INVENTORY MANAGEMENT SYSTEM.(ADVANCE –LEVEL)

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-oct18 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.