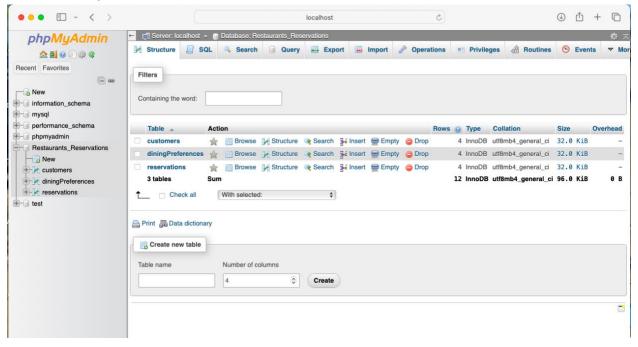
NAME: JAMES OBOUR

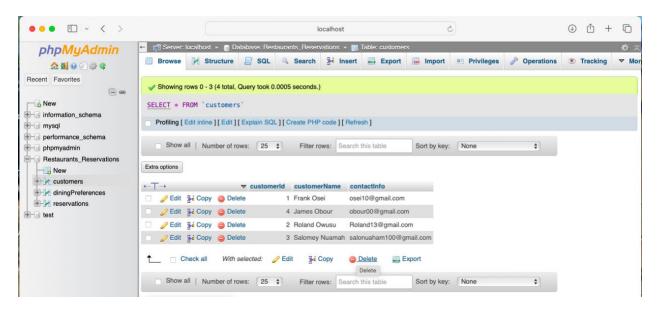
DATE: December 10, 2024

CIS 344 FINAL PROJECT REPORT: RESTAURANT RESERVATION MySQL

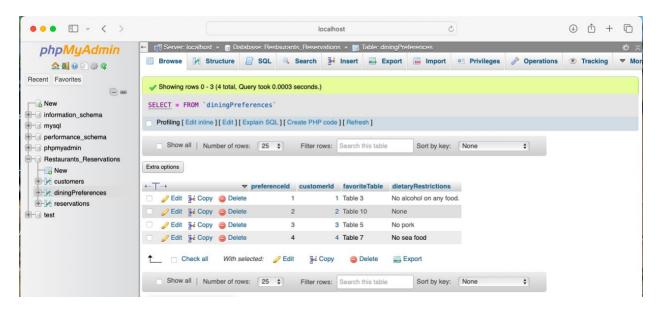
Starting with the MySQL component of the project, I created the restaurant_reservations database and designed three tables: customers, diningpreferences, and reservations. Each table was structured with relevant attributes and associated foreign keys. Afterward, I populated the tables with sample data to validate their initialization and ensure the entries were correctly inserted and visible, as shown below.



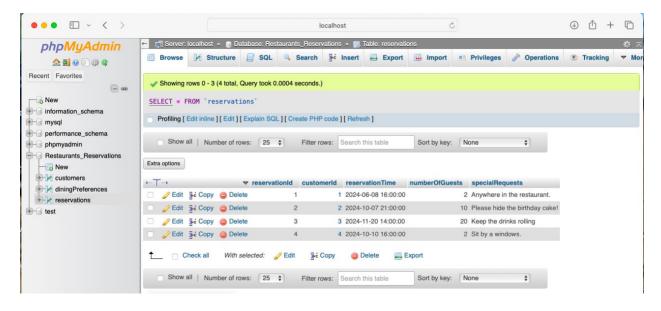
CUSTOMERS



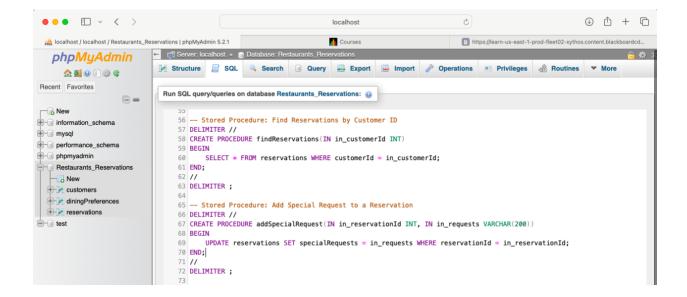
DININGPREFERNCES



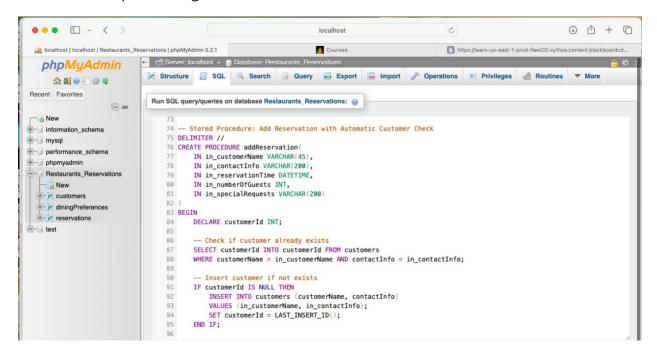
RESERVATIONS



Next, I created two stored procedures: findReservations and addSpecialRequest. The findReservations procedure uses an existing customer ID to retrieve the corresponding reservation, while the addSpecialRequest procedure utilizes an existing reservation to add a special request.



