DATABASE MANAGEMENT SYSTEM PROJECT TASK-1

ENES FARUK IŞIK / 180201073

Supermarket Chain Database

- **1-)** A supermarket chain needs a database system to help for tracking the connection between customer and product. Data needs to be kept on each market branch, customers, products, workers and product category.
- **2-) Entities Required:** Customer, Branch, Product, Worker, Category.

3-) Attributes Required:

Customer: Customer ID number, Customer first name, Customer last name, Customer gender.

Branch: Branch ID number, Branch name, Branch address, Branch phone number.

Product: Product ID number, Product name, Product category.

Worker: Worker ID number, Worker first name, Worker last name, Worker phone number, Worker gender.

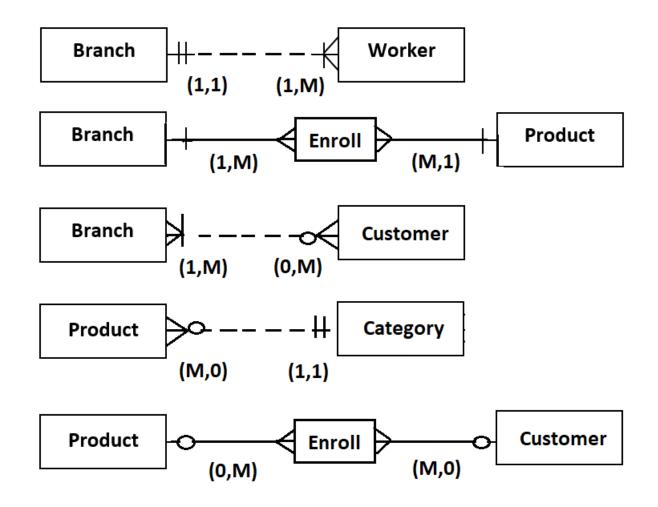
Category: Category ID number, Category name, Category Color.

The following relationships must be defined:

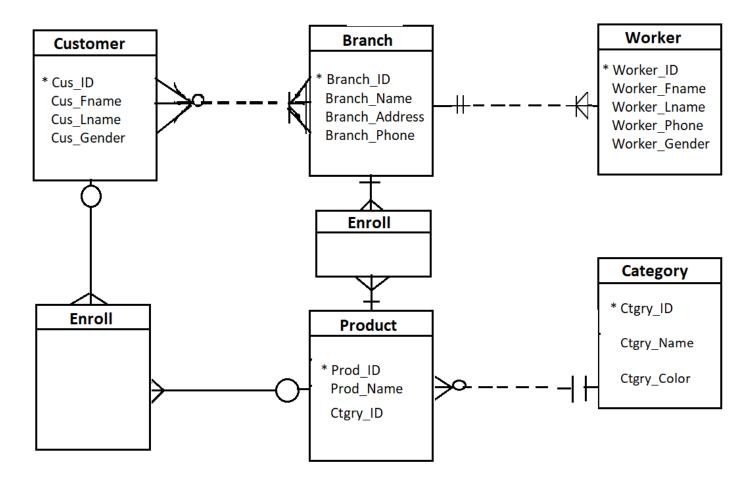
- Branch is related to Worker.
- Branch is related to Customer.
- Branch is related to Product.
- Category is related to Product.
- Product is related to Customer.

Connectivities and participations are defined as follows:

- A Branch must have a Product.
- A Branch may have many Product.
- A Product may have many Branch.
- A Product must have a Branch.
- A Branch must have a Worker.
- A Branch may have many Worker.
- A Worker has only one Branch.
- A Branch may or may not have a Customer.
- A Customer may belongs to many Branch.
- A Product may or may not have a Customer.
- A Product may have many Customer.
- A Customer may have many Product.
- A Customer may or may not have a Product.
- A Category may or may not have a Product.
- A Category may have many Products.
- A Product must have a Category.



5-)



6-)

