DBMS ASSIGNMENT

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Question 2:

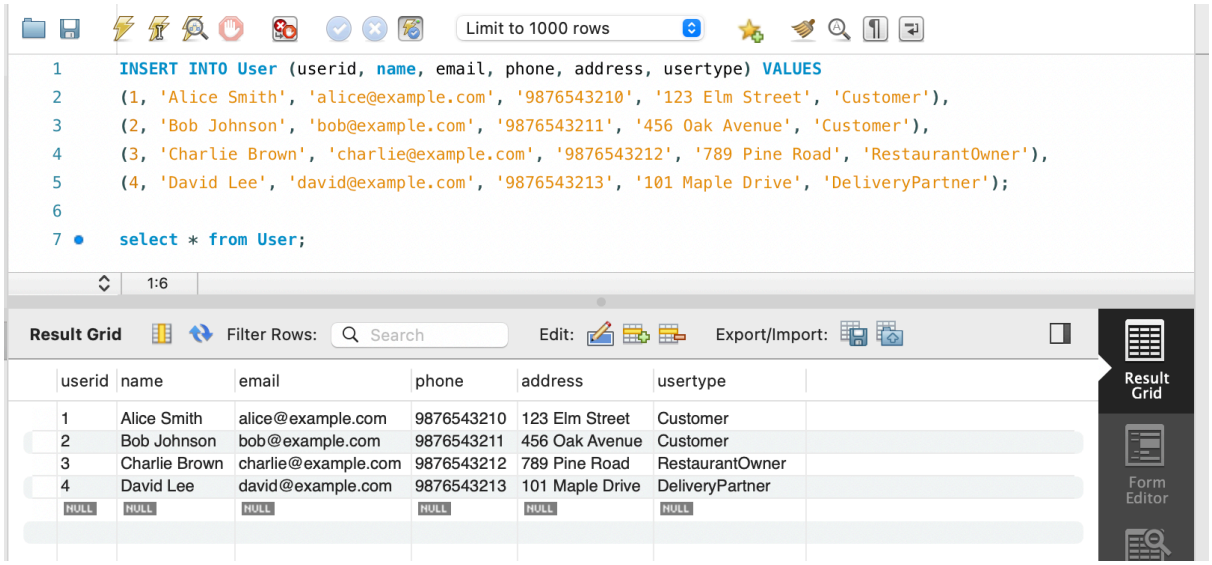
Part B:

Once you have created the database and tables, we want you populate your tables with some mock data. You can use any programming language for this or produce a SQL script/statement to insert the data.
We want you think about the data types, lengths of fields, constraints, keys etc. while you are at it and make it as real-world ready as it can be.

Inserting Mock Data in the tables: (Using SQL Queries)

1. **User table**

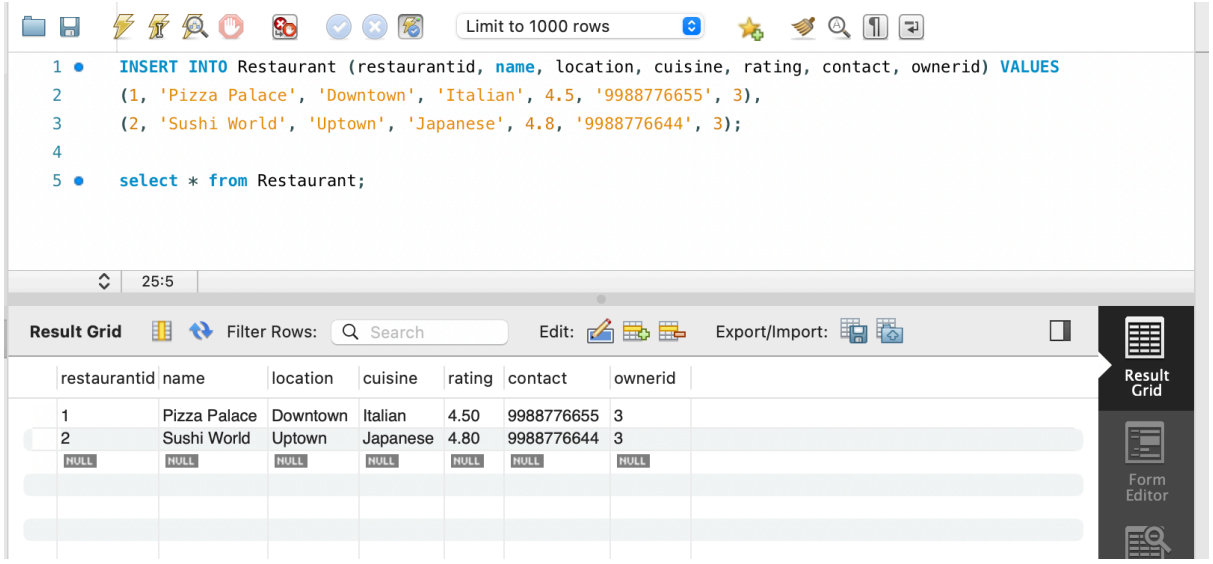
```
INSERT INTO User (userid, name, email, phone,
address, usertype) VALUES
(1, 'Alice Smith', 'alice@example.com', '9876543210',
'123 Elm Street', 'Customer'),
(2, 'Bob Johnson', 'bob@example.com', '9876543211',
'456 Oak Avenue', 'Customer'),
(3, 'Charlie Brown', 'charlie@example.com',
'9876543212', '789 Pine Road', 'RestaurantOwner'),
(4, 'David Lee', 'david@example.com', '9876543213',
'101 Maple Drive', 'DeliveryPartner');
```



