BIG MART

CSE202 : DBMS

Team 121

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SCOPE OF THE WORK

The Company "Big Mart" has many employees, some of them are managers, delivery boys and admins, who oversee the sales of products and catalogs. The website will contain many products and categories, where each product will have its own Id(ProdId), Name, quantity, warranty/expiry date, & the Id of the category that it is related to. Each category will have its own id(CatId), name, and list of products(as Ids). And a category can contain many products.

The company itself maintains each employee's Id(EmpId), Name(First, Middle & Last Names), address, age, gender, salary, DoB and their Phone numbers. Some employees are specialized as suppliers, delivery agents and admins. Suppliers will also have the details of delivery assigned to them during duty. The admins will have various roles like managing & supervising the employees, and checking the products, and they will be ranked as well.
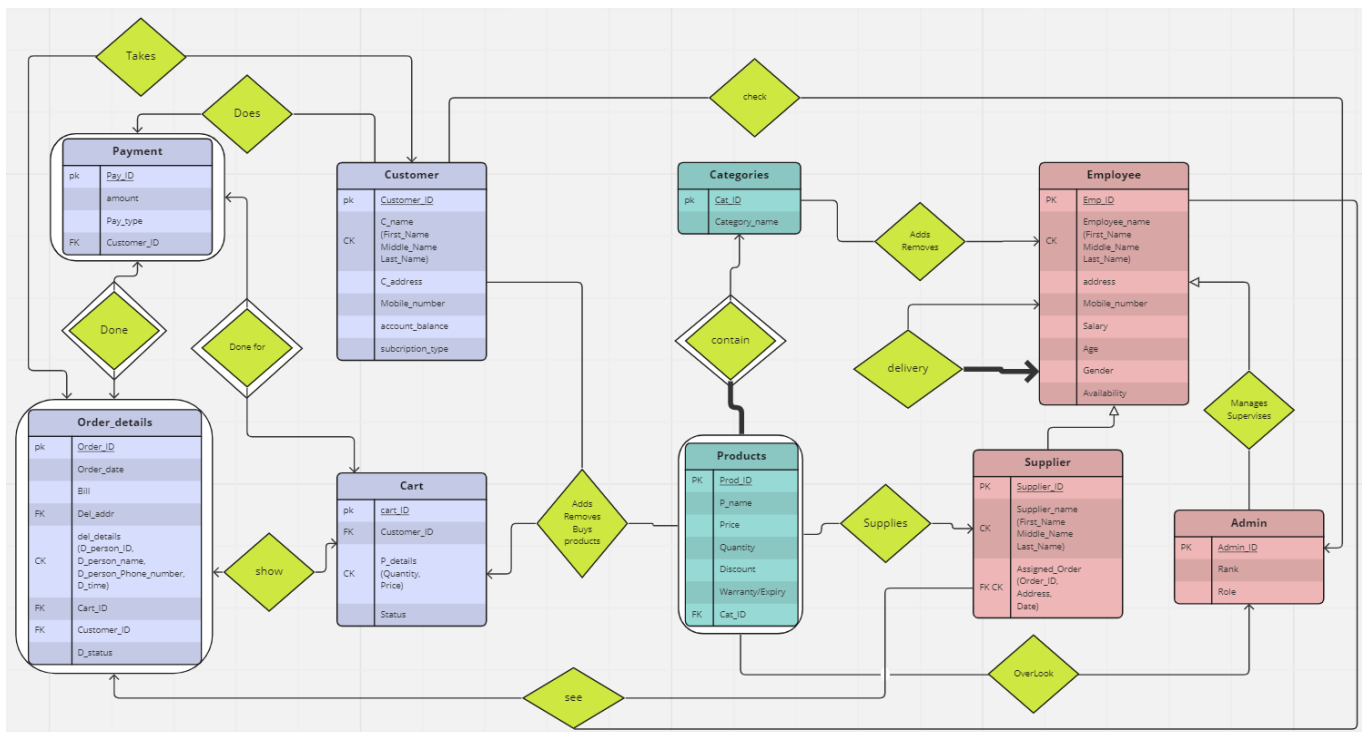
The User as customer will have their own Id(CustId), and contain their name(First, Middle & Last Names), address, age, gender, DoB and Phone numbers.The User can add/remove products from their cart and purchase from it any time. The cart itself will have an Id(CartId), Name of User(First, Middle & Last Names), & List of Products(Ids, Quantity). The customer will have to make a payment which will have an Id(PayID), Amount, & Type. When an order is placed, it will have its own Id(OrdId) and have information about the address of customer, Delivery Agent assigned, Estimated delivery date, and Price.

CONCEPTUAL MODEL

The Entities and their attributes that we will be working on are as follows:-

1. Employee: EmpId, Name(First, Middle & Last names), Address, Age, Gender, Salary, DoB & Phone_No.
2. Admin: AdmId, Rank.
3. Delivery Agent: Location, Date/Time.
4. Product: ProdId, Name, Details(Quantity, Price & Warranty/Expiry Date).
5. Category: CatId, Name.
6. Customer: CustId, Phone_No, Name(First, Middle & Last names), Address, Age, Gender, DoB, & Balance.
7. Cart: CustID, List of Product(ProdId, Quantity of each Product) & Price.
8. Payment: PayId, Amount, Type.
9. Order: OrdId, Address of Customer, List of ProdId Brought, Assigned Employee(EmpId, Name, Phone_No.), Status, Estimated Delivery Time & Total Price.

ENTITY-RELATIONSHIP MODEL

RELATIONAL MODEL

Customer

Customer_ID	C_Name	C_Address	Mobile_Number	Account_Balance	Subscription_Type

Cart

Cart_ID	Customer_ID	Product_Details	Status

Product

Prod_ID	P_Name	Price	Quantity	Discount	Warranty/Expiry	Cat_ID

Category

Cat_ID	Cat_Name

Order_Details

Order_ID	Pay_ID	Customer_ID	Cart_ID	Supplier_ID	Del_addr	Delivery_Status	Bill	Delivery_Details

Payment

Pay_ID	Amount	Payment_Type	Customer_ID	Cart_ID

Employee

Emp_ID	E_Name	Address	Mobile_Number	Salary	Age	Gender	Availability

Suppliers

Supplier_ID	Name	Assigned Order

Admin

Admin_ID	Name	Rank	Role

Legend:

- Primary Key
- Attribute
- Foreign Key
- Composite Key

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