

```

FOREIGN KEY (cno) REFERENCES clients (cno),

PRIMARY KEY (pno,cno)
);

CREATE TABLE productdetails
(
    pno number(10),
    sno number(10),
    productrate real,
    FOREIGN KEY (pno) REFERENCES products (pno),
    FOREIGN KEY (sno) REFERENCES salesman (sno),

    PRIMARY KEY (pno,sno)
);

INSERT INTO products VALUES('slipper',100,500,'paragon');
INSERT INTO products VALUES('Laptop',102,200000,'hp');
INSERT INTO products VALUES('Television',103,3000,'vermillion');

INSERT INTO clients VALUES(200,'jason',50,'kalos','luminous',110011);
INSERT INTO clients VALUES(201,'raph',500,'hoenn','mauville',120022);
INSERT INTO clients values(203,'nathon',60,'alola','hauoli',120011);

INSERT INTO salesman VALUES(300,'merchantA','coal','bituminous',130012,500);
INSERT INTO salesman VALUES(301,'merchantb','capricon','valley',140029,400);

INSERT INTO orders VALUES(401,'04/02/2022','04/20/2022',2000,203,300);
INSERT INTO orders VALUES(400,'04/01/2022','04/28/2022',2000,200,300);
INSERT INTO orders VALUES(402,'04/05/2022','05/02/2022',100,201,301);

INSERT INTO saletto VALUES(100,203);
INSERT INTO saletto VALUES(103,200);
INSERT INTO saletto VALUES(103,201);

INSERT INTO productdetails VALUES(100,300,3000);
INSERT INTO productdetails VALUES(102,300,3420);
INSERT INTO productdetails VALUES(103,301,3400);
INSERT INTO productdetails VALUES(103,300,400);
INSERT INTO productdetails VALUES(102,301,7777);

```

DML Commands

Viewing the Created Tables

select * from products			
PNAME	PNO	SP	MNAME
slipper	100	500	paragon
Television	103	3000	vermillion
Laptop	102	200000	hp

select * from clients					
CNO	CNAME	TOTAL_BALANCE	CSTATE	CITY	PINCODE
203	nathon	60	alola	hauoli	120011
200	jason	50	kalos	lumious	110011
201	raph	500	hoenn	mauville	120022

select * from salet	
PNO	CNO
100	203
103	200
103	201

select * from salesman					
SNO	SNAME	CITY	SSTATE	PINCODE	TOTALQTY
300	merchantA	coal	bituminous	130012	500
301	merchantB	capricon	valley	140029	400

select * from orders					
ORDERNO	SODATE	DELDATE	BILLEDPAY	CNO	SNO
402	04/05/2022	05/02/2022	100	201	300
400	04/01/2022	04/28/2022	2000	200	300
401	04/02/2022	04/20/2022	2000	203	301

select * from productdetails		
PNO	SNO	PRODUCTRATE
100	300	3000
103	301	3400
103	300	400
102	300	3420

SQL Queries for Validation

1) Display the names of clients who have an 'p' as third letter in their name.

```
Select cname  
from clients  
where cname LIKE '__p%'
```

Output

CNAME
raph

2) Display the salesman names and delivery date for those salesmen who got orders with delivery date for month of May.

```
SELECT sname,deldate  
from salesman,orders  
where TO_CHAR(deldate, 'Mon') = 'May' AND salesman.sno = orders.sno
```

Output

SNAME	DELDATE
merchantA	05/02/2022

3) Display the name of all salesmen along with the product details of the products which they can sell to clients.

```
SELECT sname, pname  
FROM salesman, products, productdetails  
WHERE productdetails.sno = salesman.sno AND products.pno = productdetails.pno
```

Output

SNAME	PNAME
merchantA	slipper
merchantA	Laptop
merchantB	Laptop
merchantA	Television
merchantB	Television

4) Show the details for the Orders placed with client name, salesman, product name.

```
SELECT cname,sname,pname
FROM clients, salesman, products, saletto, orders
WHERE clients.cno = orders.cno AND salesman.sno = orders.sno AND saletto.cno = orders.cno AND saletto.pno = products.pno
```

Output

CNAME	SNAME	PNAME
raph	merchantB	Television
jason	merchantA	Television
nathon	merchantA	slipper

5) Display the names of clients who bought 'Television' in the format "jason buys Television from merchantA with down payment \$ 2000"

```
select cname || ' buys ' || pname || ' from ' || sname || ' with down payment $ ' || billedpay AS selling_details
from clients, products, saletto, salesman, orders
where pname = 'Television' AND saletto.pno = products.pno AND saletto.cno = clients.cno
| AND saletto.cno = orders.cno AND orders.sno = salesman.sno;
```

Output

SELLING_DETAILS
raph buys Television from merchantB with down payment \$ 100
jason buys Television from merchantA with down payment \$ 2000
