# SQL CODE IMPLEMENTATION:

## 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(
  2     user_id varchar(20),
  3     name varchar(20),
  4     password varchar(20),
  5     last_login timestamp,
  6     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(
  2  pid number(5) primary key,
  3  cid number(5) references categories(cid),
  4  bid number(5) references brands(bid),
  5  sid number(5),
  6  pname varchar(20),
  7  p_stock number(5),
  8  price number(5),
  9  added_date date);

Table created.

SQL> create table stores(
  2  sid number(5),
  3  sname varchar(20),
  4  address varchar(20),
  5  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(
  2  cust_id number(5) references customer_cart(cust_id),
  3  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),
  4  paid number(5),
  5  due number(5),
  6  gst number(3),
  7  discount number(5),
  8  payment_method varchar(10),
  9  cart_id number(5) references customer_cart(cust_id)
 10 );

Table created.


SQL> create table invoice(
  2  item_no number(5),
  3  product_name varchar(20),
  4  quantity number(5),
  5  net_price number(5),
  6  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',
  3  '&name',
  4  '&password',
  5  '&last_login',
  6  '&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',
  3  '&sname',
  4  '&address',
  5  '&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',
  6  '&pname',
  7  '&p_stock',
  8  '&price',
  9  '&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',
  3  '&name',
  4  '&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',
  3  '&total_amount',
  4  '&paid',
  5  '&due',
  6  '&gst',
  7  '&discount',
  8  '&payment_method',
  9  '&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
  2  due1 number(7);
  3  cart_id1 number(7);
  4  function get_cart(c_id number)return number is
  5  begin
  6  return (c_id);
  7  end;
  8  begin
  9  cart_id1:=get_cart('&c_id');
 10  select due into due1 from transaction where cart_id=cart_id1;
 11  dbms_output.put_line(due1);
 12  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
  2  p_id product.pid%type;
  3  p_name product.pname%type;
```

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

PL/SQL procedure successfully completed.
```

**Procedure:**

```
SQL> DECLARE
  2     a number;
  3     b number;
  4  PROCEDURE check_stock(x IN number) IS
  5  BEGIN
  6     IF x < 2 THEN
  7        dbms_output.put_line('Stock is Less');
  8     ELSE
  9        dbms_output.put_line('Enough
 Stock'); 10 END IF;
 11 END;
 12 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

PL/SQL procedure successfully completed.
```