userid	name	email	phone	address	usertype
1	Alice Smith	alice@example.com	9876543210	123 Elm Street	Customer
2	Bob Johnson	bob@example.com	9876543211	456 Oak Avenue	Customer
3	Charlie Brown	charlie@example.com	9876543212	789 Pine Road	RestaurantOwner
4	David Lee	david@example.com	9876543213	101 Maple Drive	DeliveryPartner
NULL	NULL	NULL	NULL	NULL	NULL

2. Restaurant table

```
INSERT INTO Restaurant (restaurantid, name, location,
cuisine, rating, contact, ownerid) VALUES
(1, 'Pizza Palace', 'Downtown', 'Italian', 4.5,
'9988776655', 3),
(2, 'Sushi World', 'Uptown', 'Japanese', 4.8,
'9988776644', 3);
```



3. MenuItem table

```
INSERT INTO MenuItem (itemid, restaurantid, name,
price, preparationtime, availability, category)
VALUES
(1, 1, 'Pepperoni Pizza', 12.99, 20, TRUE, 'Main
Course'),
(2, 1, 'Margherita Pizza', 10.99, 15, TRUE, 'Main
Course'),
(3, 2, 'California Roll', 8.99, 10, TRUE,
'Appetizer'),
(4, 2, 'Spicy Tuna Roll', 9.99, 12, TRUE,
'Appetizer');
```

```
INSERT INTO MenuItem (itemid, restaurantid, name, price, preparationtime, availability, category) VALUES
(1, 1, 'Pepperoni Pizza', 12.99, 20, TRUE, 'Main Course'),
(2, 1, 'Margherita Pizza', 10.99, 15, TRUE, 'Main Course'),
(3, 2, 'California Roll', 8.99, 10, TRUE, 'Appetizer'),
(4, 2, 'Spicy Tuna Roll', 9.99, 12, TRUE, 'Appetizer');

select * from MenuItem;
```

Result Grid

itemid	restaurantid	name	price	preparationti...	availability	category
1	1	Pepperoni Pizza	12.99	20	1	Main Course
2	1	Margherita Pizza	10.99	15	1	Main Course
3	2	California Roll	8.99	10	1	Appetizer
4	2	Spicy Tuna Roll	9.99	12	1	Appetizer
NULL	NULL	NULL	NULL	NULL	NULL	NULL

4. Discount table

```
INSERT INTO Discount (discountid, description, percentage, code) VALUES
(1, 'New Year Discount', 10.00, 'NEWYEAR10'),
(2, 'Weekend Special', 15.00, 'WEEKEND15');
```

