

NAME :ALICE DURGE

ROLL NO : 5840

CLASS:SYCS A

## **DBMS CA2 PROJECT**

### **Topic : ONLINE STORE**

#### **INTRODUCTION:**

The following database is based on an online store which contains information about products , customers and order related details.

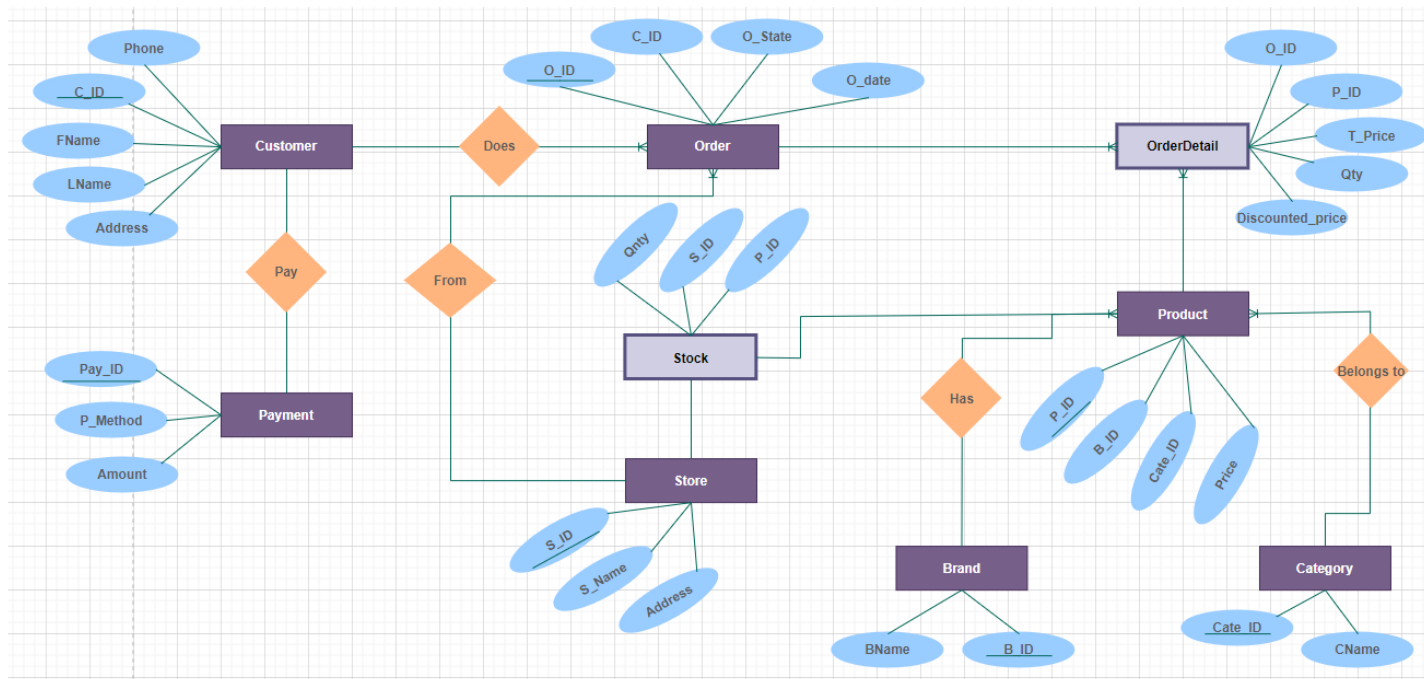
In this database there are 9 entities along with their associative attributes. Also some queries are performed on the database containing aggregate functions with group by , joins , update , sorting , select using where clause , create views ,subquery and drop commands.

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## E-R DIAGRAM



### ONLINE STORE DIAGRAM LINK:

<https://drive.google.com/file/d/1eslvGjCIF3UMcnQxQ0o8mR5khHW8MMqd/view?usp=sharing>

### ONLINE STORE DATASET LINK:

[https://docs.google.com/spreadsheets/d/1dxn9ZoDkCuC-Q-8-y\\_uuaGVJ5-T2zMA40HqVixQ3mDw/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1dxn9ZoDkCuC-Q-8-y_uuaGVJ5-T2zMA40HqVixQ3mDw/edit?usp=sharing)

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**CREATION OF TABLES IN DATABASE:**

**CATEGORY:**

SQL> create table category

2 (cate\_id varchar(4) constraint cat\_prikey Primary key constraint ckcate\_id check(cate\_id like 'C%'),

3 cname char(18) not null);

Table created.

