

### To open the database:

mysql> use <your name>;

### **5. Create the following tables by identifying primary and foreign keys, specify the not null property for mandatory keys.**

#### **SALES ORDER**

**COLUMNNAME DATATYPE SIZE CONSTRAINT**

*Order\_No* char 6 Primary key First character must be 'O', *Order\_Date* Date, *Clientname* Varchar 25, *Dely\_Type* Char 1 Part (P) / Full (F), Default 'F', *Dely\_Date* Date Cannot be less than Order Date

#### **SALES\_ORDER\_DETAILS**

*Order\_No* char 6 Part of the Primary key; Foreign key - References Order\_No of Sales\_Order table, *Product\_No* char 6 Part of the Primary key; Foreign key - References Product\_No of Product\_Master table, *Qty\_Ordered* int 8, *Qty\_Supplied* int 8, *Product\_Rate* decimal 10, 2

#### **PRODUCT MASTER**

*Product\_No* char 6 Primary key First character must be 'P', *Description* Varchar 20 Not null, *Qty\_On\_Hand* int 8 Not Null, *Cost\_Price* decimal 8, 2 Cannot be 0, *Sell\_Price* decimal 8, 2 Cannot be 0

### **To create salesorder table:**

```
create table salesorder
(order_no char(6) primary key check(order_no like 'O%'),
order_date date,
clientname varchar(25),
dely_type char(1) default 'F',
dely_date date,
check(dely_type in("P","F")),
constraint dely_date check(dely_date>order_date));
```

```
mysql> insert into salesorder(order_no,order_date,clientname,dely_type,dely_date)
-> values('O0001','2021-01-20','Ivan_Bayross','F','2021-12-27');
```

### **Similarly insert 04 records.**

### **To create product\_master table:**

```
create table product_master
(product_no char(6) primary key check(product_no like 'P%'),
description varchar(20) not null,
qty_on_hand int(8) not null,
cost_price decimal(8,2),
sell_price decimal(8,2),
check(cost_price>0),
constraint sell_price check(sell_price>0));
```

```
mysql> insert into product_master(product_no,description,qty_on_hand,cost_price,sell_price)
-> values('P0001','Pendrive',11,500,425);
```

**Similarly insert 04 records.**

**To create sales\_order\_details table:**

```
create table sales_order_details
(order_no char(6),
product_no char(6),
qtyordered int(8),
qtysupplied int(8),
productrate decimal(10,2),
foreign key(order_no) references salesorder(order_no),
foreign key(product_no) references product_master(product_no));
```

```
mysql> insert into sales_order_details(order_no,product_no,qtyordered,qtysupplied,productrate)
-> values('O0001','P0001',24,19,225.60);
```

**Similarly insert 04 records.**

**Write the following SQL queries:**

**a) Display the order\_date in the format 'DD-Month-YY'.**

```
mysql> select date_format(order_date,'%d %M %Y') "order date" from salesorder;
```

**b) Print the information from sales\_order table for orders placed in the month of 'January'.**

```
mysql> select * from salesorder where date_format(order_date,'%M')='January';
```

**c) Find the product whose selling\_price is greater than 2000 and less than or equal to 5000.**

```
mysql> select product_no from product_master where sell_price>2000 and sell_price<=5000;
```

**d) Find the product\_no and description of non-moving products i.e., products not being sold.**

```
mysql> select product_no,description from product_master where product_no not in(select
product_no from sales_order_details);
```

**e) Find the products and their quantities for the orders placed by client 'Ivan Bayross'.**

```
mysql> select a.product_no,a.qtyordered,b.description from sales_order_details a,product_master
b,salesorder c where b.product_no=a.product_no and c.order_no=a.order_no and c.clientname='Ivan
bayross';
```