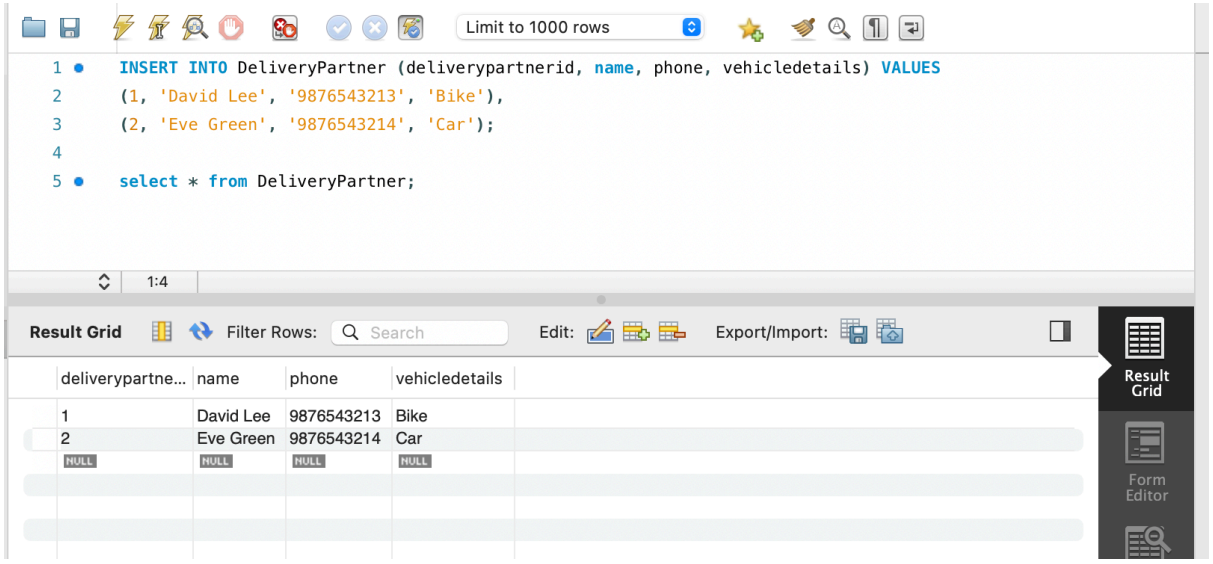
```
INSERT INTO Discount (discountid, description, percentage, code) VALUES
(1, 'New Year Discount', 10.00, 'NEWYEAR10'),
(2, 'Weekend Special', 15.00, 'WEEKEND15');

select * from Discount;
```

Result Grid

discountid	description	percentage	code
1	New Year Discount	10.00	NEWYEAR10
2	Weekend Special	15.00	WEEKEND15
NULL	NULL	NULL	NULL

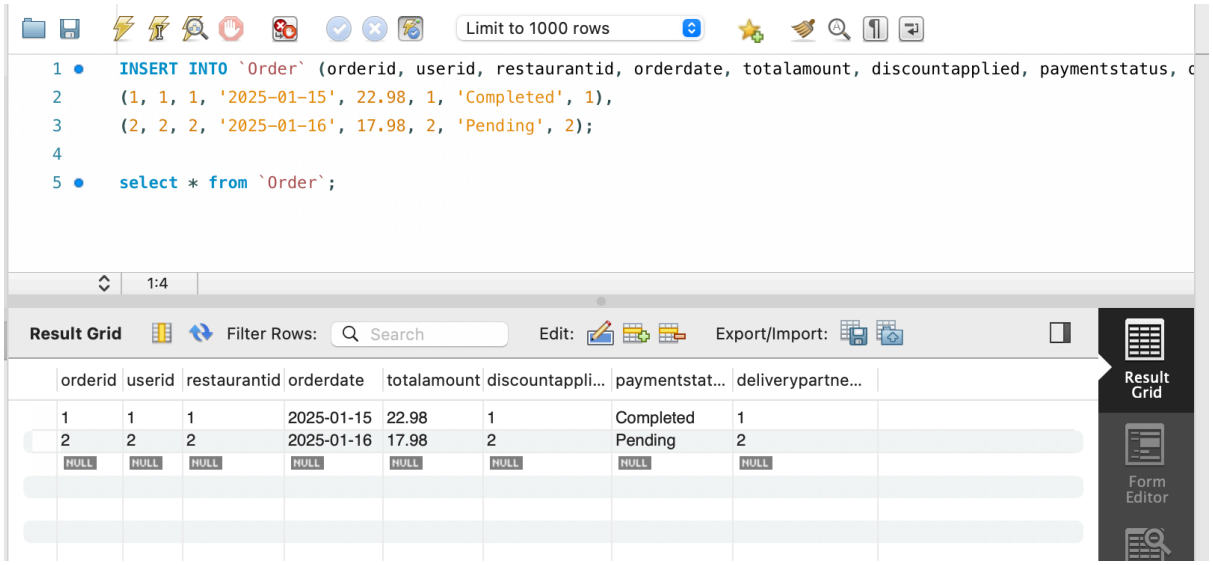
5. DeliveryPartner table

```
INSERT INTO DeliveryPartner (deliverypartnerid, name, phone, vehicledetails) VALUES
(1, 'David Lee', '9876543213', 'Bike'),
(2, 'Eve Green', '9876543214', 'Car');
```



