

## **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.