# **Data Modeler Familiarization**

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

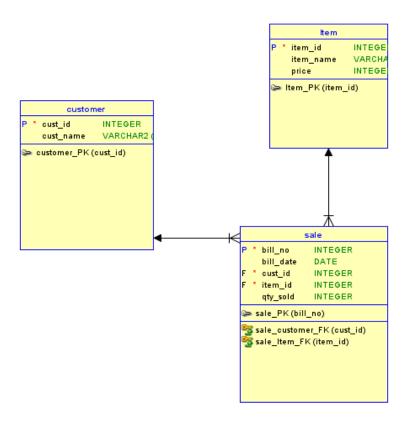
Sale(bill\_no,bill\_date,cust\_id,item\_id,qty\_sold) primary key(bill\_no),foreign key(cust\_id),foreign key(item\_id).

# Find:

a. Create the tables using data modeler.

Insert around 10 records in each of the tables.

# Ans:



b. List all the bills for the current date with the customer name and item\_no.

# Ans:

SQL> select bill_no, bill_date,	cust_name, item_id, qty_sold from sale join customer on customer.cust_id = sale.cust_id WHERE sale.bill_date='11-NOV-2022';
BILL_NO BILL_DATE CUST_NAME	ITEM_ID QTY_SOLD
4 11-NOV-22 Vivek 6 11-NOV-22 Krishnendu	7 5 1 2

c. List the total bill detail with the quantity sold, price of the item and final amount.

# Ans:

SQL> select bill_no, bill_date, cust_id, sale.item_id, qty_sold, item.price, qty_sold*i tem.price as Total from sale join item on sale.item_id = item.item_id;									
BILL_NO	BILL_DATE	CUST_ID	ITEM_ID	QTY_SOLD	PRICE	TOTAL			
1	21-DEC-22	40	4	3	60	180			
2	14-APR-22	70	8	1	360	360			
3	20-JUN-22	61	10	3	180	540			
4	11-NOV-22	69	7	5	400	2000			
5	23-JUL-22	69	9	1	100	100			
6	11-NOV-22	15	1	2	400	800			
7	02-0CT-22	15	6	1	300	300			
8	03-0CT-22	61	5	3	50	150			
9	03-0CT-22	15	3	2	250	500			
10	03-0CT-22	69	4	2	60	120			
10 rows sel	ected.								

d. List the details of the customer who have brought a product which has price>200. Ans:

```
SQL> select distinct(customer.cust_id), customer.cust_name from customer join sale on c
ustomer.cust_id = sale.cust_id where sale.item_id in (select item_id from item where pr
ice > 200);

CUST_ID CUST_NAME

70 Zemeel
15 Krishnendu
69 Vivek
```

e. Give a count of how many product have been brought by each customer.

#### Ans:

```
SQL> SELECT cust_id, count(item_id) as Products from sale group by(cust_id);

CUST_ID PRODUCTS

70 1
61 2
69 3
40 1
15 3 Activate Windows
```

f. Give a list of product brought by a customer having cust\_id 5.

# Ans:

g. List the item details which are sold as of today.

# Ans:

```
SQL> select i.item_id, i.item_name, i.price from item i join sale s on s.item_id = i.it
em_id where s.bill_date='11-NOV-2022';

ITEM_ID ITEM_NAME PRICE

7 Vegetables 400
1 Rice 400
```