CREATE TABLE :

```
SQL> create table brands( 2 bid number(5),
3 bname varchar(20)
4 );

Table created.

SQL> alter table brands 2 add primary
key(bid); Table altered. SQL> create table inv_user(
user_id varchar(20),
name varchar(20),
password varchar(20),
last_login timestamp,
user_type varchar(10) 7    );

Table created.

SQL> create table categories( 2 cid number(5),
3 category_name varchar(20)
4 );

Table created.

SQL> alter table categories 2 add primary
key(cid); Table altered.
SQL> alter table inv_user
2 add primary key(user_id);

Table altered.

SQL> create table product(
pid number(5) primary key,
cid number(5) references categories(cid), 4 bid number(5) references brands(bid),
sid number(5),
pname varchar(20),
p_stock number(5),
price number(5),
added_date date); Table created.
SQL> create table stores( 2 sid number(5),
sname varchar(20),
address varchar(20),
mobno number(10)
6 );
```

Table created.

```
SQL> alter table stores
2 add primary key(sid);
```

Table altered.

```
SQL> alter table product
2 add foreign key(sid)references stores(sid); Table altered.
SQL> create table provides(
2 bid number(5)references brands(bid), 3 sid number(5)references stores(sid), 4 discount
number(5));
```

Table created.

```
SQL> create table customer_cart( 2 cust_id number(5) primary key, 3 name varchar(20),
4 mobno number(10)
5 );
```

Table created.

```
SQL> create table select_product(
cust_id number(5) references customer_cart(cust_id),
pid number(5)references product(pid), 4 quantity number(4)
5 );
```

Table created.

```
SQL> create table transaction( 2 id number(5) primary key, 3 total_amount number(5),
paid number(5),
due number(5),
gst number(3),
discount number(5),
payment_method varchar(10),
cart_id number(5) references customer_cart(cust_id) 10 );
```

Table created.

```
SQL> create table invoice( 2 item_no number(5),
product_name varchar(20),
quantity number(5),
net_price number(5),
```

transaction_id number(5)references transaction(id) 7 );

INSERTION:

INSERT INTO BRANDS:
SQL> insert into brands values( 2 'bid'
3 ,
4 'bname');
Enter value for bid: 1 old 2: ' bid'
new 2: '1'
Enter value for bname: Apple old 4: ' bname')

new 4: 'Apple')

1 row created.
1 row created.

SQL> insert into brands values(2,'Samsung'); 1 row created.
SQL> insert into brands values(3,'Nike'); 1 row created.
SQL> insert into brands values(4,'Fortune'); 1 row created.
INSERT INTO INV_USER:

SQL> insert into inv_user values( 2 ' user_id',
' name',
' password',
' last_login',
' user_type');
Enter value for user_id: vidit@gmail.com old 2: ' user_id',
new 2: 'vidit@gmail.com', Enter value for name: vidit old 3: ' name',
new 3: 'vidit',
Enter value for password: 1234 old 4: ' password',
new 4: '1234',
Enter value for last_login: 31-oct-18 12:40 old 5: ' last_login',
new 5: '31-oct-18 12:40',
Enter value for user_type: admin old 6: ' user_type')
new 6: 'admin')

1 row created.

SQL> insert into inv_user values('harsh@gmail.com','Harsh Khanelwal','1111','30-oct- 18
10:20','Manager');

1 row created.

SQL> insert into inv_user values('prashant@gmail.com','Prashant','0011','29-oct-18
10:20','Accountant');

1 row created.

INSERT INTO CATEGORIES:

SQL> insert into categories values( 2 ' cid',
3 ' category_name'); Enter value for cid: 1 old 2: ' cid',
new 2: '1',
Enter value for category_name: Electroincs old 3: ' category_name')
new 3: 'Electroincs')

1 row created.

SQL> insert into categories values(2,'Clothing'); 1 row created.
SQL> insert into categories values(3,'Grocey'); 1 row created.
INSERT INTO STORE
SQL> insert into stores values( 2 ' sid',
' sname',
' address',
' mobno'); Enter value for sid:
1 old 2: ' sid',
new 2: '1',
Enter value for sname: Ram kumar old 3: ' sname',
new 3: 'Ram kumar',
Enter value for address: Katpadi vellore old 4: ' address',
new 4: 'Katpadi vellore',
Enter value for mobno: 9999999999 old 5: ' mobno')

new 5: '9999999999')

1 row created.

SQL> insert into stores values(2,'Rakesh kumar','chennai',8888555541);

1 row created.

SQL> insert into stores values(3,'Suraj','Haryana',7777555541); 1 row created.
INSERT INTO PRODUCT:

SQL> insert into product values( 2 ' pid',

3 ' cid',
4 ' bid',
5 ' sid',
' pname',
' p_stock',
' price',
' added_date'); Enter value for pid: 1 old 2: ' pid',
new 2: '1',
Enter value for cid: 1 old 3: ' cid',
new 3: '1',
Enter value for bid: 1 old 4: ' bid',
new 4: '1',
Enter value for sid: 1 old 5: ' sid',
new 5: '1',
Enter value for pname: IPHONE old 6: ' pname',
new 6: 'IPHONE',
Enter value for p_stock: 4 old 7: ' p_stock',
new 7: '4',
Enter value for price: 45000 old 8: ' price',
new 8: '45000',
Enter value for added_date: 31-oct-18 old 9: ' added_date')

new 9: '31-oct-18')

1 row created.

