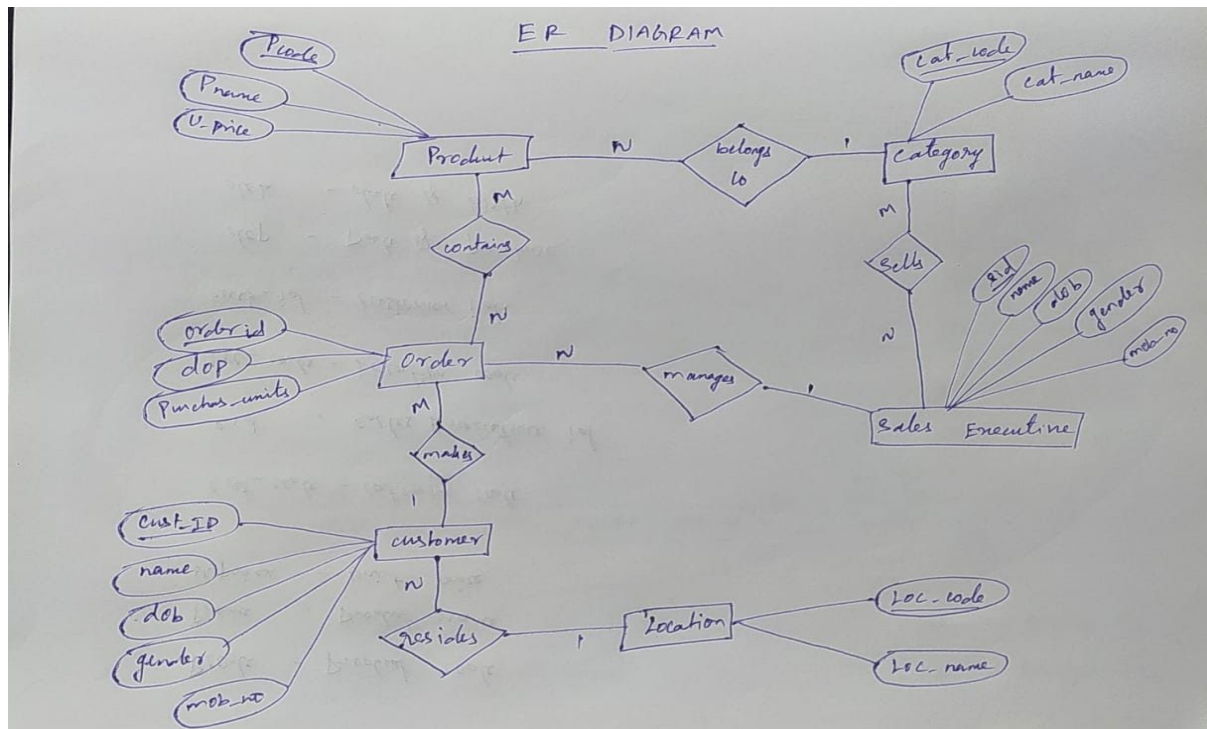# RDBMS Concepts

Prabhakar

Hamen's private limited markets and sells different products. The attributes of the product include produce code, product name, and unit price. Products are grouped into categories. A product belongs to one category. A category can have many products. The attributes of category include category code and category name. Sales executives in the company are responsible for marketing and selling products to customers residing in different locations. The attributes of sales executives include sales executive id, name , date born, gender and mobile number. The attributes of the customer include customer id, name, date born, gender, and mobile number. The attributes of location include location code and location name. A location can have many sales executive marketing and selling different categories of products. The products purchased by the customers, date of purchase and number of units purchased have to be kept track.

1. Model an ER diagram for above scenarios
2. Use any ER tool or draw by hand hand (anything is fine)
3. Transform the ER diagram to relations (tables)
4. Relations should be normalised as possible.

Everything needs to be done in paper or Google doc or any such thing. No need to create tables in db for this assignment.

ER Diagram:

Abbreviation:
- Pcode - product code
- U_price - unit price
- Cat_code - category code
- Sid - sales executive Id
- Loc_code - location code
- Cust_id - customer id
- Dop - date of purchase
- Dob - Date of birth

Relations:

RELATIONS

Product

Pcode	Pname	unit-price	Cat-code (Fk)

Category

Cat-code	Cat-name

Order_Product

Pcode (Fk)	order-id (Fk)	units

Order

order-id	cust-id (Fk)	Sid (Fk)	dop

SE_category

Sid (Fk)	cat-code (Fk)

Customer

cust-id	name	dob	gender	mob-no

Sales_Executive

Sid	name	dob	gender	mob-no	Loc-code (Fk)

Location

Loc-code	Loc-name

— — Primary key

Fk — Foreign key.