SQL> insert into category

2 values('C001','clothes');

1 row created.

SQL> insert into category

2 values('C002','laptop');

1 row created.

SQL> insert into category

2 values('C003','mobiles');

1 row created.

SQL> insert into category

2 values('C004','accessories');

1 row created.

SQL> insert into category

2 values('C005','home\_appliances');

1 row created.

SQL> insert into category

2 values('C006','others');

1 row created.

SQL> select \* from category;

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CATE CNAME

-----

C001 clothes

C002 laptop

C003 mobiles

C004 accessories

C005 home\_appliances

C006 others

6 rows selected.

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**BRAND:**

SQL> create table brand

2 (b\_id varchar(6) constraint brnd\_prikey Primary key constraint ckb\_id check(b\_id like 'B%'),  
3 bname char(18) not null);

Table created.

SQL> insert into brand

2 values('B00101','urbanic');

1 row created.

SQL> insert into brand

2 values('B00102','max\_fashion');

1 row created.

SQL> insert into brand

2 values('B00103','lenovo');

1 row created.

SQL> insert into brand

2 values('B00104','dell');

1 row created.

SQL> insert into brand

2 values('B00105','realme');

1 row created.

SQL> insert into brand

2 values('B00106','apple');

1 row created.

SQL> insert into brand

2 values('B00107','voyla');

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1 row created.

```
SQL> insert into brand
      2 values('B00108','titan');
```

1 row created.

```
SQL> insert into brand
      2 values('B00109','jjwood');
```

1 row created.

```
SQL> insert into brand
      2 values('B00110','home_decor');
```

1 row created.

```
SQL> insert into brand
      2 values('B00111','himalaya');
```

1 row created.

```
SQL> insert into brand
      2 values('B00112','garnier');
```

1 row created.

```
SQL> select * from brand;
```

```
B_ID  BNAME
-----
B00101 urbanic
B00102 max_fashion
B00103 lenovo
B00104 dell
B00105 realme
B00106 apple
B00107 voyla
B00108 titan
```

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B00109 jjwood

B00110 home\_decor

B00111 himalaya

B\_ID BNAME

-----

B00112 garnier

12 rows selected.

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**PRODUCT:**

SQL> create table product

2 (p\_id varchar(6) constraint prdct\_prikey Primary key constraint ckprdct\_id check(p\_id like 'P%'),

3 b\_id varchar(6) constraint chkb\_id check(b\_id like 'B%') ,

4 cate\_id varchar(4) constraint chkcate\_id check(cate\_id like 'C%'),

5 price number constraint chkprice check(price>0),

6 foreign key (b\_id) references brand(b\_id),

7 foreign key (cate\_id) references category(cate\_id));

Table created.

SQL> insert into product

2 values('P00001','B00101','C001',500);

1 row created.

SQL> insert into product

2 values('P00002','B00101','C001',400);

1 row created.

SQL> insert into product

2 values('P00003','B00102','C001',300);

1 row created.

SQL> insert into product

2 values('P00004','B00102','C001',700);

1 row created.

SQL> insert into product

2 values('P00005','B00103','C002',50000);

1 row created.

SQL> insert into product

2 values('P00006','B00103','C002',45000);



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1 row created.

SQL> insert into product

2 values('P00007','B00104','C002',40000);

1 row created.

SQL> insert into product

2 values('P00008','B00104','C002',35000);

1 row created.

SQL> insert into product

2 values('P00009','B00105','C003',10000);

1 row created.

SQL> insert into product

2 values('P00010','B00105','C003',9000);

1 row created.

SQL> insert into product

2 values('P00011','B00106','C003',47000);

1 row created.

SQL> insert into product

2 values('P00012','B00106','C003',48000);

1 row created.

SQL> insert into product

2 values('P00013','B00107','C004',1250);

1 row created.

SQL> insert into product

2 values('P00014','B00107','C004',1500);

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1 row created.

SQL> insert into product

2 values('P00015','B00108','C004',1700);

1 row created.

SQL> insert into product

2 values('P00016','B00108','C004',2000);

1 row created.

SQL> insert into product

2 values('P00017','B00109','C005',5000);

1 row created.

SQL> insert into product

2 values('P00018','B00109','C005',10000);

1 row created.

