=> Using ER-Diagram to design an efficient Data Model by Customers, Product and Customer\_Address Entities. Attributes are given below with their respective entities for your reference.

Entity 1: Customer

Attributes: Email, Name, contact, zip\_code, product id

Entity 2: Product

Attributes: Product\_ID, Product\_name, Price

Entity: Customer\_Address

Attributes: Street\_Address, CIty, Zip\_Code, State

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=> Transform the previously designed ER data model into RDBMS tabular structure along with its schema creation.

create table customer

(

email varchar(30) not null,

name varchar(30) not null,

contact varchar(15) unique,

prod\_id int(10) not null REFERENCES product(product\_id),

z\_code int (10) not null REFERENCES customer\_address(zip\_code),

PRIMARY KEY(email));

create table product

(

product\_id int (10) not null,

product\_name varchar(30) not null,

price float(10,2) not null,

PRIMARY KEY(product\_id));

create table customer\_address

(

zip\_code int(10) not null,

street\_address varchar(40),

city varchar(15),

state varchar(20),

PRIMARY KEY (zip\_code));

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=> please add one more column 'country' in 'Customer Address' tables.

ALTER TABLE customer\_address ADD country varchar(30);

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=> Insert atleast 3 values to each tables.

insert into product values(001, 'mobile', 10000);

insert into product values(002, 'TV', 50000);

insert into product values(003, 'Laptop', 70000);

insert into customer values('data.science@gmail.com', 'Avishek', '7003064710',001, 712235);

insert into customer\_address values(712235, 'konnagar', 'kolkata', 'WB');

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=> create a duplicate table of 'customer' table using SELECT statement.

CTRATE TABLE customer\_bak SELECT \* FROM customer;

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=> Drop the column 'state' from 'Customer\_Address' table.

ALTER TABLE customer\_address DROP column state;

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=> Rename the table 'Customer\_Address' to 'Address'.

ALTER TABLE customer\_address RENAME TO cutomer;

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