

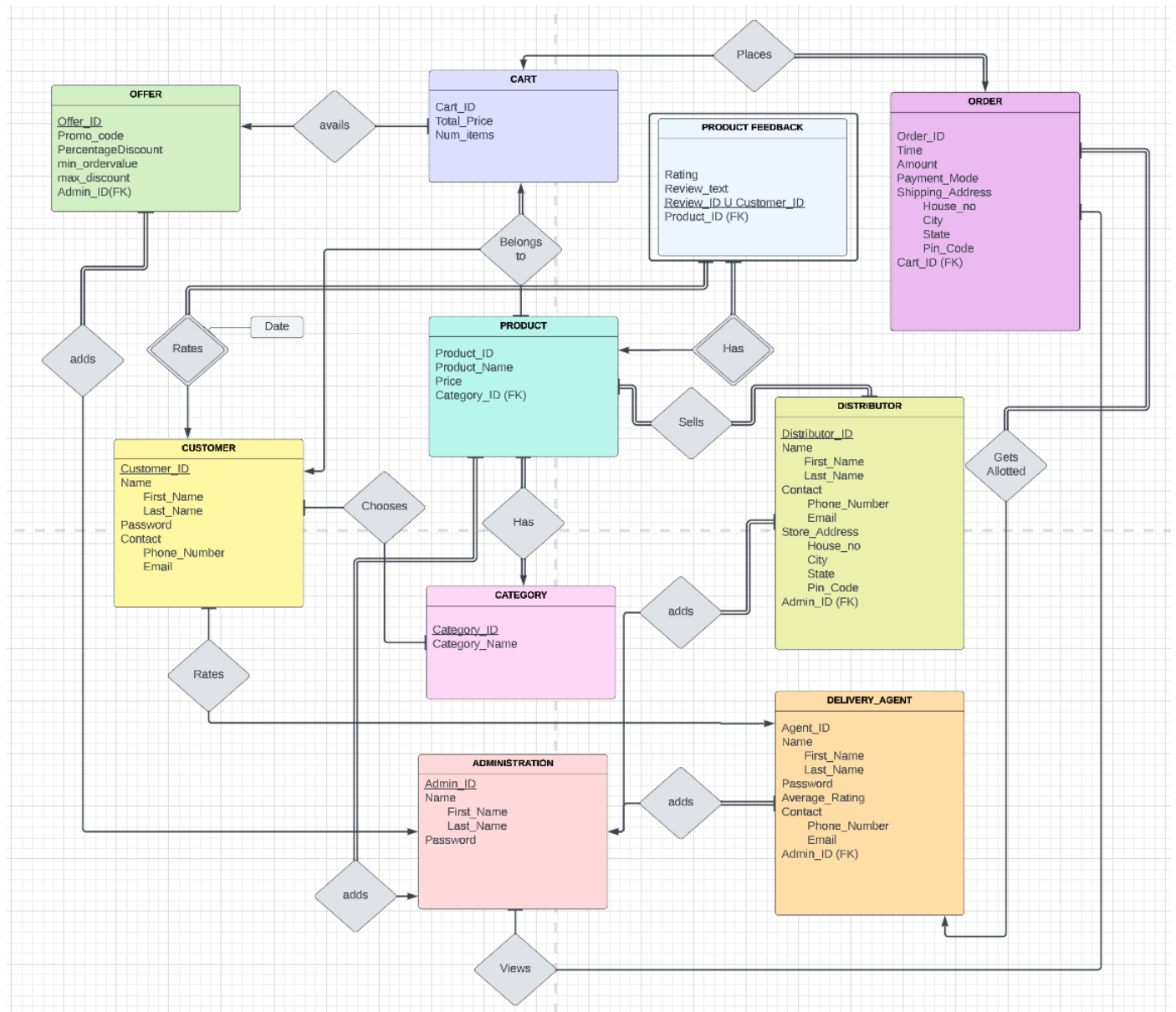
# ONLINE RETAIL STORE

## Group 50

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