SQL> insert into product

2 values('P00019','B00110','C005',750);

1 row created.

SQL> insert into product

2 values('P00020','B00110','C005',900);

1 row created.

SQL> insert into product

2 values('P00021','B00111','C006',50);

1 row created.

SQL> insert into product

2 values('P00022','B00111','C006',75);

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1 row created.

SQL> insert into product

2 values('P00023','B00112','C006',90);

1 row created.

SQL> insert into product

2 values('P00024','B00112','C006',150);

1 row created.

SQL> select \* from product;

P_ID	B_ID	CATE	PRICE
P00001	B00101	C001	500
P00002	B00101	C001	400
P00003	B00102	C001	300
P00004	B00102	C001	700
P00005	B00103	C002	50000
P00006	B00103	C002	45000
P00007	B00104	C002	40000
P00008	B00104	C002	35000
P00009	B00105	C003	10000
P00010	B00105	C003	9000
P00011	B00106	C003	47000

P_ID	B_ID	CATE	PRICE
P00012	B00106	C003	48000
P00013	B00107	C004	1250
P00014	B00107	C004	1500
P00015	B00108	C004	1700
P00016	B00108	C004	2000
P00017	B00109	C005	5000
P00018	B00109	C005	10000
P00019	B00110	C005	750
P00020	B00110	C005	900
P00021	B00111	C006	50

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P00022 B00111 C006 75

P_ID	B_ID	CATE	PRICE
------	------	------	-------

-----

P00023	B00112	C006	90
--------	--------	------	----

P00024	B00112	C006	150
--------	--------	------	-----

24 rows selected.

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**STORE:**

SQL> create table store

2 (s\_id varchar(4) constraint cks\_id\_prikey primary key constraint chks\_id check(s\_id like'S%'),

3 sname char(15) not null,

4 saddr varchar(20) not null);

Table created.

SQL>insert into store

2 values('S101','clothe','Tamil Nadu');

1 row created.

SQL> insert into store

2 values('S102','laptops','Gujarat');

1 row created.

SQL> insert into store

2 values('S103','mobiles','Delhi');

1 row created.

SQL> insert into store

2 values('S104','electronics','Maharashtra');

1 row created.

SQL> insert into store

2 values('S105','jewelry','Kerala');

1 row created.

SQL> insert into store

2 values('S106','facials','Himachal Pradesh');

1 row created.

SQL> select \* from store;

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S_ID SNAME	SADDR
S101 clothe	Tamil Nadu
S102 laptops	Gujarat
S103 mobiles	Delhi
S104 electronics	Maharashtra
S105 jewelry	Kerala
S106 facials	Himachal Pradesh

6 rows selected.

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**STOCK:**

SQL> create table stock

- 2 (s\_id varchar(4) constraint cks\_id check(s\_id like 'S%'),
- 3 p\_id varchar(6) constraint chkprdct\_id check(p\_id like 'P%'),
- 4 qnty number,
- 5 foreign key (s\_id) references store(s\_id),
- 6 foreign key (p\_id) references product(p\_id));

Table created.

SQL> insert into stock

- 2 values('S101','P00001',50);

1 row created.

SQL> insert into stock

- 2 values('S101','P00002',55);

1 row created.

SQL> insert into stock

- 2 values('S101','P00003',60);

1 row created.

SQL> insert into stock

- 2 values('S101','P00004',65);

1 row created.

SQL> insert into stock

- 2 values('S102','P00005',30);

1 row created.

SQL> insert into stock

- 2 values('S102','P00006',20);

1 row created.

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```
SQL> insert into stock  
2 values('S102','P00007',25);
```

1 row created.

```
SQL> insert into stock  
2 values('S102','P00008',25);
```

1 row created.

```
SQL> insert into stock  
2 values('S103','P00009',25);
```

1 row created.

```
SQL> insert into stock  
2 values('S103','P00010',30);
```

1 row created.

```
SQL> insert into stock  
2 values('S103','P00011',35);
```

1 row created.

```
SQL> insert into stock  
2 values('S103','P00012',40);
```

1 row created.

```
SQL> insert into stock  
2 values('S104','P00013',50);
```

1 row created.

