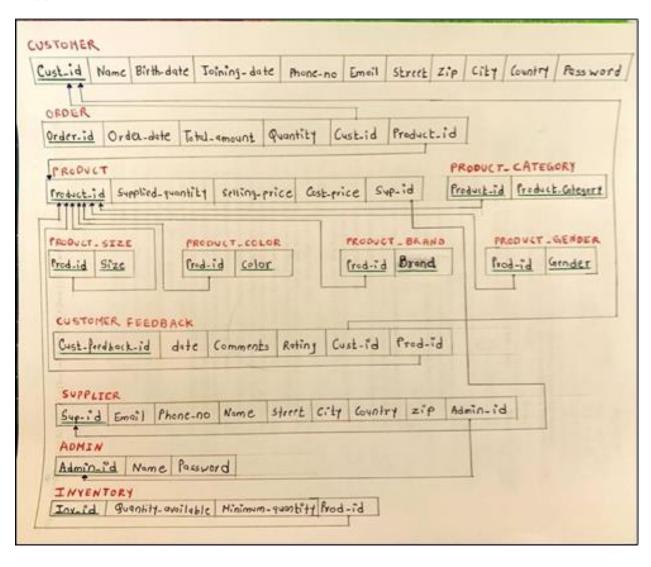
# Database Systems Project – Phase03 Version02

# **Mapping to Relations**

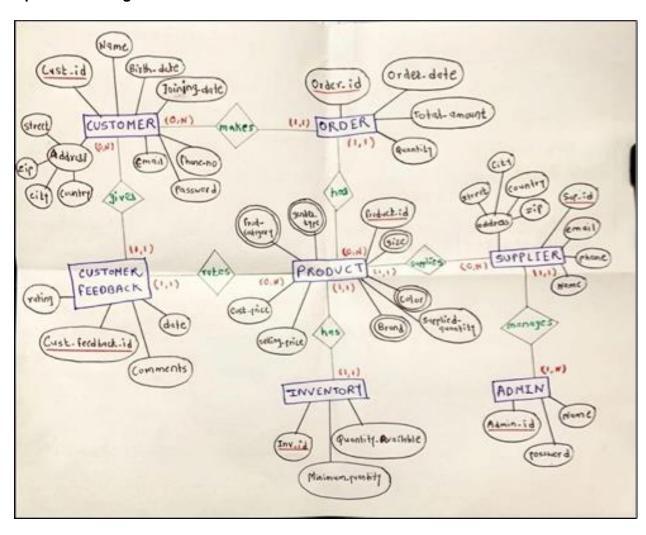
### **Team Member Details:**

Anu Sanjay Bhoyar Mav ID - 1001841237 Priya Kulkarni Mav ID - 1002088875 Sowjanya Sadashiva Mav ID - 1001898874

### **Mapped Relations:**



# Updated ER diagram.



#### Entity relations, candidate keys and Functional dependency

#### Candidate keys:

Customer: Cust\_Id
 Order: Order id

3. Product: Prod\_id

4. Supplier: Supplier\_ID

5. Customer Feedback: CustFeed\_ID

6. Inventory: Inventory\_ID

7. Admin: Admin id

#### Functional dependency:

#### Customer:

- 1. CustId → { name, DOB, Joining\_date, email, street, zip, city, country, phone no, password }
- 2. { CustId , name } → { DOB, Joining\_date, email, street, zip, city, country, phone no }
- 3. { CustId, DOB } → { name, Joining date, email, street, zip, city, country, phone no }
- 4. { CustId , Joining\_date } → { name, email, street, zip, city, country, phone no }
- 5. { CustId, email}  $\rightarrow$  { name, street, zip, city, country, phone no}
- 6. { CustId , Zip }→ { name, Joining\_date, email, street, city, country, phone no }

#### **Product:**

- 1. ProdId → { qty supplied, selling price, cost price, supplierId }
- 2. { Prodld , SupplierID }→ { qty supplied, selling price, cost price }
- 3. { ProdId, Cost price }  $\rightarrow$  { qty supplied, supplier id, Selling price }
- Product has multi valued attributes: category, gender, size, color, brand.
- Each of which is represented as a separate table in relation with the primary key referencing the foreign key.

#### Order:

- 1. Orderld → { order date, total amt, qty, CustId, ProdId }
- 2. { OrderId, CustId, ProdId }→ { order date, total amt, qty }
- 3. { OrderId , ProdId } → { Order date, total amt, qty, CustId }
- 4. { OrderId , CustId }→ { Order date, total amt, gty, ProdId }

#### Customer Feedback:

- CustFeedbackId→ { comments, date, rating, CustId, ProdId }
- 2. { CustFeedbackId, CustId, ProdId } → { comments, date, rating }
- 3. { CustFeedbackId , CustId } → { rating, comments, date, ProdId }
- 4. { CustFeedbackId , ProdId } → { rating, comments, date, CustId }

#### Supplier:

- 1. SupplierId → { name, email, phone, street, zip,city, country, adminId }
- 2. { SupplierId , adminId }→ { name, email, phone, street, zip, city, country }

# Inventory

- InventoryId → { ProdId, Qty\_available, min qty }
  { InventoryId , ProdId } → {qty available, min qty }

(Min\_qty is used to generate a Min Quantity alert.)

# Admin

1. Admin\_id  $\rightarrow$  { admin\_name ,password}