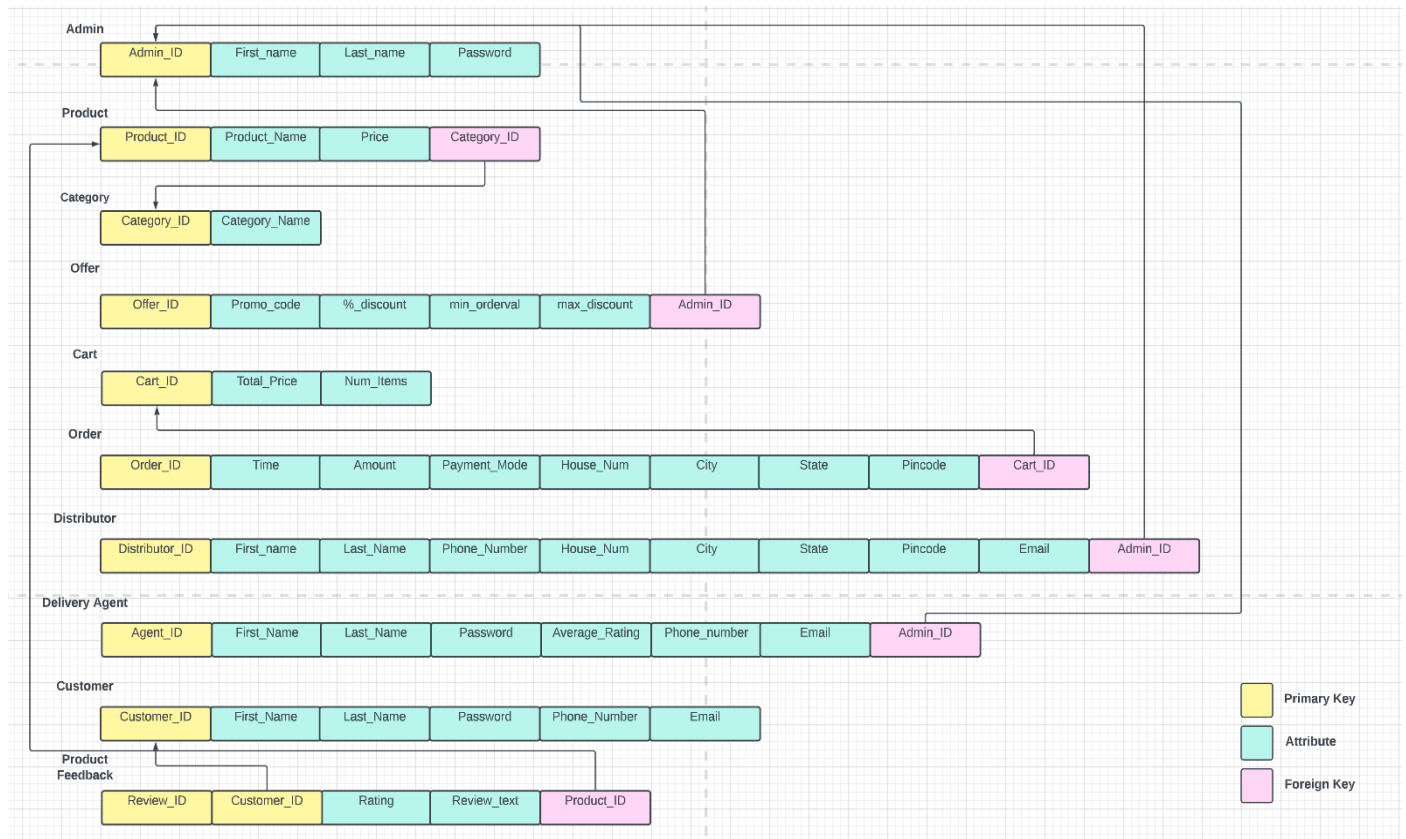
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### ER Model :



[Link to ER model and Relational model](#)

