# **SQL PROJECT- Zomato Database Management System**

### **Database Creation**

CREATE DATABASE zomato; USE zomato;

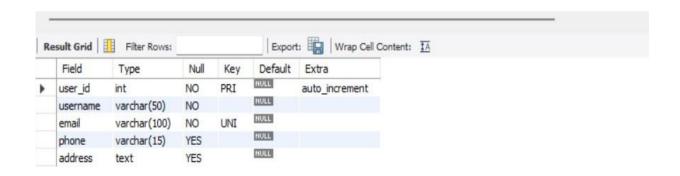
# **Creating Tables**

### 1. Users Table

CREATE TABLE Users (user\_id int PRIMARY KEY AUTO\_INCREMENT, username varchar(50) NOT NULL, email varchar (100) NOT NULL UNIQUE, phone varchar (15), address TEXT);

# ➤ DESC Users;

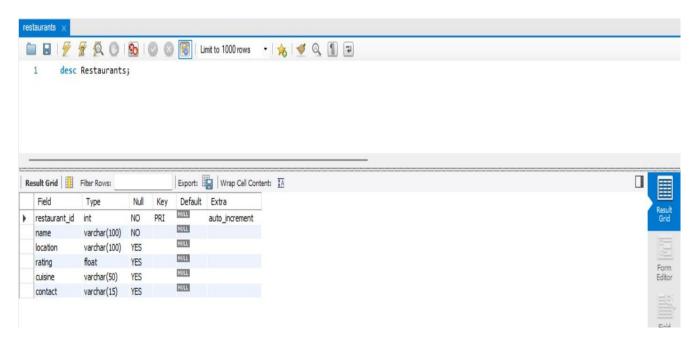




#### 2. Restaurants Table

CREATE TABLE Restaurants (restaurant\_id int PRIMARY KEY AUTO\_INCREMENT, name varchar(100) NOT NULL, varchar (100), rating FLOAT CHECK (rating >= 0 AND rating <= 5), cuisine varchar(50), contact varchar(15));

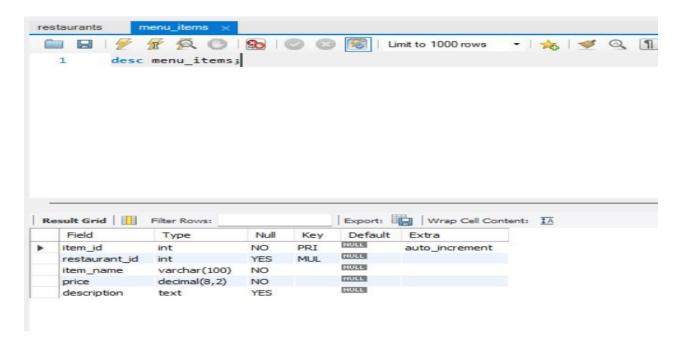
### > DESC Restaurants;



# 3. Menu\_Items Table

CREATE TABLE Menu\_Items (item\_id int PRIMARY KEY AUTO\_INCREMENT, restaurant\_id INT, item\_name varchar(100) NOT NULL, price DECIMAL(8, 2) NOT NULL, description TEXT, FOREIGN KEY (restaurant\_id) REFERENCES Restaurants(restaurant\_id) ON DELETE CASCADE);

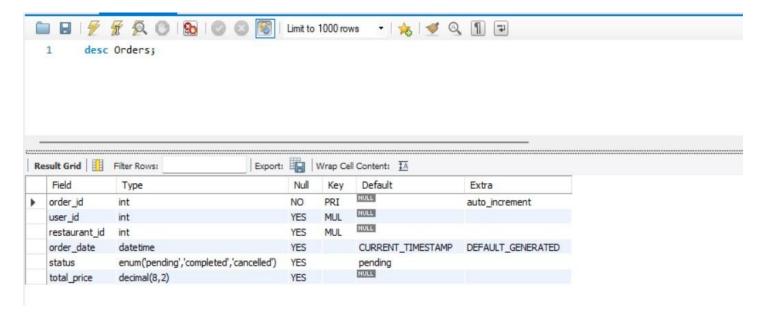
### DESC Menu\_Items;



