

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.

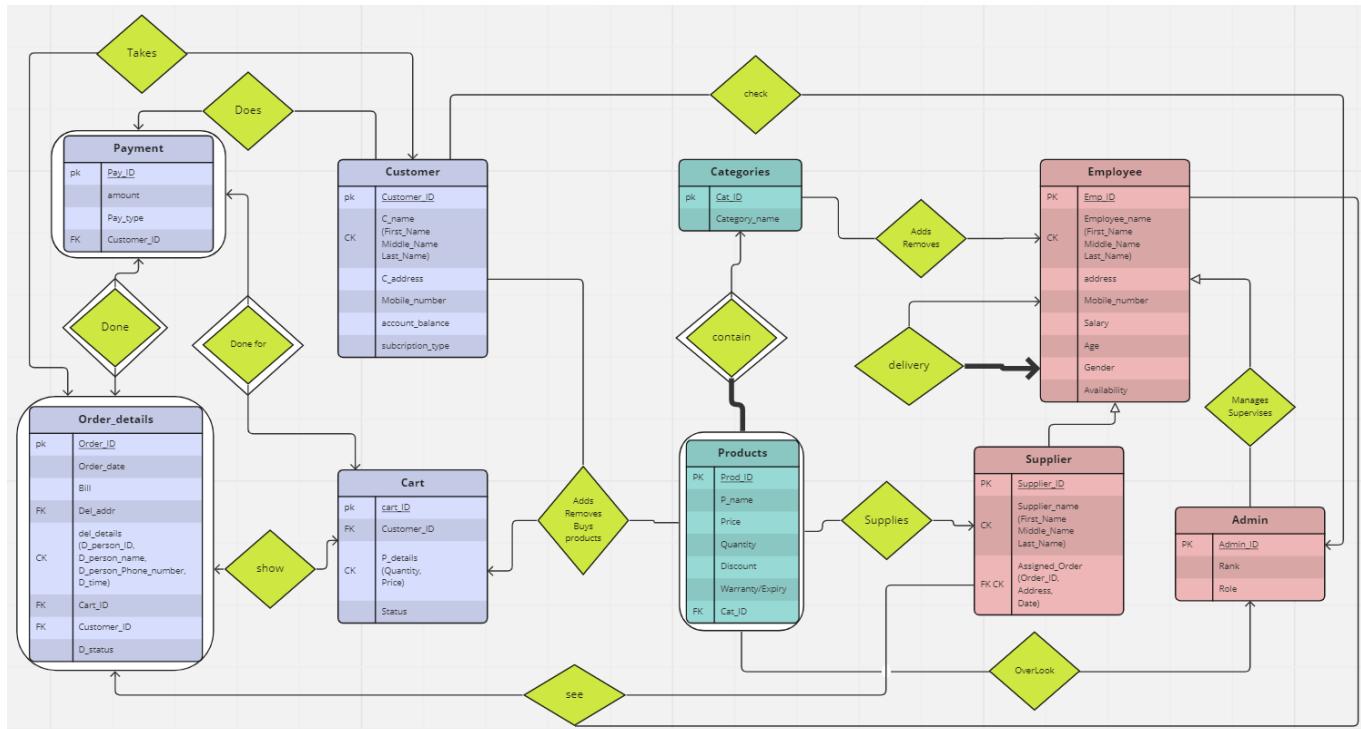
The User as customer will have their own Id(CustId), and contain their name(First, Middle & Last Names), address, age, gender, DoB and Phone numbers. The User can add/remove products from their cart and purchase from it any time. The cart itself will have an Id(CartId), Name of User(First, Middle & Last 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

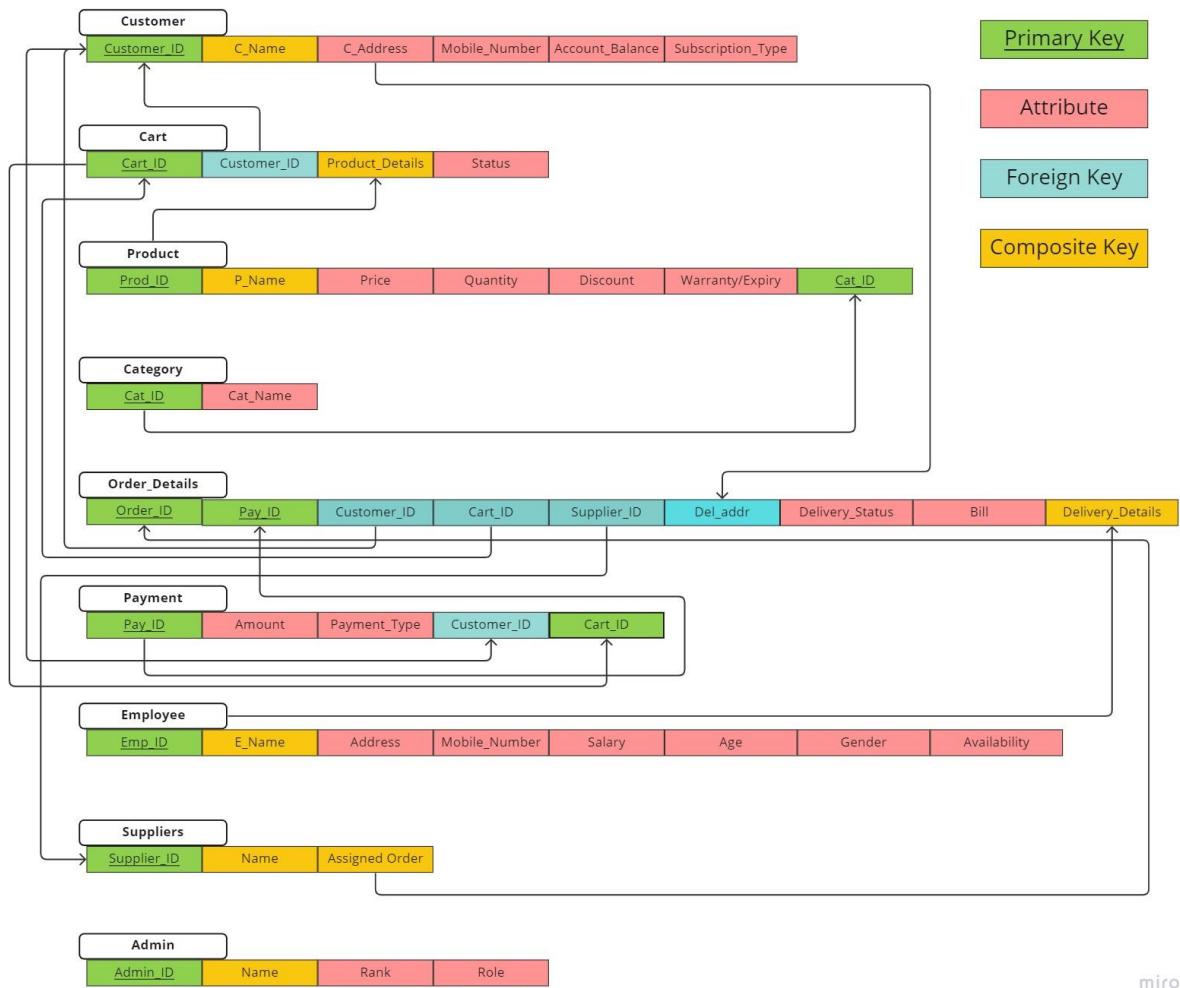
The Entities and their attributes that we will be working on are as follows:-

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



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