**PROBLEM STATEMENT :**

You are part of a team which is involved in developing an E-Commerce Website. The E-commerce website manages its data in the Database..

1) You are required to create tables for supplier,customer,category,product,supplier\_pricing,order,rating to store the data for the E-commerce with the schema definition given below.

2) You are required to develop SQL based programs (Queries) to facilitate the Admin team of the E-Commerce company to retrieve the data in summarized format - The Data Retrieval needs are described below.

**CODE:**

CREATE TABLE if NOT EXISTS customer(

CUS\_ID INT AUTO\_INCREMENT ,

CUS\_NAME VARCHAR(20) NOT NULL,

CUS\_PHONE VARCHAR(10) NULL,

CUS\_CITY VARCHAR(30) NOT NULL,

CUS\_GENDER CHAR,

PRIMARY KEY(CUS\_ID)

);

CREATE TABLE if NOT EXISTS category(

CAT\_ID INT AUTO\_INCREMENT ,

CAT\_NAME VARCHAR(20) NOT NULL,

PRIMARY KEY (CAT\_ID)

);

CREATE TABLE if NOT EXISTS `order`(

ORD\_ID INT AUTO\_INCREMENT ,

ORD\_AMOUNT INT NOT NULL,

ORD\_DATE DATE NOT NULL ,

CUS\_ID INT ,

PRICING\_ID INT ,

PRIMARY KEY(ORD\_ID),

FOREIGN KEY(CUS\_ID) REFERENCES customer(CUS\_ID),

FOREIGN KEY(PRICING\_ID) REFERENCES supplier\_pricing(PRICING\_ID)

);

CREATE TABLE if NOT EXISTS supplier\_pricing(

PRICING\_ID INT AUTO\_INCREMENT,

PRO\_ID INT,

SUPP\_ID INT,

SUPP\_PRICE INT DEFAULT 0,

PRIMARY KEY(PRICING\_ID),

FOREIGN KEY (PRO\_ID) REFERENCES product(PRO\_ID),

FOREIGN KEY (SUPP\_ID) REFERENCES supplier(SUPP\_ID)

);

CREATE TABLE if NOT EXISTS product(

PRO\_ID INT AUTO\_INCREMENT,

PRO\_NAME VARCHAR(20) NOT NULL DEFAULT('Dummy'),

PRO\_DESC VARCHAR(60),

CAT\_ID INT,

PRIMARY KEY (PRO\_ID),

FOREIGN KEY(CAT\_ID) REFERENCES category(CAT\_ID)

);

CREATE TABLE if NOT EXISTS rating(

RAT\_ID INT NOT NULL AUTO\_INCREMENT ,

ORD\_ID INT NOT NULL,

RAT\_RATSTARS INT NOT NULL ,

PRIMARY KEY(RAT\_ID),

FOREIGN KEY(ORD\_ID) REFERENCES `order` (ORD\_ID)

);

INSERT INTO customer(CUS\_NAME,CUS\_PHONE,CUS\_CITY,CUS\_GENDER) VALUES

("AAKASH",'9999999999',"DELHI",'M'),

("AMAN",'9785463215',"NOIDA",'M'),

("NEHA",'9999999999',"MUMBAI",'F'),

("MEGHA",'9994562399',"KOLKATA",'F'),

("PULKIT",'7895999999',"LUCKNOW",'M');

INSERT INTO category(CAT\_NAME) VALUES("BOOKS");

INSERT INTO category(CAT\_NAME) VALUES("GAMES");

INSERT INTO category(CAT\_NAME) VALUES("GROCERIES");

INSERT INTO category(CAT\_NAME) VALUES ("ELECTRONICS");

INSERT INTO category(CAT\_NAME) VALUES("CLOTHES");