The next stored procedure is the addReservation procedure. This procedure first checks whether the customer ID exists. If the customer ID is not found, a new customer ID is created before proceeding to make the reservation.



PHP: I started off by modifying the restaurantDatabase.php file with the appropriate MySQL Credentials:

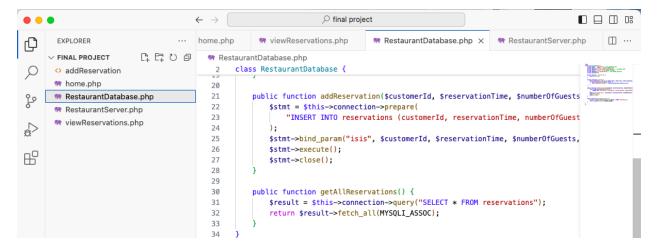
```
← →
                                                             EXPLORER
                                    addReservation
                                                       m home.php
                                                                      viewReservations.php

✓ FINAL PROJECT

                                     RestaurantDatabase.php
     addReservation
                                           class RestaurantDatabase {
      nome.php
                                              private $host = "localhost"; // Your database host
      RestaurantDatabase.php
                                              private $port = "3306"; // Default MySQL port
      RestaurantServer.php
                                       5
                                              private $database = "Restaurants_Reservations"; // Database name
                                              private $user = "root"; // Your MySQL username
      viewReservations.php
                                              private $password = "YourPassword"; // Your MySQL password
                                              private $connection;
品
                                      10
                                              public function __construct() {
                                      11
                                                  $this->connect();
                                      12
```

To first communicate with MySQL, I used the same port number database that's in MySQL so php can retrieve the information.

Next, I added methods in php to do various tasks such as adding and viewing reservations, Adding customer. Each method in this portion of the php code is similar except for changing the "query" portion to each method's respective statements that correspond to the statements in MySQL.



Some of the additional functions I implemented are getCustomerPreference, addSpecialRequest, findReservation, and deleteReservation.

Now in the restuarantServer.php file

Mainly I called the methods from the restuarantDatabase.php and made sure it was visible on the local host web page. For adding reservation, in do_POST I initialize the variables from the reservation table and then call the method to add a new reservation from thedatabase file

```
EXPLORER
                                                                                                    ··· home.php
                                                                                                                                                        viewReservations.php
                                                                                                                                                                                                                                    RestaurantDatabase.php
                                                                                                                                                                                                                                                                                                                     RestaurantServer.php × 📗 …
Ф
                                                                           中に甘む自
                V FINAL PROJECT
                                                                                                                      RestaurantServer.php
                                                                                                                                         class RestaurantServer {
                  addReservation
                                                                                                                          25
                    m home.php
                                                                                                                         26
                                                                                                                                                    private function home() {
                   RestaurantDatabase.php
                                                                                                                         27
                                                                                                                                                              include 'templates/home.php';
                  RestaurantServer.php
                                                                                                                        28
                    viewReservations.php
                                                                                                                         29
                                                                                                                                                    private function addReservation() {
                                                                                                                         30
                                                                                                                                                                if ($ SERVER['REQUEST METHOD'] === 'POST') {
                                                                                                                         31
BP 
                                                                                                                         32
                                                                                                                                                                           $customerId = $_POST['customer_id'];
                                                                                                                                                                           $reservationTime = $_POST['reservation_time'];
                                                                                                                         33
                                                                                                                                                                           $numberOfGuests = $_POST['number_of_guests'];
                                                                                                                         34
                                                                                                                         35
                                                                                                                                                                           $specialRequests = $_POST['special_requests'];
                                                                                                                         36
                                                                                                                         37
                                                                                                                                                                           $this->db->addReservation($customerId, $reservationTime, $numberOfGue
                                                                                                                         38
                                                                                                                                                                           header (\verb"Location: index.php?action=viewReservations\&message=Reservation=viewReservations\&message=Reservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservation=viewReservati
                                                                                                                         39
                                                                                                                                                                } else {
                                                                                                                          40
                                                                                                                                                                           include 'templates/addReservation.php';
                                                                                                                         41
                                                                                                                          42
                                                                                                                          43
                                                                                                                          44
                                                                                                                                                     private function viewReservations() {
                                                                                                                          45
                                                                                                                                                                $reservations = $this->db->getAllReservations();
                                                                                                                          46
                                                                                                                                                                include 'templates/viewReservations.php';
                                                                                                                         47
                                                                                                                          48
                                                                                                                          49
                                                                                                                         50
                                                                                                                                         $server = new RestaurantServer();
                                                                                                                         51
                                                                                                                                         $server->handleRequest();
                                                                                                                         52
```

PLATFORM

