**Q1) Ans:**

Create Database if not exists `order-directory` ;

use `order-directory`;

CREATE TABLE IF NOT EXISTS supplier(

SUPP\_ID int primary key,

SUPP\_NAME varchar(50) NOT NULL,

SUPP\_CITY varchar(50),

SUPP\_PHONE varchar(10) NOT NULL

);

CREATE TABLE IF NOT EXISTS customer(

CUS\_ID INT NOT NULL,

CUS\_NAME VARCHAR(20) NOT NULL,

CUS\_PHONE VARCHAR(10) NOT NULL,

CUS\_CITY varchar(30) NOT NULL,

CUS\_GENDER CHAR,

PRIMARY KEY (CUS\_ID)

);

CREATE TABLE IF NOT EXISTS category (

CAT\_ID INT NOT NULL,

CAT\_NAME VARCHAR(20) NOT NULL,

PRIMARY KEY (CAT\_ID)

);

CREATE TABLE IF NOT EXISTS product (

PRO\_ID INT NOT NULL,

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

PRO\_DESC VARCHAR(60),

CAT\_ID INT NOT NULL,

PRIMARY KEY (PRO\_ID),

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

);

CREATE TABLE IF NOT EXISTS supplier\_pricing (

PRICING\_ID INT NOT NULL,

PRO\_ID INT NOT NULL,

SUPP\_ID INT NOT NULL,

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 `order` (

ORD\_ID INT NOT NULL,

ORD\_AMOUNT INT NOT NULL,

ORD\_DATE DATE,

CUS\_ID INT NOT NULL,

PRICING\_ID INT NOT NULL,

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 rating (

RAT\_ID INT NOT NULL,

ORD\_ID INT NOT NULL,

RAT\_RATSTARS INT NOT NULL,

PRIMARY KEY (RAT\_ID),

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

);

**Q2) Ans:**

INSERT INTO SUPPLIER VALUES(1,"Rajesh Retails","Delhi",'1234567890');

INSERT INTO SUPPLIER VALUES(2,"Appario Ltd.","Mumbai",'2589631470');

INSERT INTO SUPPLIER VALUES(3,"Knome products","Banglore",'9785462315');

INSERT INTO SUPPLIER VALUES(4,"Bansal Retails","Kochi",'8975463285');

INSERT INTO SUPPLIER VALUES(5,"Mittal Ltd.","Lucknow",'7898456532');

INSERT INTO CUSTOMER VALUES(1,"AAKASH",'9999999999',"DELHI",'M');

INSERT INTO CUSTOMER VALUES(2,"AMAN",'9785463215',"NOIDA",'M');

INSERT INTO CUSTOMER VALUES(3,"NEHA",'9999999999',"MUMBAI",'F');

INSERT INTO CUSTOMER VALUES(4,"MEGHA",'9994562399',"KOLKATA",'F');

INSERT INTO CUSTOMER VALUES(5,"PULKIT",'7895999999',"LUCKNOW",'M');

INSERT INTO CATEGORY VALUES( 1,"BOOKS");

INSERT INTO CATEGORY VALUES(2,"GAMES");

INSERT INTO CATEGORY VALUES(3,"GROCERIES");

INSERT INTO CATEGORY VALUES (4,"ELECTRONICS");

INSERT INTO CATEGORY VALUES(5,"CLOTHES");

INSERT INTO PRODUCT VALUES(1,"GTA V","Windows 7 and above with i5 processor and 8GB RAM",2);

INSERT INTO PRODUCT VALUES(2,"TSHIRT","SIZE-L with Black, Blue and White variations",5);

INSERT INTO PRODUCT VALUES(3,"ROG LAPTOP","Windows 10 with 15inch screen, i7 processor, 1TB SSD",4);

INSERT INTO PRODUCT VALUES(4,"OATS","Highly Nutritious from Nestle",3);

INSERT INTO PRODUCT VALUES(5,"HARRY POTTER","Best Collection of all time by J.K Rowling",1);

INSERT INTO PRODUCT VALUES(6,"MILK","1L Toned MIlk",3);

INSERT INTO PRODUCT VALUES(7,"Boat EarPhones","1.5Meter long Dolby Atmos",4);

INSERT INTO PRODUCT VALUES(8,"Jeans","Stretchable Denim Jeans with various sizes and color",5);

INSERT INTO PRODUCT VALUES(9,"Project IGI","compatible with windows 7 and above",2);

INSERT INTO PRODUCT VALUES(10,"Hoodie","Black GUCCI for 13 yrs and above",5);

INSERT INTO PRODUCT VALUES(11,"Rich Dad Poor Dad","Written by RObert Kiyosaki",1);

INSERT INTO PRODUCT VALUES(12,"Train Your Brain","By Shireen Stephen",1);

INSERT INTO SUPPLIER\_PRICING VALUES(1,1,2,1500);

INSERT INTO SUPPLIER\_PRICING VALUES(2,3,5,30000);

INSERT INTO SUPPLIER\_PRICING VALUES(3,5,1,3000);

INSERT INTO SUPPLIER\_PRICING VALUES(4,2,3,2500);

INSERT INTO SUPPLIER\_PRICING VALUES(5,4,1,1000);

INSERT INTO SUPPLIER\_PRICING VALUES(6,12,2,780);

INSERT INTO SUPPLIER\_PRICING VALUES(7,12,4,789);

INSERT INTO SUPPLIER\_PRICING VALUES(8,3,1,31000);

