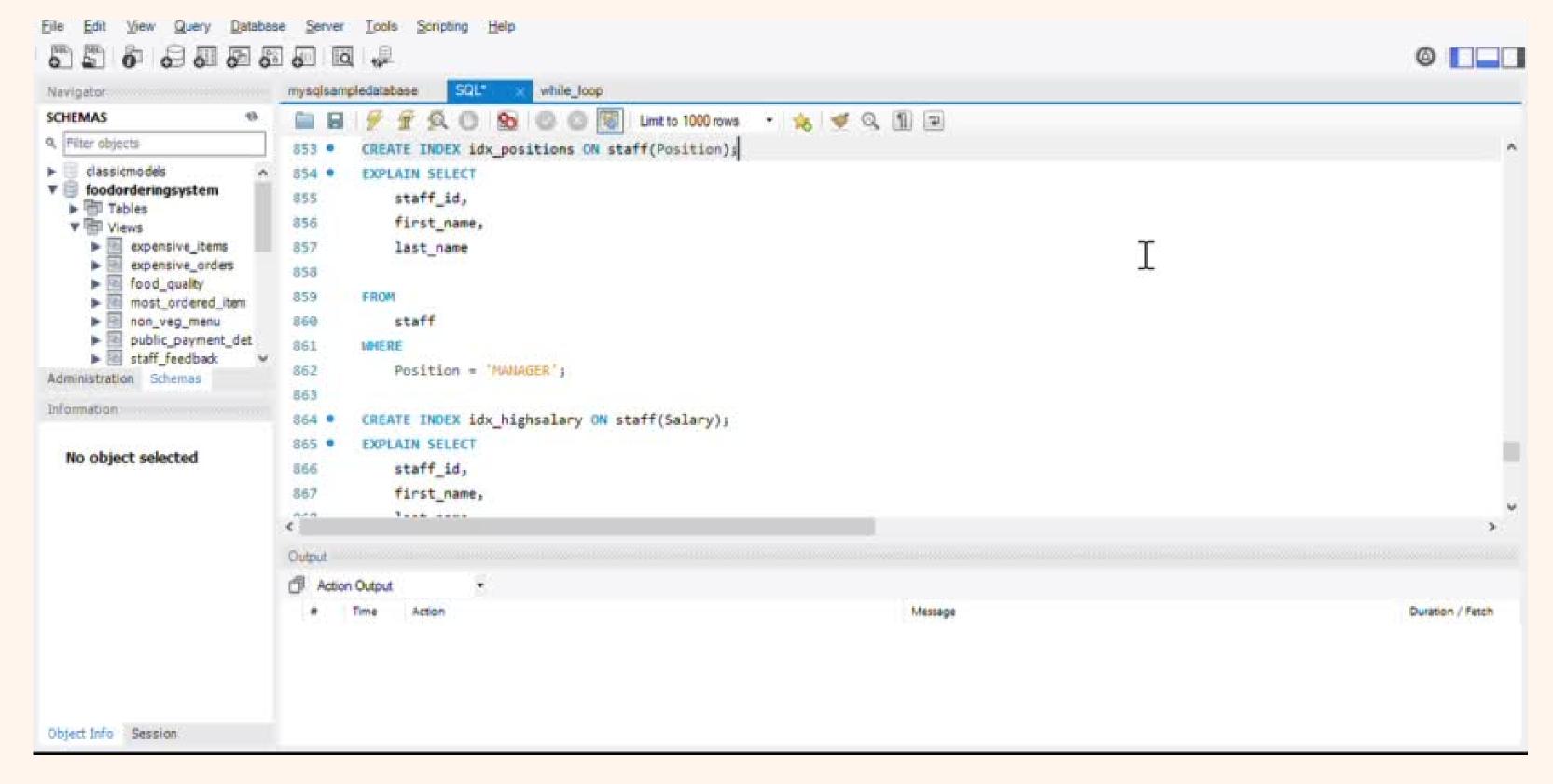


Veg_food(): This stored procedure gives us all the veg food items from the menu and their count.



