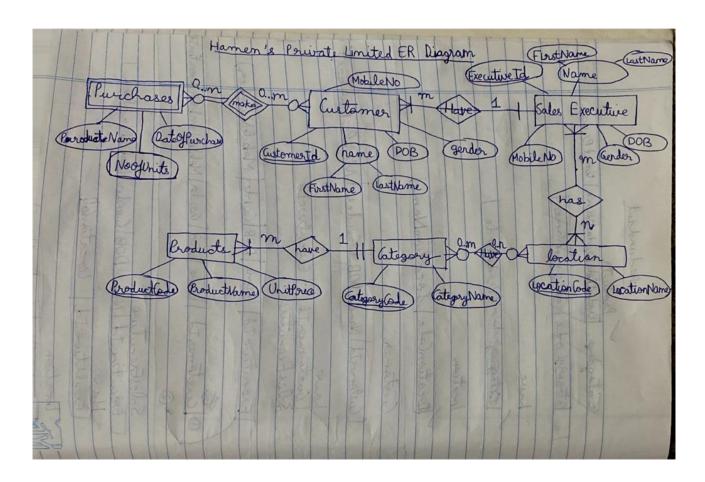
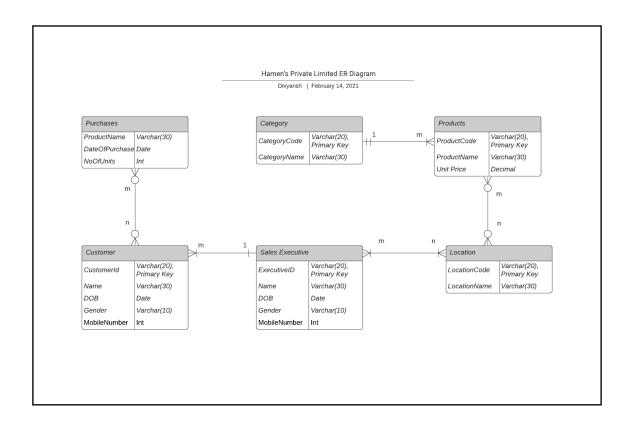
RDBMS CONCEPTS

Divyansh khatri

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.

- Q1. Model an ER diagram for above scenarios.
- A. Screenshots Of ER diagram -





ER diagram

Q2. Transform the ER diagram to relations (tables)

A.

(market	Consider Table Ruschases and Customer (o. m-O. n. wrdinality)
~	Customes Table: [Gustomes Table: Gustomes Table: DOB Gender Mobile No.]
	Purchases Table (It has no primary key as it is a weak entity) Resolved No of Units
	So, final tables will be
	1 Customer Table itself.
	Customer Id Princhase Name Date Offurchase Nooglinite
	Consider Table Product and Category (m-1 coordinality
- Philo	Product Table: Broduct Table: Broduct Name Unithrice
ST . A.	Category Table
	[CategoryCode [CategoryName]
, 0	So, final tables will be: [ProductId [ProductName CategoryCode Unithrice]
	Category Lade (Category Name)

Page1.

Consider	the table broducts and Location (m-n cardinally
reducts b	ble:
ProductCo	Le Product Name Unit Price
Location	Table:
location-	Code [locationName]
So, the fir	ral tables will be:
() Products	Table 3 focation Table
10.16	Censudes Table Paul + 1 C
Consider to	tables customers and Sales Executive : y pere in many to I cardinality,
the final to	ables will be,
	d Name DOB Grender Mobile Number Executive I
© Executive to	able itself
Consider As they	tables Sales Executive and Location are in many-to-many cardinality,
	tables will be,

Page2.

~ O Executive Table Itself
10 Location Table Itself
3 Executive Id [Jocolion Code]
So, the final tables are :-
() Customer ID First Name last Name DOB Gender MobileNo Executive Id
2 Product Name Purchase Pate No-of-Units Customer Id
3 [ProductId ProductName Unitbrice (ategorylode)
(a) Category Code Cotegory Namo)
(5) TocationCode LocationName)
@ Product(ode Locationlode)
@ Executive Id FirstName laxtName DOB Gender Mobile No
8 ExecutiveId SocotionSode

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