```
SQL> insert into stock  
2 values('S104','P00014',55);
```

1 row created.



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```
SQL> insert into stock  
2 values('S104','P00015',60);
```

1 row created.

```
SQL> insert into stock  
2 values('S104','P00016',65);
```

1 row created.

```
SQL> insert into stock  
2 values('S105','P00017',45);
```

1 row created.

```
SQL> insert into stock  
2 values('S105','P00018',30);
```

1 row created.

```
SQL> insert into stock  
2 values('S105','P00019',15);
```

1 row created.

```
SQL> insert into stock  
2 values('S105','P00020',10);
```

1 row created.

```
SQL> insert into stock  
2 values('S106','P00021',10);
```

1 row created.

```
SQL> insert into stock  
2 values('S106','P00022',20);
```

1 row created.

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```
SQL> insert into stock
  2 values('S106','P00023',65);
```

1 row created.

```
SQL> insert into stock
  2 values('S106','P00024',80);
```

1 row created.

```
SQL> select * from stock;
```

S_ID	P_ID	QNTY
S101	P00001	50
S101	P00002	55
S101	P00003	60
S101	P00004	65
S102	P00005	30
S102	P00006	20
S102	P00007	25
S102	P00008	25
S103	P00009	25
S103	P00010	30
S103	P00011	35

S_ID	P_ID	QNTY
S103	P00012	40
S104	P00013	50
S104	P00014	55
S104	P00015	60
S104	P00016	65
S105	P00017	45
S105	P00018	30
S105	P00019	15
S105	P00020	10
S106	P00021	10
S106	P00022	20

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S_ID	P_ID	QNTY
S106	P00023	65
S106	P00024	80

24 rows selected.

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**CUSTOMER:**

SQL> create table cust

- 2 (c\_id varchar(6) constraint cust\_prikey primary key constraint ckc\_id check(c\_id like'C%'),
- 3 fname char(10) not null,
- 4 lname char(10) not null,
- 5 addr varchar(50) not null,
- 6 phone number(10) not null);

Table created.

SQL> insert into cust

- 2 values('C00101','joshna','durge','b-506,neel siddhi ,sec-17,panvel,mumbai',9000011122);

1 row created.

SQL> insert into cust

- 2 values('C00102','sai','joshi','a-201,enkay chs,sec-20,manhari,shimla ',9000011133);

1 row created.

SQL> insert into cust

- 2 values('C00103','amy','dsouza','d-302,realgal chs,sec-10,ooty ,mysore',9000011144);

1 row created.

SQL> insert into cust

- 2 values('C00104','jennie','park','a-405,gokul society,sec-6,kochim,chennai',9000011155);

1 row created.

SQL> insert into cust

- 2 values('C00105','alice','whittaker','b-206,classic,sec-12,trinagar,hyderabad',9000011166);

1 row created.

SQL> insert into cust

- 2 values('C00106','riya','patel','c-602,melody tower ,sec-18,sabarmati,vadodara',9000011177);

1 row created.

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SQL> select \* from cust;

C_ID	FNAME	LNAME	ADDR	PHONE
C00101	joshna	durge	b-506,neel siddhi ,sec-17,panvel,mumbai	9000011122
C00102	sai	joshi	a-201,enKay chs,sec-20,manhari,shimla	9000011133
C00103	amy	dsouza	d-302,realgal chs,sec-10,ooty ,mysore	9000011144
C00104	jennie	park	a-405,gokul society,sec-6,kochim,chennai	9000011155
C00105	alice	whittaker	b-206,classic,sec-12,trinagar,hyderabad	9000011166
C00106	riya	patel	c-602,melody tower ,sec-18,sabarmati,vadodara	9000011177

6 rows selected.

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**ORDER:**

SQL> create table ordr

- 2 (o\_id varchar(6) constraint oid\_prikey primary key constraint cko\_id check(o\_id like'O%'),
- 3 c\_id varchar(6) constraint chkc\_id check(c\_id like'C%'),
- 4 o\_state char(25) not null,
- 5 o\_date date,
- 6 foreign key (c\_id) references cust(c\_id));

Table created.

SQL> insert into ordr

- 2 values('O00101','C00101','maharashtra','6-Jul-2022');

1 row created.

SQL> insert into ordr

- 2 values('O00102','C00102','himachal pradesh','2-Jul-2022');

1 row created.

SQL> insert into ordr

- 2 values('O00103','C00103','karnataka','9-Jul-2022');

1 row created.

SQL> insert into ordr

- 2 values('O00104','C00104','tamil nadu','6-Jul-2022');

1 row created.

SQL> insert into ordr

- 2 values('O00105','C00105','telangana','10-Jul-2022');

1 row created.

SQL> insert into ordr

- 2 values('O00106','C00106','gujarat','4-Jul-2022');

1 row created.

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SQL> select \* from ordr;

O_ID	C_ID	O_STATE	O_DATE
O00101	C00101	maharashtra	06-JUL-22
O00102	C00102	himachal pradesh	02-JUL-22
O00103	C00103	karnataka	09-JUL-22
O00104	C00104	tamil nadu	06-JUL-22
O00105	C00105	telangana	10-JUL-22
O00106	C00106	gujarat	04-JUL-22

6 rows selected.

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**ORDER DETAILS:**

SQL> create table ordr\_details

- 2 (o\_id varchar(6) constraint chhko\_id check(o\_id like'O%'),
- 3 p\_id varchar(6) constraint chhkp\_id check(p\_id like'P%'),
- 4 t\_price number ,
- 5 qty number constraint chhkqty check(qty > 0),
- 6 discount number,
- 7 foreign key (o\_id) references ordr(o\_id),
- 8 foreign key (p\_id) references product(p\_id));

Table created.

SQL> insert into ordr\_details

- 2 values('O00101','P00013',4800,4,200);

1 row created.

SQL> insert into ordr\_details

- 2 values('O00102','P00019',2200,3,50);

1 row created.

SQL> insert into ordr\_details

- 2 values('O00103','P00005',45000,1,5000);

1 row created.

SQL> insert into ordr\_details

- 2 values('O00104','P00021',230,5,20);

1 row created.

SQL> insert into ordr\_details

- 2 values('O00105','P00010',17000,2,1000);

1 row created.

SQL> insert into ordr\_details

- 2 values('O00106','P00001',1400,3,100);



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1 row created.

SQL> select \* from ordr\_details;

O_ID	P_ID	T_PRICE	QTY	DISCOUNT
O00101	P00013	4800	4	200
O00102	P00019	2200	3	50
O00103	P00005	45000	1	5000
O00104	P00021	230	5	20
O00105	P00010	17000	2	1000
O00106	P00001	1400	3	100

6 rows selected.

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**PAYMENT:**

SQL> create table payment

2 (pay\_id varchar(4) constraint ckpay\_id primary key constraint chkpay\_id check(pay\_id like'P%'),

3 p\_method varchar(20) constraint chkpmethod check(p\_method in('cod','paytm','debit\_card','credit\_card')),

4 amt number);

Table created.

SQL> insert into payment

2 values('P101','cod',4800);

1 row created.

SQL> insert into payment

2 values('P102','paytm',2200);

1 row created.

SQL> insert into payment

2 values('P103','debit\_card',45000);

1 row created.

SQL> insert into payment

2 values('P104','cod',230);

1 row created.

SQL> insert into payment

2 values('P105','credit\_card',17000);

1 row created.

SQL> insert into payment

2 values('P106','paytm',1400);

1 row created.

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SQL> select \* from payment;

PAY_P_METHOD	AMT
P101 cod	4800
P102 paytm	2200
P103 debit_card	45000
P104 cod	230
P105 credit_card	17000
P106 paytm	1400

6 rows selected.

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**QUERIES:**

**1.Group all the product ids according to the store id to which they belong and display the count of products at each store .**