### 4. Orders Table

CREATE TABLE Orders (order\_id int PRIMARY KEY AUTO\_INCREMENT, user\_id int, restaurant\_id int, order\_date DATETIME DEFAULT CURRENT\_TIMESTAMP, status ENUM('Pending', 'Completed', 'Cancelled') DEFAULT 'Pending', total\_price DECIMAL(8, 2), FOREIGN KEY (user\_id) REFERENCES Users(user\_id) ON DELETE CASCADE, FOREIGN KEY (restaurant\_id) REFERENCES Restaurants(restaurant\_id) ON DELETE CASCADE);

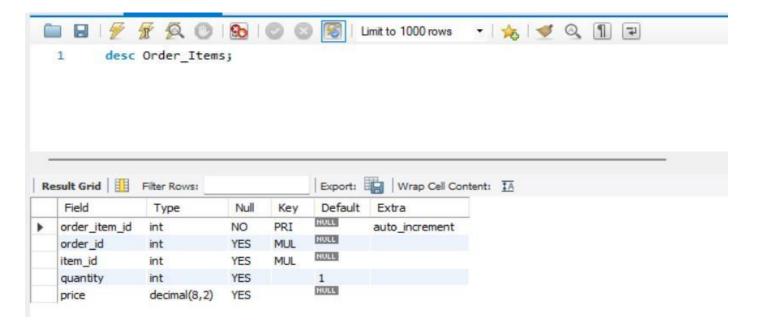
### > DESC Orders:



### 5. Order\_Items Table

CREATE TABLE Order\_Items (order\_item\_id int PRIMARY KEY AUTO\_INCREMENT, order\_id int, item\_id int, quantity int DEFAULT 1, price DECIMAL(8, 2), FOREIGN KEY (order\_id) REFERENCES Orders(order\_id) ON DELETE CASCADE, FOREIGN KEY (item\_id) REFERENCES Menu\_Items(item\_id) ON DELETE CASCADE);

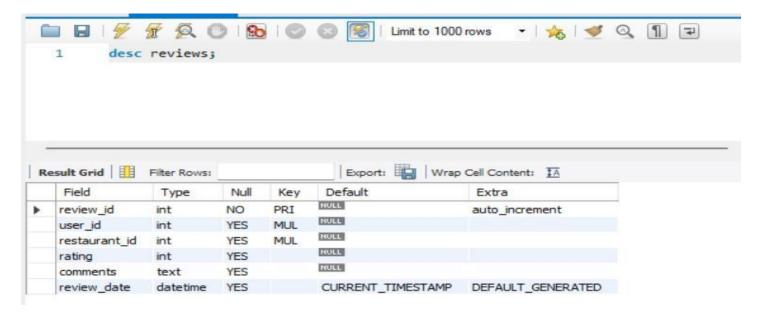
### > DESC Order Items;



### 6. Reviews Table

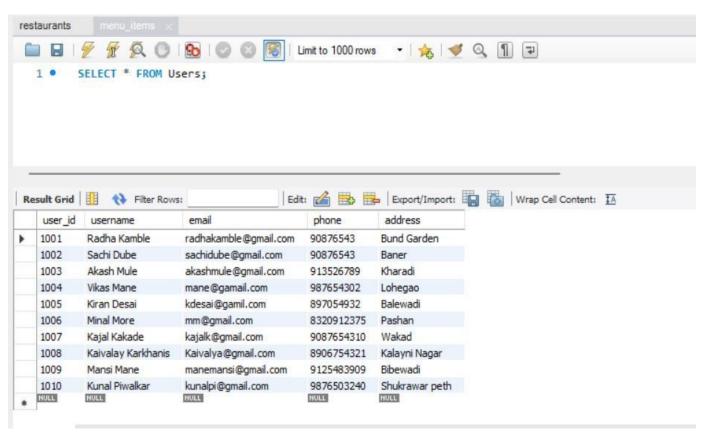
CREATE TABLE Reviews (review\_id INT PRIMARY KEY AUTO\_INCREMENT, user\_id int, restaurant\_id int, rating INT CHECK (rating >= 0 AND rating <= 5), comments TEXT, review\_date DATETIME DEFAULT CURRENT\_TIMESTAMP, FOREIGN KEY (user\_id) REFERENCES Users(user\_id) ON DELETE CASCADE, FOREIGN KEY (restaurant\_id) REFERENCES Restaurants(restaurant\_id) ON DELETE CASCADE);