SQL> insert into product values(2,1,1,1,'Airpods',3,19000,'27-oct- 18'); 1 row created.
SQL> insert into product values(3,1,1,1,'Smart Watch',3,19000,'27-oct-18'); 1 row created.
SQL> insert into product values(4,2,3,2,'Air Max',6,7000,'27-oct-18'); 1 row created.
SQL> insert into product values(5,3,4,3,'REFINED OIL',6,750,'25-oct-18'); 1 row created.
INSERT INTO PROVIDES:

SQL> insert into provides values(1,1,12); 1 row created.
SQL> insert into provides values(2,2,7); 1 row created.
SQL> insert into provides values(3,3,15); 1 row created.
SQL> insert into provides values(1,2,7);

1 row created.
SQL> insert into provides values(4,2,19); 1 row created.
SQL> insert into provides values(4,3,20); 1 row created.
INSERT INTO CUSTOMER_CART:

SQL> insert into customer_cart values( 2 ' cust_id',

' name',
' mobno');
Enter value for cust_id: 1 old 2: ' cust_id',
new 2: '1',
Enter value for name: Ram old 3: ' name',
new 3: 'Ram',
Enter value for mobno: 9876543210 old 4: ' mobno')
new 4: '9876543210')

1 row created.

SQL> insert into customer_cart values(2,'Shyam',7777777777); 1 row created.
SQL> insert into customer_cart values(3,'Mohan',7777777775);

1 row created.

INSERT INTO SELECT_PRODUCT:

SQL> insert into select_product values( 2 ' cust_id',
3 ' pid',
4 ' quantity');
Enter value for cust_id: 1 old 2: ' cust_id',
new 2: '1',
Enter value for pid: 2 old 3: ' pid',
new 3: '2',
Enter value for quantity: 2 old 4: ' quantity')
new 4: '2')

1 row created.

SQL> insert into select_product values(1,3,1); 1 row created.

SQL> insert into select_product values(2,3,3); 1 row created.
SQL> insert into select_product values(3,2,1); 1 row created.
INSERT INTO TRANSACTIONS:

SQL> insert into transaction values( 2 ' id',
' total_amount',
' paid',
5 ' due',
6 ' gst',
' discount',
' payment_method',

' cart_id'); Enter value for id: 1 old 2: ' id',
new 2: '1',
Enter value for total_amount: 57000 old 3: ' total_amount',
new 3: '25000',
Enter value for paid: 2000 old 4: ' paid',
new 4: '20000',
Enter value for due: 5000 old 5: ' due',
new 5: '5000',
Enter value for gst: 350 old 6: ' gst',
new 6: '350',
Enter value for discount: 350 old 7: ' discount',
new 7: '350',
Enter value for payment_method: card old 8: ' payment_method',
new 8: 'card',
Enter value for cart_id: 1 old 9: ' cart_id')
new 9: '1')

1 row created.

insert into transaction values(2,57000,57000,0,570,570,'cash',2);

SQL> insert into transaction values(3,19000,17000,2000,190,190,'cash',3);

1 row created. SQL> insert into transaction values(3,19000,17000,2000,190,190,'cash',3);

1 row created.

PL/SQL

Functions:

```
SQL> declare
due1 number(7);
cart_id1 number(7);
function get_cart(c_id number)return number is 5 begin
return (c_id);
end;
begin
cart_id1:=get_cart(' c_id');
select due into due1 from transaction where cart_id=cart_id1;
dbms_output.put_line(due1);
end; 13    /
```

```
Enter value for c_id: 1
old 9: cart_id1:=get_cart(' c_id');
new 9: cart_id1:=get_cart('1');
5000

PL/SQL procedure successfully completed.
```

Cursors:

```
SQL> DECLARE
p_id product.pid%type;
p_name product.pname%type;

p_stock product.p_stock%type; 5 cursor p_product is
6 select pid,pname ,p_stock from product; 7 begin
open p_product;
loop
fetch p_product into p_id,p_name,p_stock;
exit when p_product%notfound;
dbms_output.put_line(p_id||' '||p_name||' '||p_stock);
end loop;
close p_product;
end; 16 /
IPHONE 4
Airpods 3
Smart Watch 3
Air Max 6
REFINED OIL 6

PL/SQL procedure successfully completed.
```

Procedure:

```
SQL> DECLARE
a number;
b number;
PROCEDURE check_stock(x IN number) IS 5 BEGIN
IF x < 2 THEN
dbms_output.put_line('Stock is Less');
ELSE
dbms_output.put_line('Enough Stock'); 10 END IF;
END;
BEGIN
```

```
13    b:=' b';
14 select p_stock into a from product where pid=b; 15 check_stock(a);
16 END;

17 /
Enter value for b: 2 old 13:    b:=' b';
new 13:    b:='2'; Enough Stock
```