INSERT INTO SUPPLIER\_PRICING VALUES(9,1,5,1450);

INSERT INTO SUPPLIER\_PRICING VALUES(10,4,2,999);

INSERT INTO SUPPLIER\_PRICING VALUES(11,7,3,549);

INSERT INTO SUPPLIER\_PRICING VALUES(12,7,4,529);

INSERT INTO SUPPLIER\_PRICING VALUES(13,6,2,105);

INSERT INTO SUPPLIER\_PRICING VALUES(14,6,1,99);

INSERT INTO SUPPLIER\_PRICING VALUES(15,2,5,2999);

INSERT INTO SUPPLIER\_PRICING VALUES(16,5,2,2999);

INSERT INTO `ORDER` VALUES (101,1500,"2021-10-06",2,1);

INSERT INTO `ORDER` VALUES(102,1000,"2021-10-12",3,5);

INSERT INTO `ORDER` VALUES(103,30000,"2021-09-16",5,2);

INSERT INTO `ORDER` VALUES(104,1500,"2021-10-05",1,1);

INSERT INTO `ORDER` VALUES(105,3000,"2021-08-16",4,3);

INSERT INTO `ORDER` VALUES(106,1450,"2021-08-18",1,9);

INSERT INTO `ORDER` VALUES(107,789,"2021-09-01",3,7);

INSERT INTO `ORDER` VALUES(108,780,"2021-09-07",5,6);

INSERT INTO `ORDER` VALUES(109,3000,"2021-0-10",5,3);

INSERT INTO `ORDER` VALUES(110,2500,"2021-09-10",2,4);

INSERT INTO `ORDER` VALUES(111,1000,"2021-09-15",4,5);

INSERT INTO `ORDER` VALUES(112,789,"2021-09-16",4,7);

INSERT INTO `ORDER` VALUES(113,31000,"2021-09-16",1,8);

INSERT INTO `ORDER` VALUES(114,1000,"2021-09-16",3,5);

INSERT INTO `ORDER` VALUES(115,3000,"2021-09-16",5,3);

INSERT INTO `ORDER` VALUES(116,99,"2021-09-17",2,14);

INSERT INTO RATING VALUES(1,101,4);

INSERT INTO RATING VALUES(2,102,3);

INSERT INTO RATING VALUES(3,103,1);

INSERT INTO RATING VALUES(4,104,2);

INSERT INTO RATING VALUES(5,105,4);

INSERT INTO RATING VALUES(6,106,3);

INSERT INTO RATING VALUES(7,107,4);

INSERT INTO RATING VALUES(8,108,4);

INSERT INTO RATING VALUES(9,109,3);

INSERT INTO RATING VALUES(10,110,5);

INSERT INTO RATING VALUES(11,111,3);

INSERT INTO RATING VALUES(12,112,4);

INSERT INTO RATING VALUES(13,113,2);

INSERT INTO RATING VALUES(14,114,1);

INSERT INTO RATING VALUES(15,115,1);

INSERT INTO RATING VALUES(16,116,0);

**Q3) Ans:**

select count(\*) AS "TOTAL CUSTOMERS", cus\_gender from customer

where customer.cus\_id in(select distinct(cus\_id) from `order` where ord\_amount >= 3000)

group by cus\_gender;

**Q4) Ans:**

select product.pro\_name, `order`.\* from `order`, supplier\_pricing, product

where `order`.cus\_id=2 and `order`.pricing\_id=supplier\_pricing.pricing\_id and supplier\_pricing.pro\_id=product.pro\_id;

**Q5) Ans:**

select supplier.\* from supplier

where supplier.supp\_id in (select supp\_id from supplier\_pricing group by supp\_id

having count(supp\_id) > 2);

**Q6) Ans:**

select category.cat\_id, category.cat\_name, min(supplier\_pricing.supp\_price)

from product, supplier\_pricing, category

where supplier\_pricing.pro\_id=product.pro\_id

and category.cat\_id=product.cat\_id

group by product.cat\_id;

**Q7) Ans:**

select product.pro\_id,product.pro\_name from `order` inner join supplier\_pricing on supplier\_pricing.pricing\_id=`order`.pricing\_id inner join product

on product.pro\_id=supplier\_pricing.pro\_id where `order`.ord\_date>"2021-10-05";

**Q8) Ans:**

select customer.cus\_name,customer.cus\_gender from customer where customer.cus\_name like 'A%' or customer.cus\_name like '%A';

**Q9 Ans:**

DELIMITER $$

USE `order-directory`$$

CREATE DEFINER=`root`@`localhost` PROCEDURE `supplier\_ratings`()

BEGIN

select sup.SUPP\_ID as 'supplier id' , sup.SUPP\_NAME as 'name' , ROUND(avg(rat\_ratstars),2) as 'rating',

case

when avg(rat\_ratstars) = 5 then 'Excellent Service'

when avg(rat\_ratstars) > 4 then 'Good Service'

when avg(rat\_ratstars) > 2 then 'Average Service'

else 'Poor Service'

end as Type\_of\_Service

from supplier sup, `order` ord, supplier\_pricing sp, rating rat

where ord.ORD\_ID = rat.ORD\_ID and sup.SUPP\_ID = sp.SUPP\_ID

and sp.PRICING\_ID = ord.PRICING\_ID

GROUP BY sup.SUPP\_ID ORDER BY sup.SUPP\_ID;

END$$

DELIMITER ;