### > DESC Reviews:

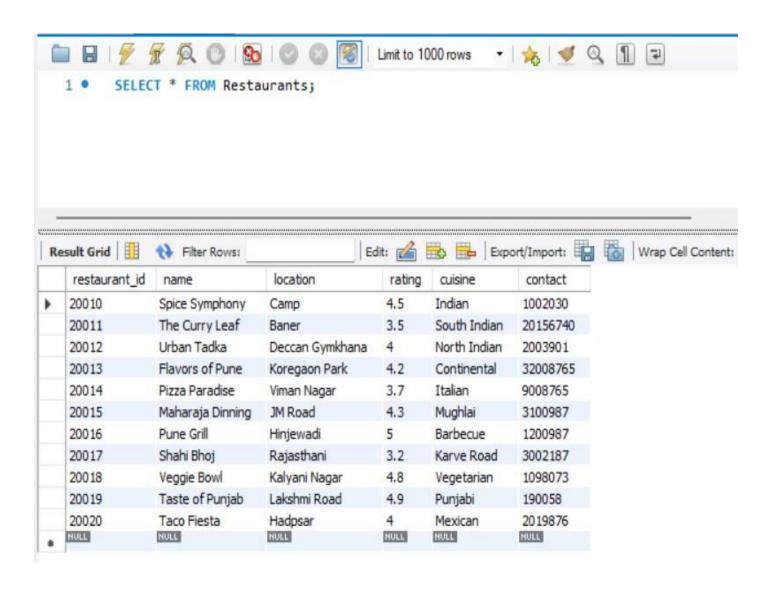


AFTER INSERTING ALL VALUES FOR ALL TABLES RECORDS ARE AS FOLLOWS:-

### Table for User :-



### Table for Restaurants :-

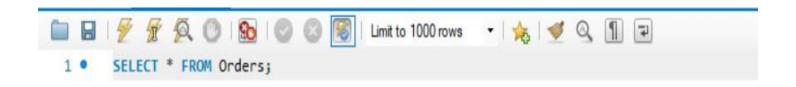


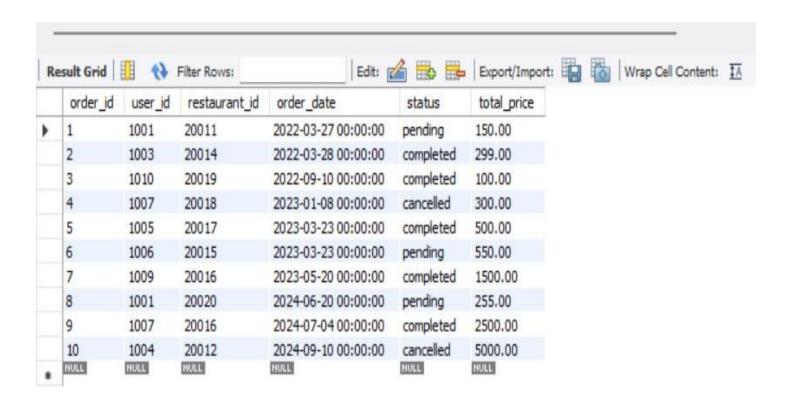
# Table for Menu\_Items :-



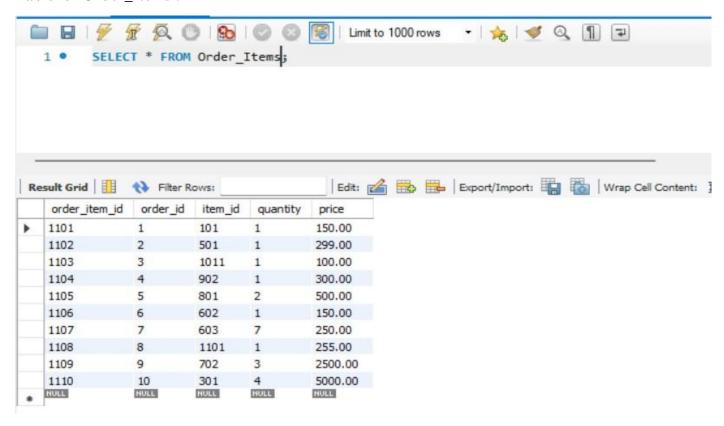
Re	esult Grid	Filter	Rows:	Edit:	Export/Import: Wrap Cell
	item_id	restaurant_id	item_name	price	description
١	101	20010	Dal Makhani	249.00	Slow-cooked black lentils with cream and butter
	102	20010	Paneer Tikka	299.00	Grilled cottage cheese marinated in Indian spices
	103	20010	Garlic Naan	99.00	Soft Indian bread with garlic topping
	201	20011	Masala Dosa	150.00	Crispy dosa stuffed with spiced potato filling
	202	20011	Sambar Vada	120.00	Fried lentil doughnuts served with sambar and c
	301	20012	Tandoori Chicken	399.00	Chicken marinated in yogurt and spices, cooked
	302	20012	Chole Bhature	199.00	Spiced chickpeas served with deep-fried bread
	401	20013	Grilled Chicken Steak	499.00	Chicken breast served with mashed potatoes a
