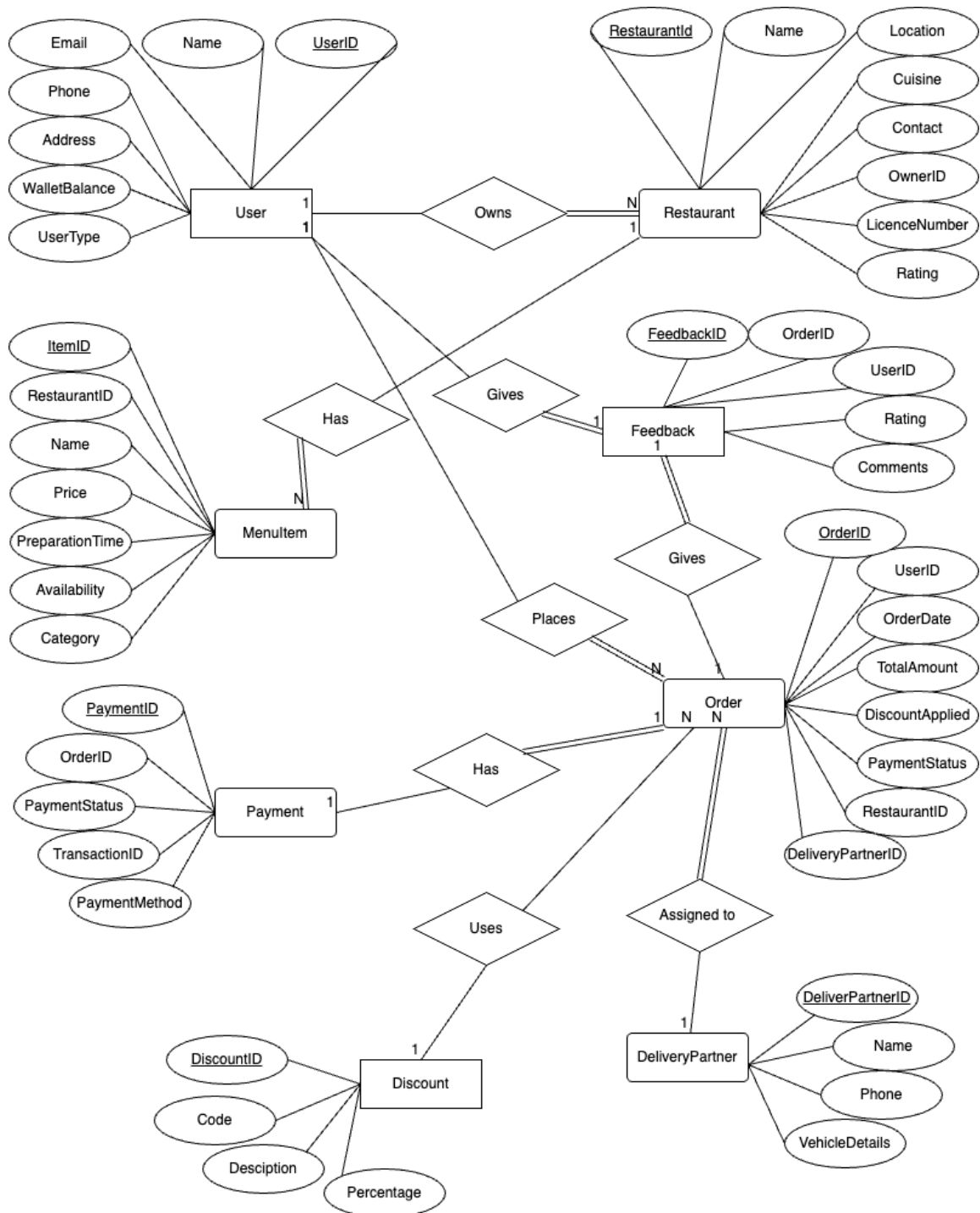


DBMS ASSIGNMENT

Nikki Gautam

Question 1:

Part A: Tool Used: draw.io



Entities and Attributes:

1. User

- **Attributes:** userid (PK), name, email, phone, address, usertype (Customer/RestaurantOwner/DeliveryPartner)

2. Restaurant

- **Attributes:** restaurantid (PK), name, location, cuisine, rating, contact, ownerid (FK)

3. MenuItem

- **Attributes:** itemid (PK), restaurantid (FK), name, price, preparationtime, availability, category

4. Order

- **Attributes:** orderid (PK), userid (FK), restaurantid (FK), orderdate, totalamount, discountapplied (FK), paymentstatus, deliverypartnerid (FK)

5. Discount

- **Attributes:** discountid (PK), description, percentage, code

6. DeliveryPartner

- **Attributes:** deliverypartnerid (PK), name, phone, vehicledetails

7. Feedback

- **Attributes:** feedbackid (PK), userid (FK), orderid (FK), rating, comments

8. Payment

- **Attributes:** paymentid (PK), orderid (FK), paymentmethod (e.g., Card, UPI, Wallet), paymentstatus, transactionid

Relationships:

1. User ↔ Restaurant

- **Relation:** "Owns"
- **Cardinality:** 1:N
- **Totally Participating Entity:** Restaurant
- **Description:** A user (RestaurantOwner) can own multiple restaurants.

2. Restaurant ↔ MenuItem

- **Relation:** "Has"
- **Cardinality:** 1:N
- **Totally Participating Entity:** MenuItem
- **Description:** A restaurant has multiple menu items.

3. User ↔ Order

- **Relation:** "Places"
- **Cardinality:** 1:N
- **Totally Participating Entity:** Order
- **Description:** A user can place multiple orders.

4. Order ↔ DeliveryPartner

- **Relation:** "Assigned to"
- **Cardinality:** 1:1
- **Totally Participating Entity:** Order
- **Description:** Each order is assigned to one delivery partner.

5. Order ↔ Discount

- **Relation:** "Uses"
- **Cardinality:** M:N
- **Totally Participating Entity:** Order
- **Description:** An order can use multiple discounts, and a discount can apply to multiple orders.

6. Order ↔ Feedback

- **Relation:** "Gives"
- **Cardinality:** 1:1
- **Totally Participating Entity:** Feedback
- **Description:** Feedback is provided for a specific order by the user who placed it.

7. Order ↔ MenuItem

- **Relation:** "Contains"
- **Cardinality:** M:N
- **Totally Participating Entity:** Order
- **Description:** An order can contain multiple menu items, and a menu item can belong to multiple orders.

8. Order ↔ Payment

- **Relation:** "Has"
- **Cardinality:** 1:1
- **Totally Participating Entity:** Order
- **Description:** Each order is associated with one payment.