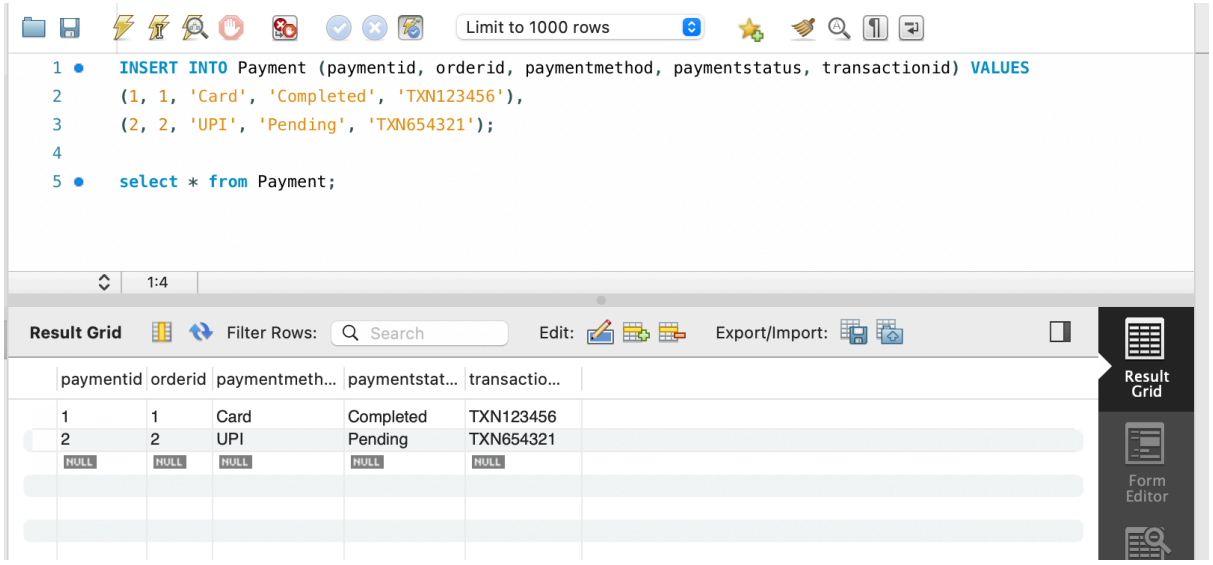
6. Order table

```
INSERT INTO `Order` (orderid, userid, restaurantid, orderdate, totalamount, discountapplied, paymentstatus, deliverypartnerid) VALUES
(1, 1, 1, '2025-01-15', 22.98, 1, 'Completed', 1),
(2, 2, 2, '2025-01-16', 17.98, 2, 'Pending', 2);
```



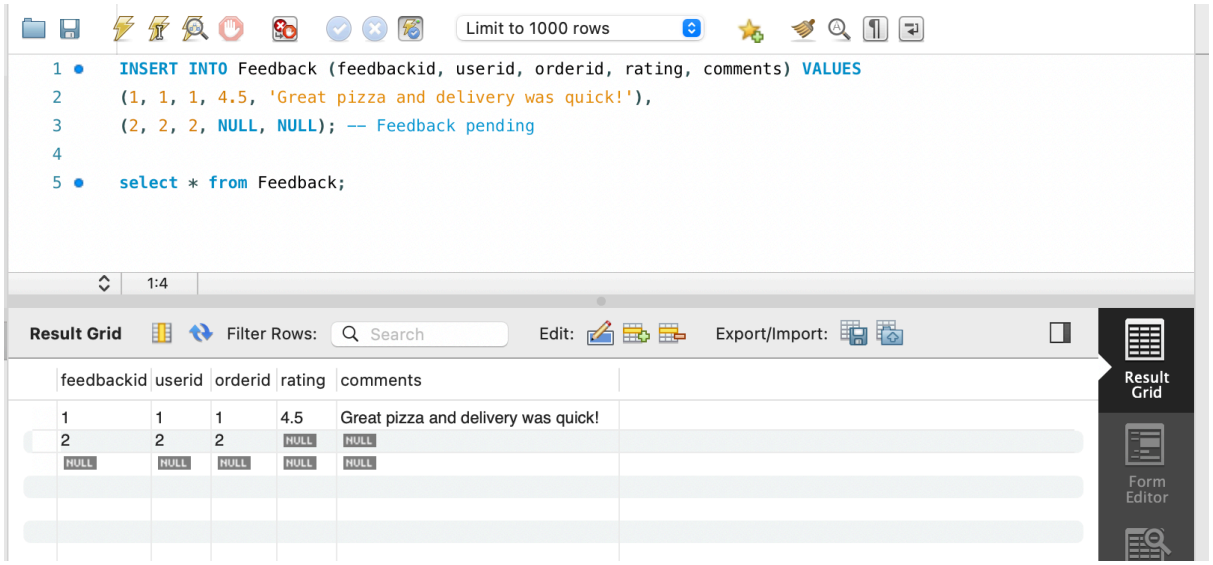
7. Payment table

```
INSERT INTO Payment (paymentid, orderid,
paymentmethod, paymentstatus, transactionid) VALUES
(1, 1, 'Card', 'Completed', 'TXN123456'),
(2, 2, 'UPI', 'Pending', 'TXN654321');
```