	501	20014	Margherita Pizza	299.00	Classic pizza with mozzarella and tomato sauce
	502	20014	Pepperoni Pizza	399.00	Pizza topped with pepperoni and cheese
	601	20015	Hyderabadi Biryani	349.00	Fragrant basmati rice cooked with spices and ch
	602	20015	Shahi Tukda	150.00	Rich bread pudding topped with nuts and saffron
	603	20015	Roomali Roti	50.00	Thin, soft flatbread served with curries
	701	20016	BBQ Chicken Wings	299.00	Chicken wings grilled with smoky barbecue sauce
	702	20016	Chocolate Lava Cake	199.00	Warm cake with gooey chocolate center
	801	20017	Dal Baati Churma	299.00	Traditional Rajasthani dish with lentils and whea
	802	20017	Jalebi with Rabri	150.00	Crispy fried sweets soaked in syrup and served
	901	20018	Grilled Paneer Wrap	249.00	Whole wheat wrap stuffed with grilled paneer a
	902	20018	Veggie Pasta Prima	349.00	Pasta tossed with fresh seasonal vegetables in
	1010	20019	Butter Paneer Masala	349.00	Creamy paneer curry with rich Punjabi spices
	1011	20019	Lassi	100.00	Thick and creamy Punjabi yogurt drink
	1101	20020	Classic Beef Tacos	299.00	Soft tacos filled with seasoned beef, lettuce, an
	NULL	NULL	NULL	NULL	NULL