```
SQL> select s_id,count(p_id)
2  from stock
3  group by s_id;
```

S\_ID COUNT(P\_ID)

-----

S101	4
S102	4
S103	4
S104	4
S105	4
S106	4

6 rows selected.

**2.Display all the product id and their brand name according to their prices in ascending order.**

```
SQL> select p_id,bname,price
2  from product inner join brand
3  on product.b_id=brand.b_id
4  order by price;
```

P_ID	BNAME	PRICE
------	-------	-------

-----

P00021	himalaya	50
P00022	himalaya	75
P00023	garnier	90
P00024	garnier	150
P00003	max_fashion	300
P00002	urbanic	400
P00001	urbanic	500
P00004	max_fashion	700
P00019	home_decor	750
P00020	home_decor	900
P00013	voyla	1250

P_ID	BNAME	PRICE
------	-------	-------

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```
-----
P00014 voyla          1500
P00015 titan          1700
P00016 titan          2000
P00017 jjwood         5000
P00010 realme          9000
P00018 jjwood        10000
P00009 realme        10000
P00008 dell          35000
P00007 dell          40000
P00006 lenovo         45000
P00011 apple          47000
```

```
P_ID  BNAME          PRICE
-----
P00012 apple        48000
P00005 lenovo       50000
```

24 rows selected.