## Relational Model :

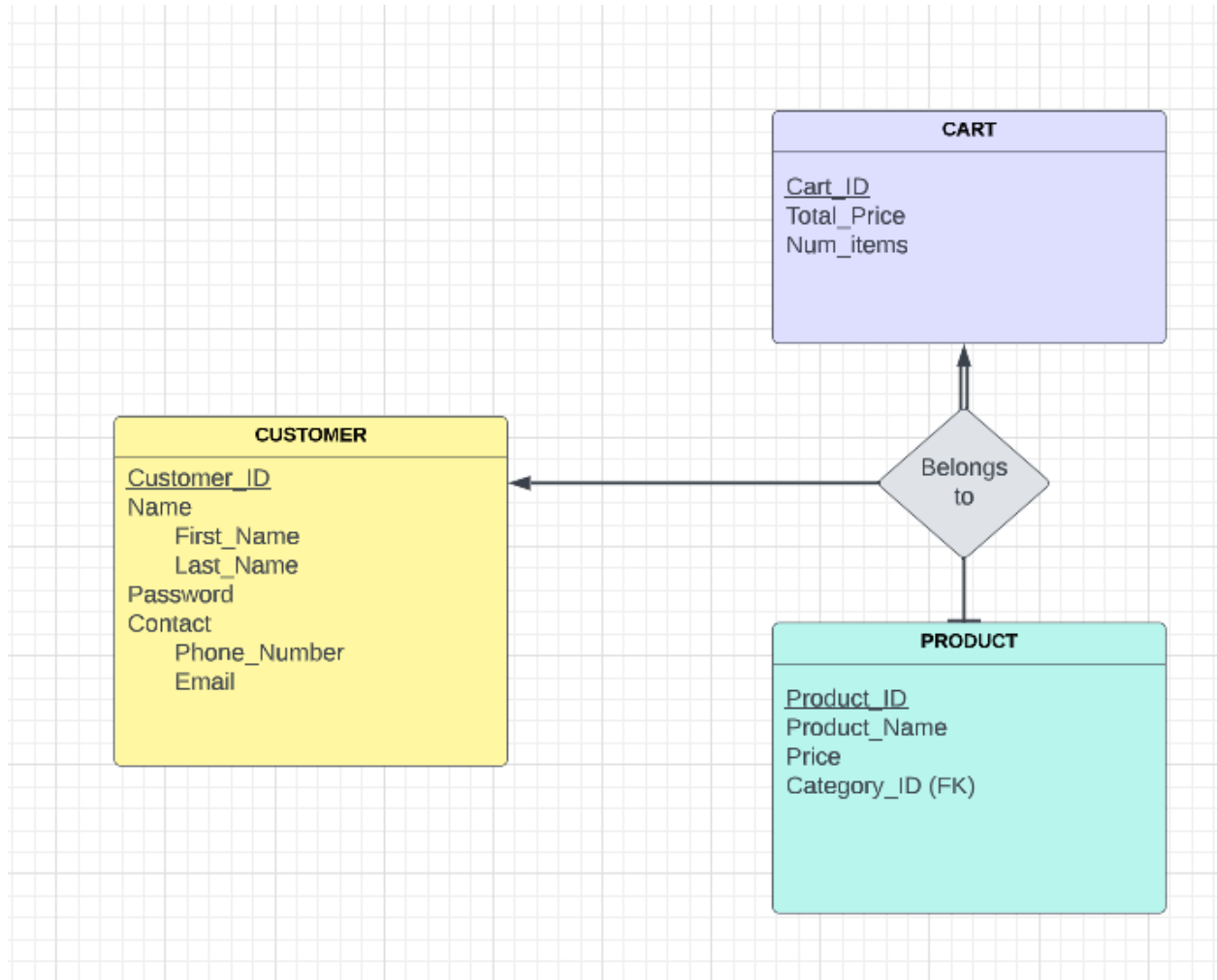


## Conceptual Model :

- 1) **Customers**(customer\_id: string , first\_name: string , last\_name: string , password: string , phone\_number: varchar , email: string)
- 2) **Admin**(admin\_id: string , password: string , first\_name: string , last\_name: string)
- 3) **Delivery Agent**(agent\_id: string , first\_name: string , last\_name: string, password: string , phone\_number: varchar , email: string , average\_rating: real)
- 4) **Distributor**(distributor\_id: string , first\_name: string , last\_name: string, house\_no: int , city: string , state: string , pincode: int, Phone\_Number: varchar , email: string)
- 5) **Order**(order\_id: string , payment\_mode: string , amount: int , time: datetime , house\_no: int , city: string , state: string , pincode: int)
- 6) **Cart**(cart\_id: string , total\_price: int , num\_items: int)
- 7) **Category**(category\_id: string , category\_name: string)
- 8) **Products**(product\_id: string , price: int ,product\_name: string)

- 9) **Offers**(offer\_id: string , Discount\_percentage: int , promo\_code: string , min\_orderValue: int , max\_DiscountValue: int)

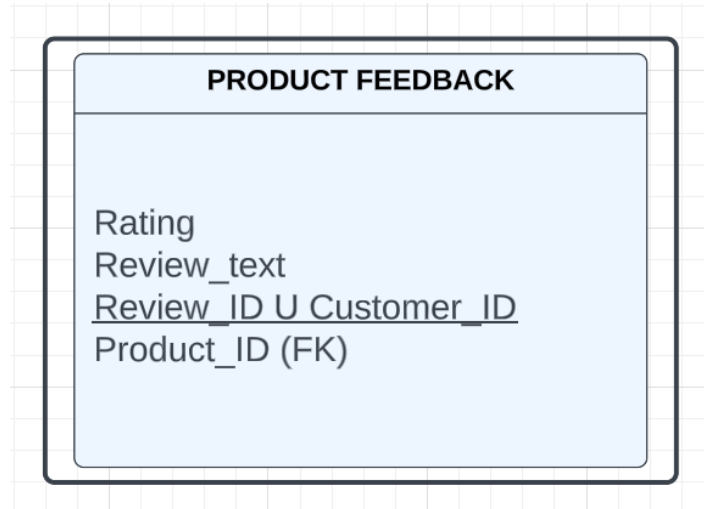
### Explanation of Ternary Relationship:



- **Cart and Product :**  
Relationship Type: 1 to N  
Participation: Partial participation for Product, total participation for Cart
- **Customer and Cart :**  
Relationship Type: 1 to 1  
Participation: Partial participation for Customer, total participation for Cart
- **Customer and Product :**  
Relationship Type: 1 to N

**Participation:** Partial participation for Product and Cart

**Explanation for Weak Entity:**



We have taken product feedback to be a weak entity as it is entirely **dependent on the product entity**. We can never have product feedback for a product that has not been added to the database.

This entity has a composite key - formed by the union of the Review ID and the Customer ID.

The product Feedback entity will have total participation with the product entity where each feedback is associated with a product.