### **Table for Orders:**

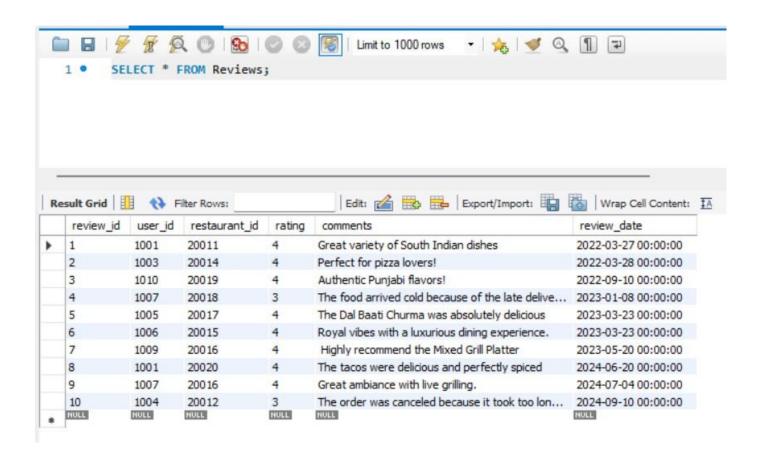




### Table for Order Items:-

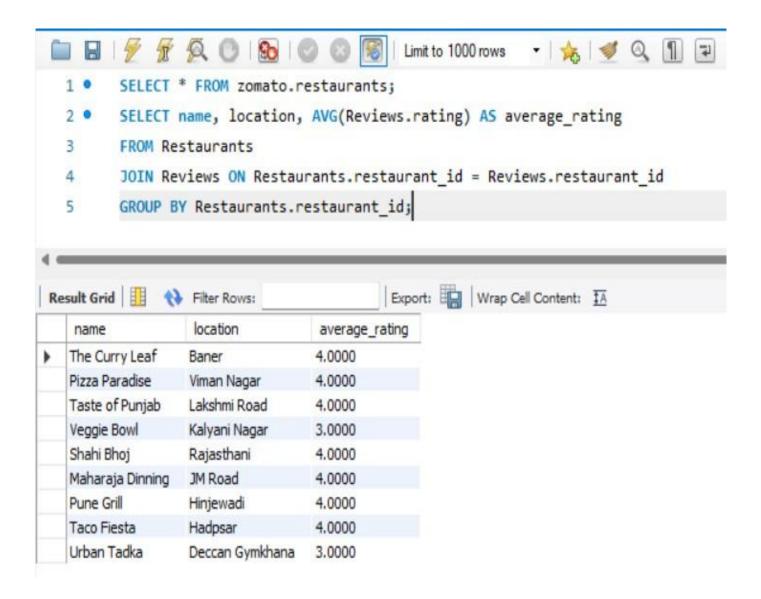


### **Table for Reviews:-**

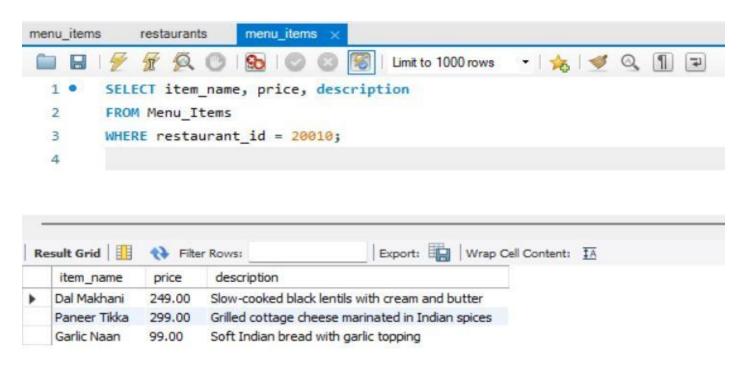


# Queries:

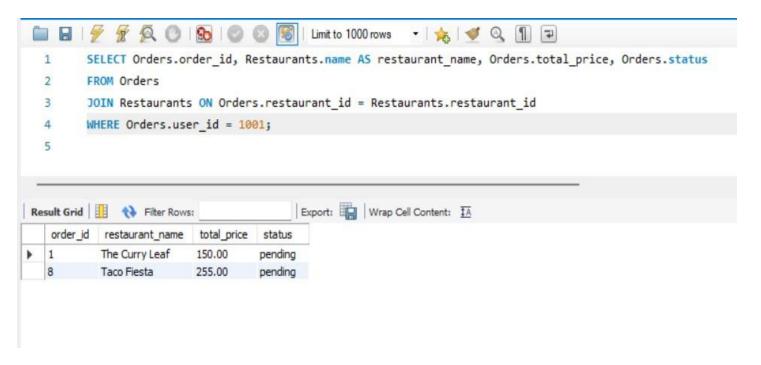
# 1. Get all restaurants and their average rating:



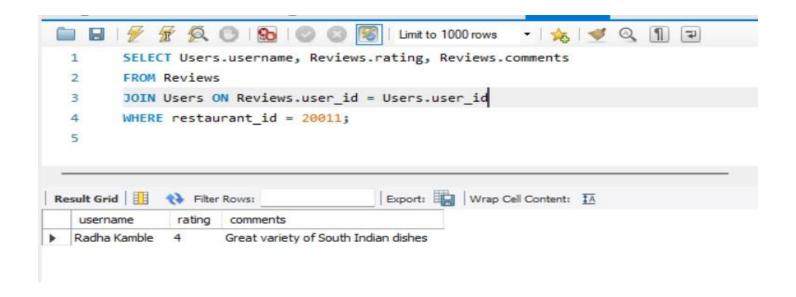
### 2. Find all menu items of a restaurant:



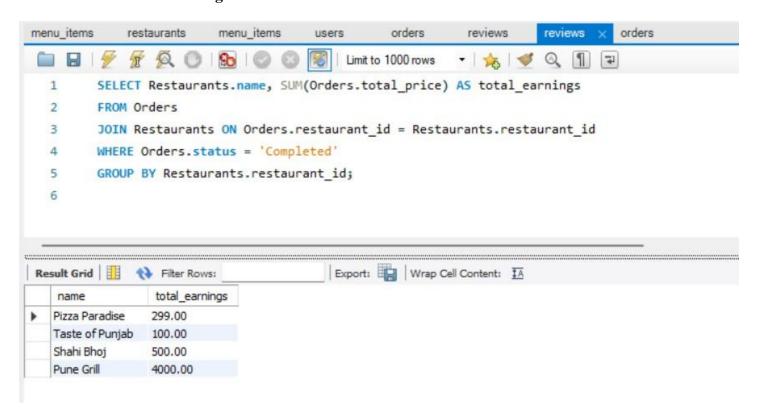
### 3. Retrieve all orders by a user:



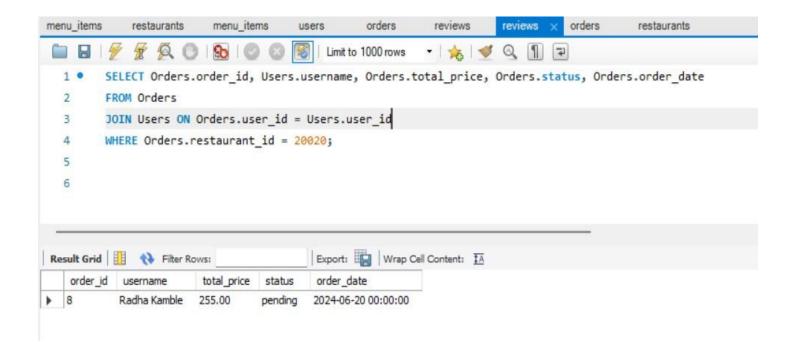
### 4. Display all reviews for a restaurant:



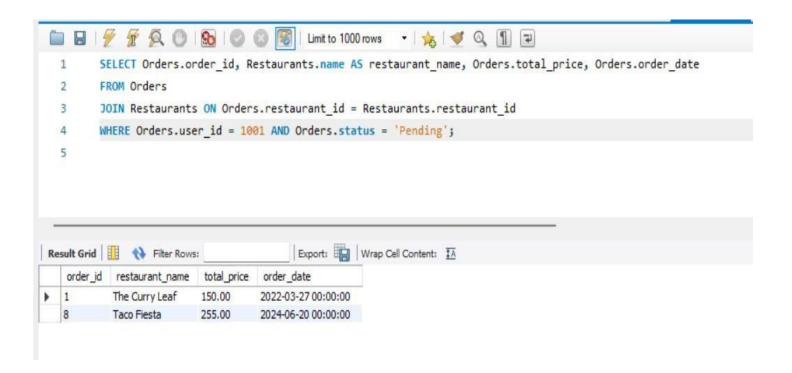
### 5. Calculate total earnings for each restaurant:



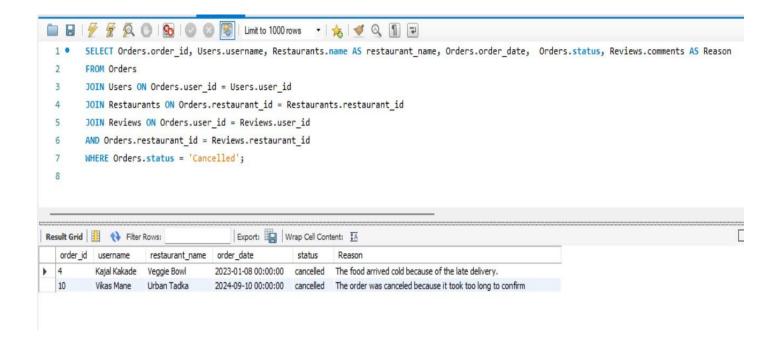
### 6. List all orders for a specific restaurant:



# 7. Retrieve all pending orders for a specific user:



### 8. Find all canceled orders and the reason for cancellation:



# 9. Find all restaurants offering a specific cuisine:

