Use Data Modeler to design a Database schema for a customer-sale scenario as shown below.

customer(cust_id,cust_name) primary key(cust_id).

Item(item_id,item_name,price) primary key(item_id)

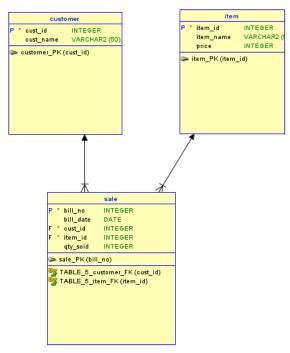
Sale(bill_no,bill_date,cust_id,item_id,qty_sold) primary key(bill_no),foreign key(cust_id),foreign key(item_id).

Find

- a. Create the tables using data modeler.
 - Insert around 10 records in each of the tables.
- b. List all the bills for the current date with the customer name and item_no.
- c. List the total bill detail with the quantity sold, price of the item and final amount.
- d. List the details of the customer who have brought a product which has price>200.
- e. Give a count of how many product have been brought by each customer.
- f. Give a list of product brought by a customer having cust_id 5.
- g. List the item details which are sold as of today.

Answers:

a)



c) SQL> SELECT bill_no, bill_date, cust_id, sale.item_id, qty_sold, qty_sold*item.price as TOTAL FROM sale JOIN item ON sale.item_id=item.item_id; BILL_NO BILL_DATE CUST_ID ITEM_ID QTY_SOLD TOTAL 1 11-NOV-22 600 2 11-NOV-22 1 600 2 2 3 3 11-NOV-22 500 4 11-NOV-22 1000 2 4 5 11-NOV-22 10 800 6 11-NOV-22 1050 7 11-NOV-22 1 900 8 11-NOV-22 750 2 9 11-NOV-22 1 10 5000 10 11-NOV-22 400 10 rows selected.

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d)
SQL> SELECT DISTINCT(customer.cust_id), cust_name FROM customer JOIN sale ON sale.cust_
id=customer.cust_id WHERE sale.item_id IN (SELECT item_id FROM item WHERE price>200);

CUST_ID CUST_NAME

1 zameel
2 vivek
```

e)

SQL> SELECT cust_id, COUNT(DISTINCT(item_id)) as QTY_PROD FROM sale GROUP BY cust_id;

CUST_ID QTY_PROD

1 7
2 3

f)

SQL> SELECT i.item_id, i.item_name, i.price FROM item i JOIN sale s ON s.item_id=i.item
_id WHERE s.cust_id=5;

ITEM_ID ITEM_NAME PRICE

2 ghee 250
3 rice 80
6 meat 500

g) SQL> SELECT DISTINCT(i.item_id), i.item_name, i.price FROM item i JOIN sale s ON i.item _id=s.item_id WHERE s.bill_date='11-NOV-2022' ORDER BY i.item_id; ITEM_ID ITEM_NAME PRICE 1 oil 200 2 ghee 250 3 rice 80 4 spices 350 5 vegetables 150 500 6 meat Activate Windows 7 misc 7 rows selected. Go to Settings to activate Windows.