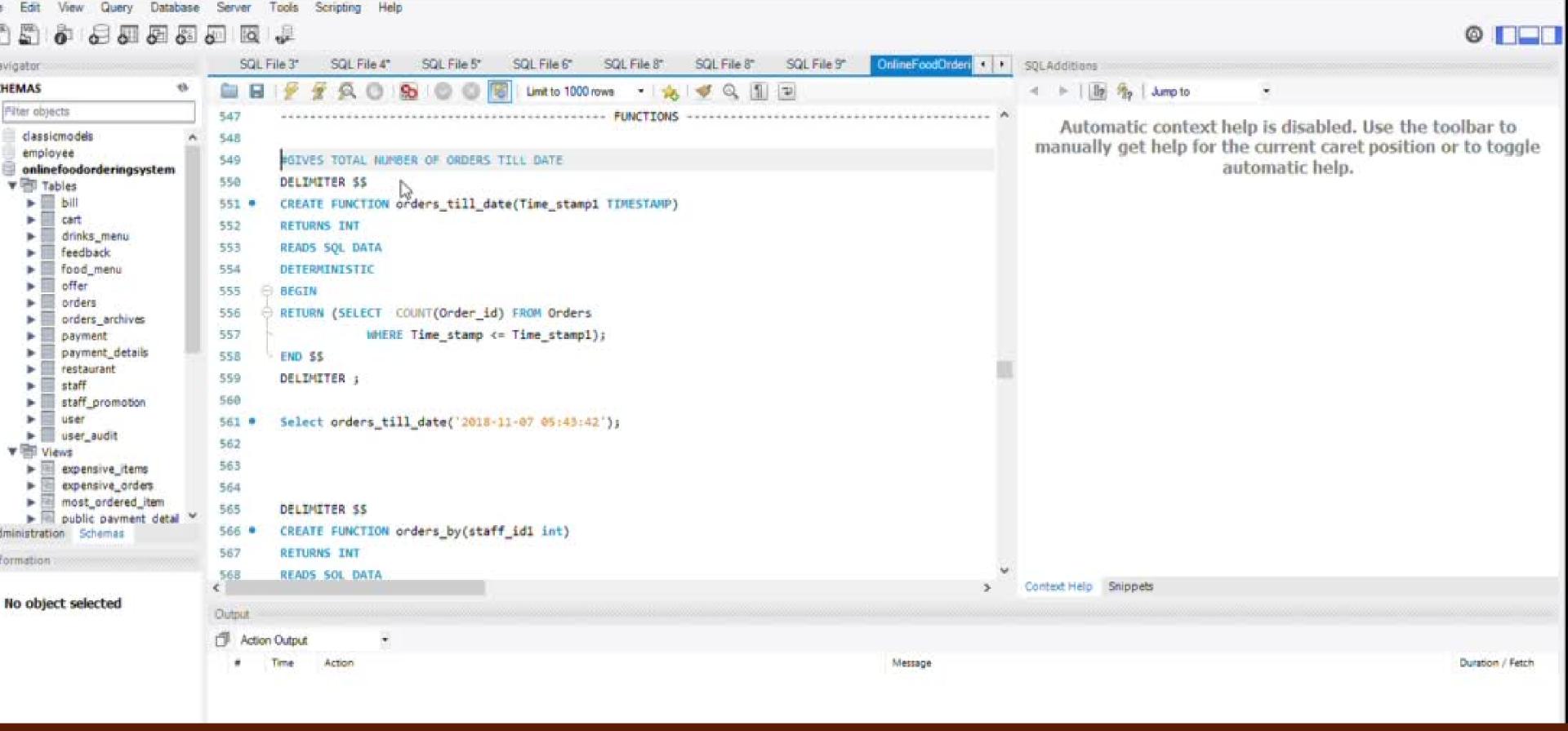
Good_staff(): This stored procedure gives us all the full names of people from staff who got good service feedbacks.

