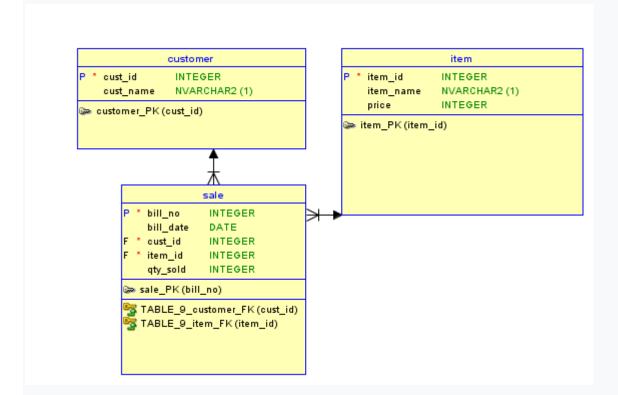
## Use Data Modeler to design a Database schema for a customer-sale scenario as shown below.

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.

```
SQL> select * from customer;

CUST_ID CUST_NAME

1 susan
2 alu
3 summaya
4 annu
5 sree
6 rosh
7 milu
8 reebs
9 steffy
10 zameel
```

SQL> select * from item	;	
ITEM_ID ITEM_NAME	PRICE	
	 50	
2 bread	50	
3 nutella	200	
4 icecream	400	
5 lipstick	300	
6 shoe	600	
7 shirt	400	
8 eyeliner	30	
9 watch	650	
10 keyboard	1000	
10 rows selected.		

```
SQL> select * from sale;
   BILL NO BILL DATE
                         CUST_ID
                                     ITEM_ID
                                                QTY_SOLD
         1 13-NOV-21
                                                        3
                                1
                                            1
                                1
                                                        4
         2 12-DEC-21
                                            1
                                                        5
         3 09-FEB-20
                                3
                                            3
                                                        1
         4 29-DEC-01
                                4
                                            4
                                5
         5 31-JAN-19
                                            5
                                                        8
         6 02-APR-99
                                6
                                            6
                                                        2
                                7
                                                        7
         7 22-FEB-22
                                                        3
         8 19-DEC-22
                                8
                                            8
         9 26-0CT-20
                                            9
                                                        1
                               9
        10 01-JAN-01
                               10
                                           10
                                                        7
10 rows selected.
```

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

```
SQL> select bill_no , bill_date ,cust_name,item_id,qty_sold from sale join customer on customer.cust_id=sale.cust_id where bill_date ='11-nov-2022';
no rows selected
```

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.

```
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>2

CUST_ID CUST_NAME

4 annu
6 rosh
5 sree
10 zamee1
9 steffy
7 milu
6 rows selected.
```

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.

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; no rows selected