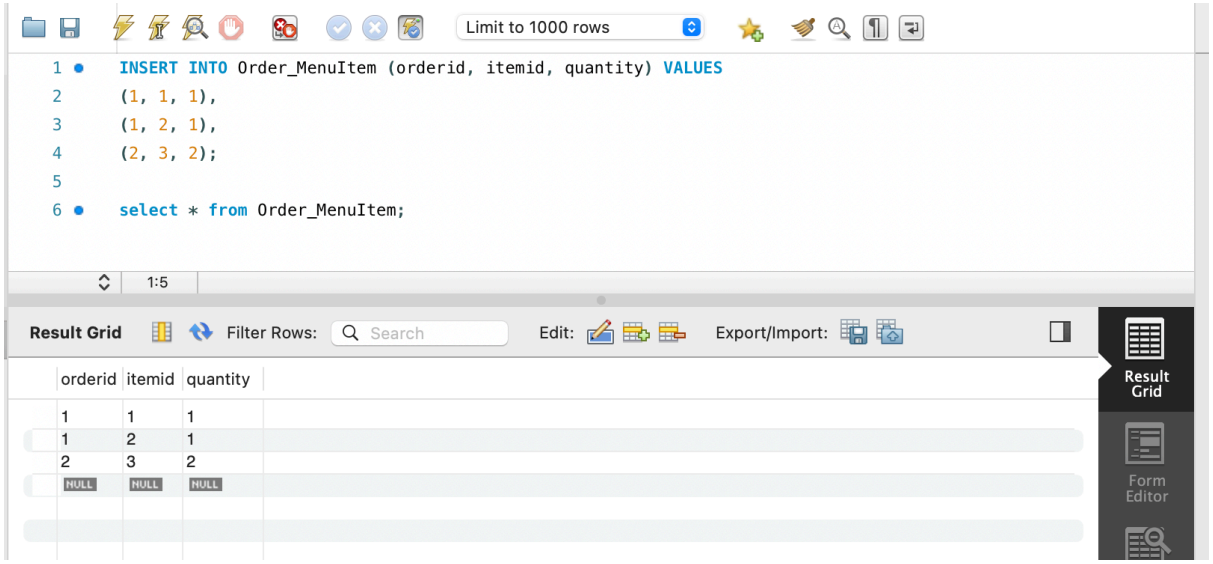
8. Feedback table

```
INSERT INTO Feedback (feedbackid, userid, orderid,
rating, comments) VALUES
(1, 1, 1, 4.5, 'Great pizza and delivery was
quick!'),
(2, 2, 2, NULL, NULL); -- Feedback pending
```



9. Order_MenuItem table

```
INSERT INTO Order_MenuItem (orderid, itemid,
quantity) VALUES
(1, 1, 1),
(1, 2, 1),
(2, 3, 2);
```



Data Distribution Justification:

1. **User**:
   - Includes customers, a restaurant owner, and a delivery partner with distinct roles
   - Data types align with constraints: "**email**" is unique, and "**usertype**" is constrained to specific values
2. **Restaurant**:
   - Restaurants owned by the same user are included, reflecting real-world scenarios
3. **MenuItem**:
   - Includes multiple items per restaurant with realistic prices, preparation times, and availability
4. **Discount**:
   - Two discounts with descriptive codes and reasonable percentages

5. **DeliveryPartner**:
    - Contains multiple delivery partners with unique contact details and vehicle information
6. **Order**:
    - Reflects orders by customers, each tied to a restaurant, delivery partner, and discount
7. **Payment**:
    - Shows different payment methods and statuses for completed and pending orders
8. **Feedback**:
    - Includes feedback for a completed order and a placeholder for pending feedback
9. **Order_MenuItem**:
    - Captures the association between orders and the items included in each order with quantities