INDEXES

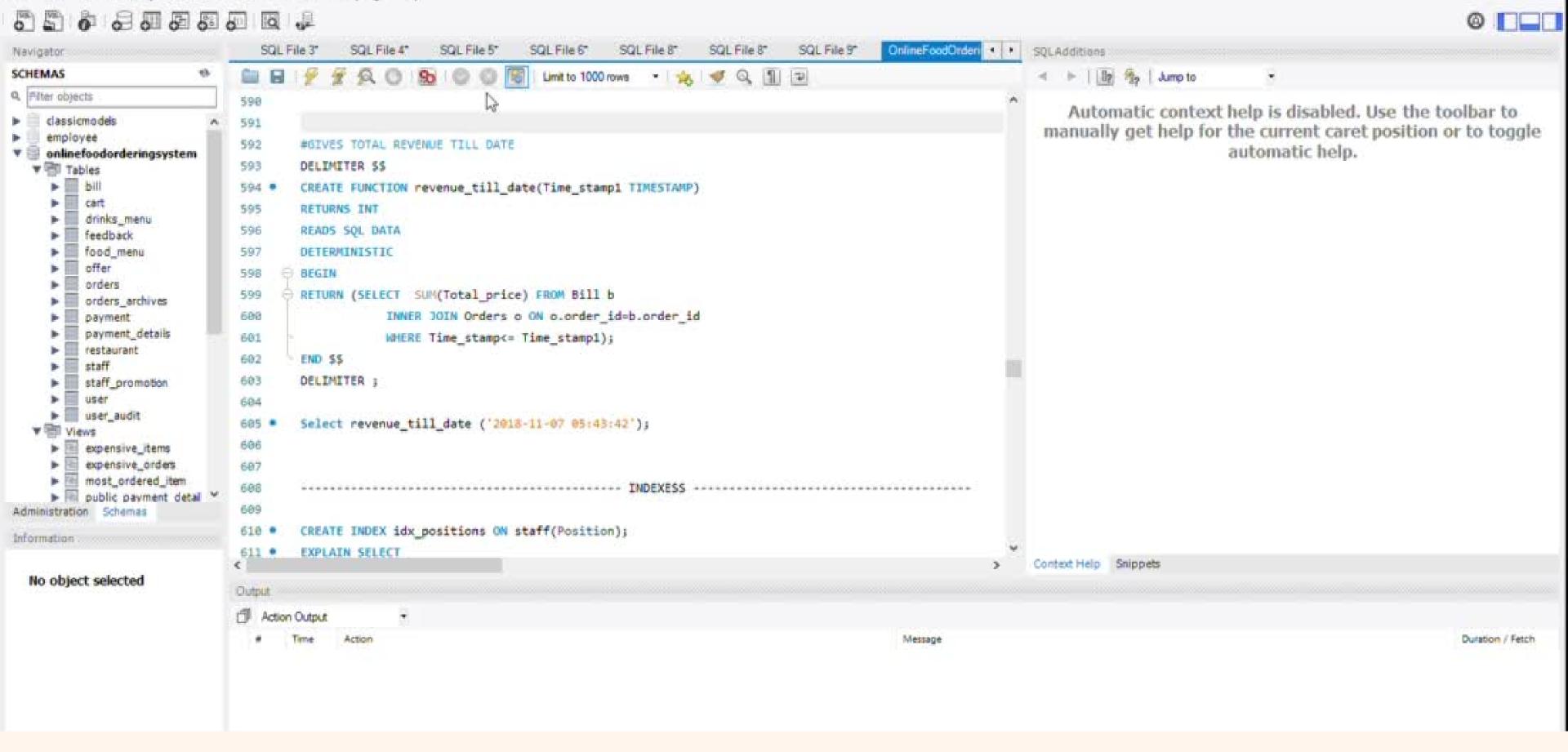


The idx_positions gives us the position of the staff. Specially the staff at the managers position. The idx_highsalary gives us the salary of the staff.

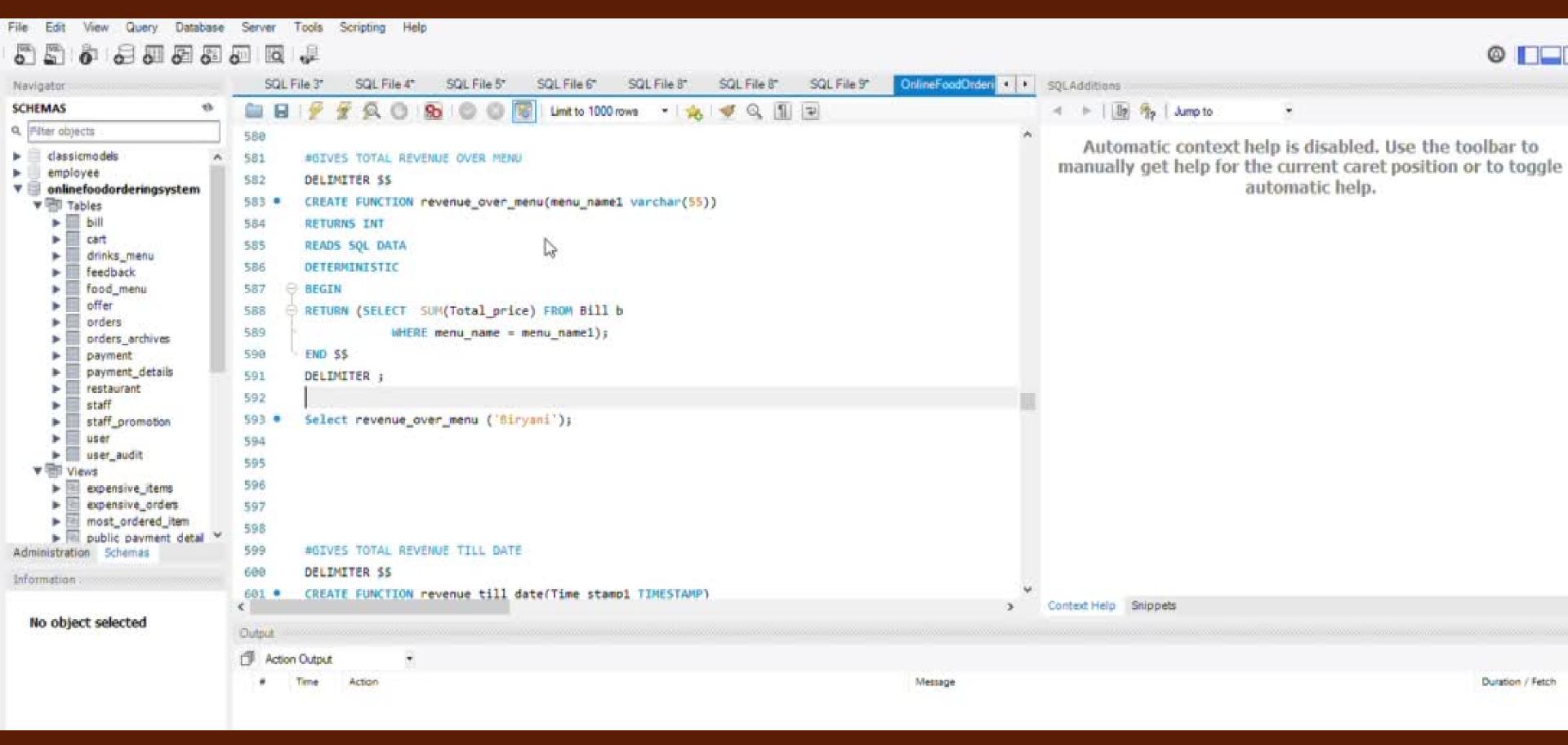
FUNCTIONS



Orders_till_date(): This function gives us a count of a total number of orders uptill a date, with timestamp parameter.

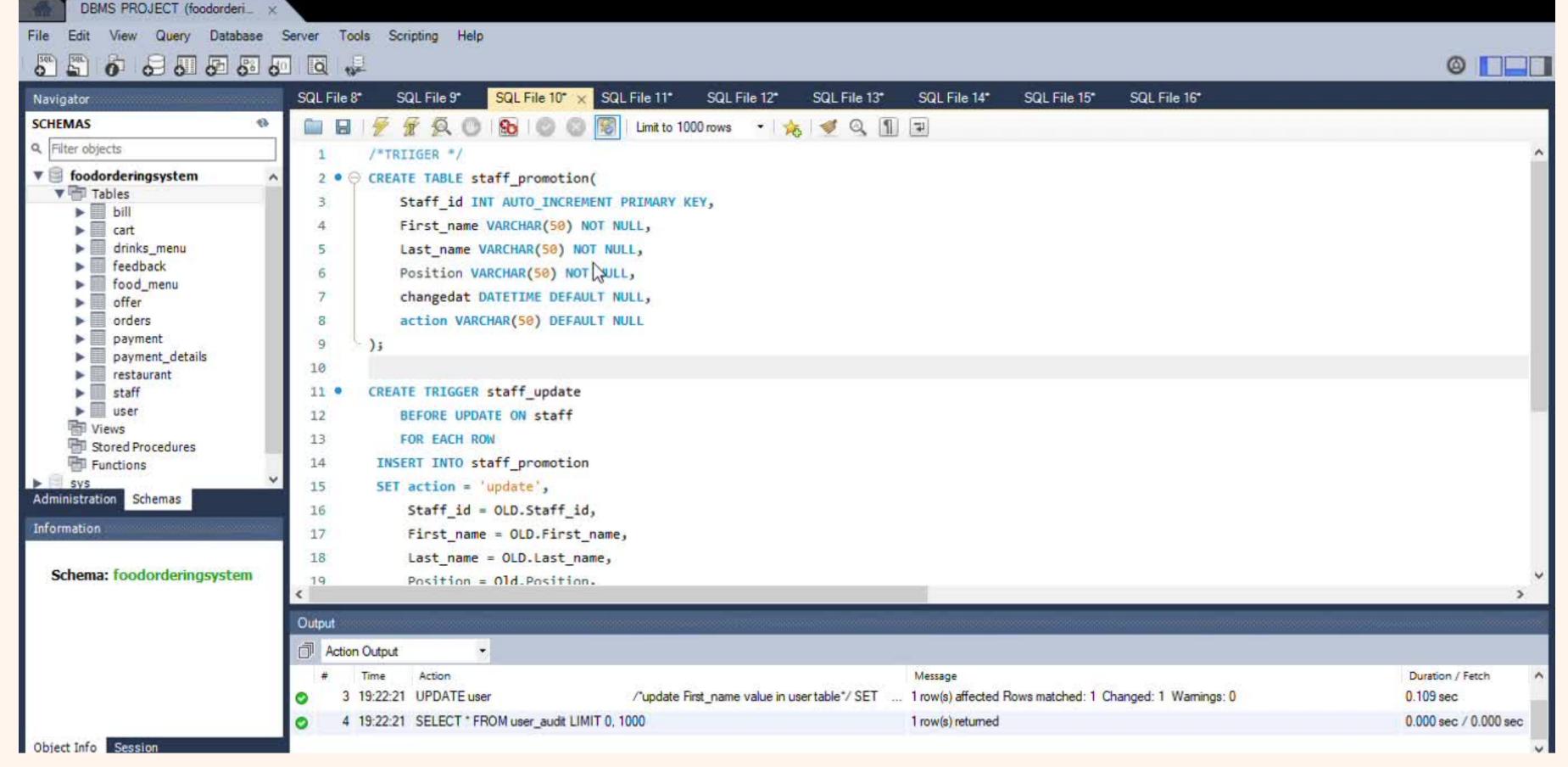


Revenue_till_date(): This function gives us the sum of the total revenue of orders till given date, with the timestamp parameter.

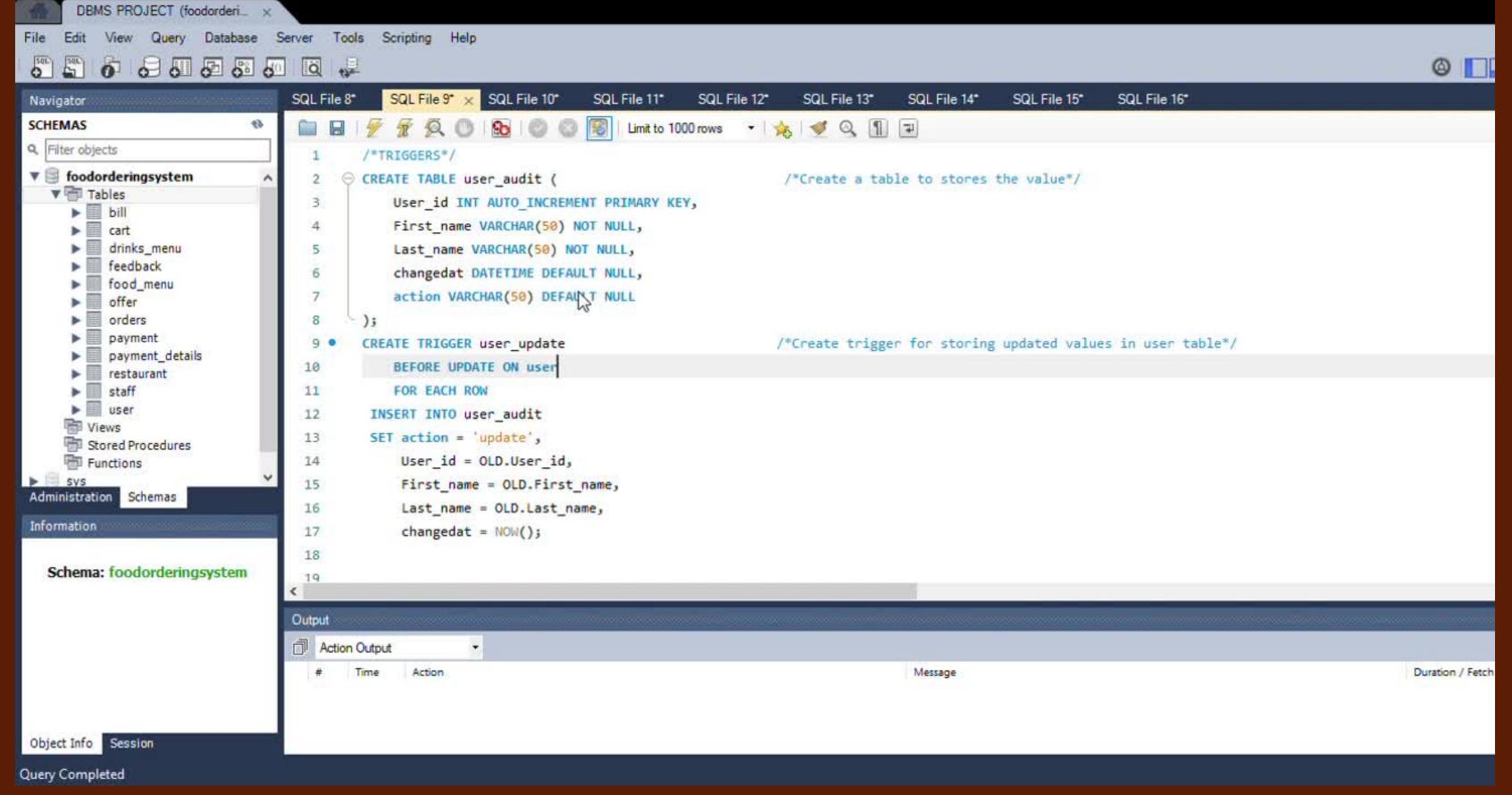


Revenue_over_menu(): This function gives us the sum of total revenue over one food item from menu.