### 3.Update the phone number of the customer named jennie park.

```
SQL> update cust
  2 set phone=9000012345
  3 where fname='jennie';
```

1 row updated.

```
SQL> select * from cust
  2 where fname='jennie';
```

```
C_ID  FNAME    LNAME    ADDR
-----
      PHONE
-----
C00104 jennie  park     a-405,gokul society,sec-6,kochim,chennai
9000012345
```

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**4.Display all the product id along with their quantity , store name and store address where they are manufactured.**

```
SQL> select p_id,qnty,sname,saddr
  2  from stock inner join store
  3  on stock.s_id=store.s_id;
```

P_ID	QNTY	SNAME	SADDR
P00001	50	clothe	Tamil Nadu
P00002	55	clothe	Tamil Nadu
P00003	60	clothe	Tamil Nadu
P00004	65	clothe	Tamil Nadu
P00005	30	laptops	Gujarat
P00006	20	laptops	Gujarat
P00007	25	laptops	Gujarat
P00008	25	laptops	Gujarat
P00009	25	mobiles	Delhi
P00010	30	mobiles	Delhi
P00011	35	mobiles	Delhi

P_ID	QNTY	SNAME	SADDR
P00012	40	mobiles	Delhi
P00013	50	electronics	Maharashtra
P00014	55	electronics	Maharashtra
P00015	60	electronics	Maharashtra
P00016	65	electronics	Maharashtra
P00017	45	jewelry	Kerala
P00018	30	jewelry	Kerala
P00019	15	jewelry	Kerala
P00020	10	jewelry	Kerala
P00021	10	facials	Himachal Pradesh
P00022	20	facials	Himachal Pradesh

P_ID	QNTY	SNAME	SADDR
P00023	65	facials	Himachal Pradesh
P00024	80	facials	Himachal Pradesh

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24 rows selected.

**5.Create a view for the customers with their first name joshna and amy along with their details and display it.**

SQL> create view joshna as

2 select \* from cust

3 where fname='joshna';

View created.

SQL> select \* from joshna;

C_ID	FNAME	LNAME	ADDR
-----			
	PHONE		
-----			
C00101	joshna	durge	b-506,neel siddhi ,sec-17,panvel,mumbai
900001	1122		

SQL> create view amy as

2 select \* from cust

3 where fname='amy';

View created.

SQL> select \* from amy;

C_ID	FNAME	LNAME	ADDR
-----			
	PHONE		
-----			
C00103	amy	dsouza	d-302,reagal chs,sec-10,ooty ,mysore
900001	1144		

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**6.Display all the customers along with their customer id , order id ,order date and sort data according to date in ascending order.**

```
SQL> select fname,lname,cust.c_id,o_id,o_date
  2  from cust inner join ordr
  3  on cust.c_id=ordr.c_id
  4  order by o_date;
```

FNAME	LNAME	C_ID	O_ID	O_DATE
-------	-------	------	------	--------

sai	joshi	C00102	O00102	02-JUL-22
riya	patel	C00106	O00106	04-JUL-22
joshna	durge	C00101	O00101	06-JUL-22
jennie	park	C00104	O00104	06-JUL-22
amy	dsouza	C00103	O00103	09-JUL-22
alice	whittaker	C00105	O00105	10-JUL-22

6 rows selected.

**7.Display all product ids whose quantity in stock is less than 50.**

```
SQL> select p_id,qnty from stock
  2  where qnty<50;
```

P_ID	QNTY
------	------

P00005	30
P00006	20
P00007	25
P00008	25
P00009	25
P00010	30
P00011	35
P00012	40
P00017	45
P00018	30
P00019	15

P_ID	QNTY
------	------

P00020	10
P00021	10



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P00022      20

14 rows selected.

**8.Display all the order details whose total price is greater than 1000.**

SQL> select \* from ordr\_details

2 where t\_price>1000;

O_ID	P_ID	T_PRICE	QTY	DISCOUNT
O00101	P00013	4800	4	200
O00102	P00019	2200	3	50
O00103	P00005	45000	1	5000
O00105	P00010	17000	2	1000
O00106	P00001	1400	3	100

**9.Rename customer table to customers .**

SQL> rename cust to customers;

Table renamed.

**10.Drop stock table.**

SQL> drop table stock;

Table dropped.