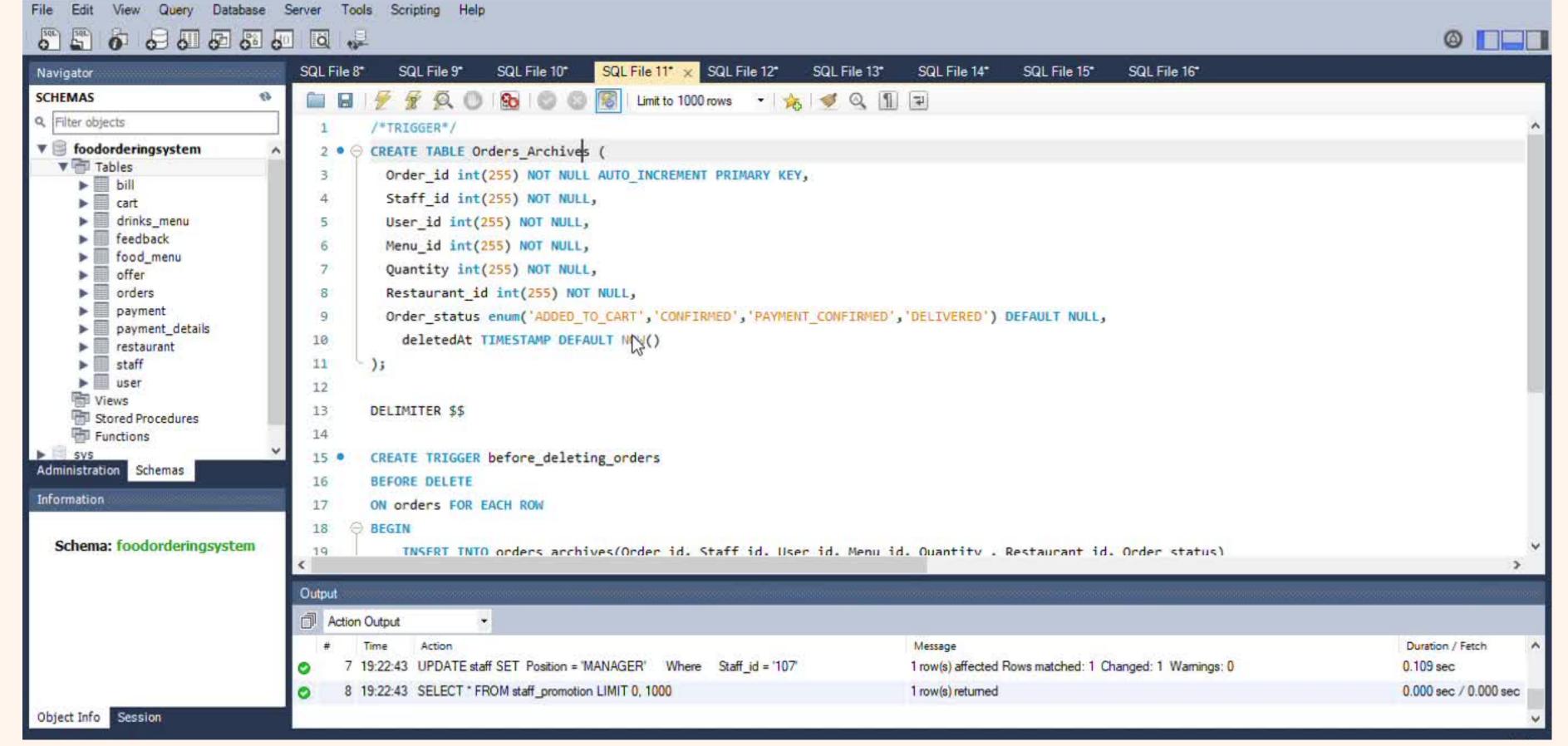
TRIGGERS



Staff_update(): This trigger is invoked when data in the staff table is updated. The updated value is stored in Staff_promotion table.



User_update(): This trigger is invoked when data in the user table is updated, the updated value is stored in user_audit table.



Before_deleting_orders(): This trigger is invoked when a value in orders table is deleted, the deleted value is stored in orders_archives table.

