# Weekly Assignment-1 (31-12-2025)

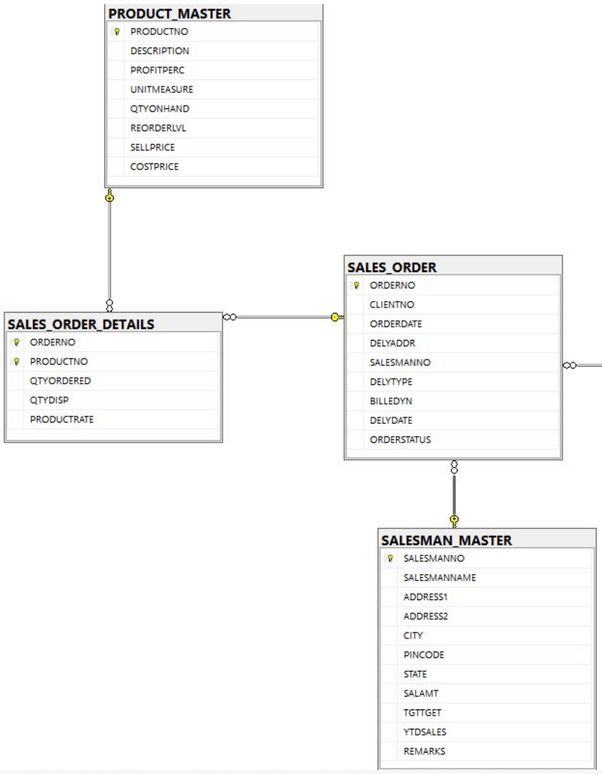
1. Create Database Commands

```
create database ordermanagementDB;
use ordermanagementDB;
```

2. Create Table Commands

```
CREATE TABLE CLIENT_MASTER (
   CLIENTNO  VARCHAR(6) PRIMARY KEY CHECK (CLIENTNO LIKE 'C%'),
   NAME      VARCHAR(20) NOT NULL,
   ADDRESS1  VARCHAR(30),
   ADDRESS2  VARCHAR(30),
   CITY      VARCHAR(15),
   PINCODE   VARCHAR(8),
   STATE     VARCHAR(15),
   BALDUE    DECIMAL(10,2)
);
CREATE TABLE PRODUCT_MASTER (
   PRODUCTNO    VARCHAR(6) PRIMARY KEY CHECK (PRODUCTNO LIKE 'P%'),
   DESCRIPTION  VARCHAR(15) NOT NULL,
   PROFITPERC   DECIMAL(4,2) NOT NULL,
   UNITMEASURE  VARCHAR(10) NOT NULL,
   QTYONHAND    INT NOT NULL,
   REORDERLVL   INT NOT NULL,
   SELLPRICE    DECIMAL(8,2) NOT NULL CHECK (SELLPRICE <> 0),
   COSTPRICE    DECIMAL(8,2) NOT NULL CHECK (COSTPRICE <> 0)
);
CREATE TABLE SALESMAN_MASTER (
   SALESMANNO    VARCHAR(6) PRIMARY KEY CHECK (SALESMANNO LIKE 'S%'),
   SALESMANNAME  VARCHAR(20) NOT NULL,
   ADDRESS1      VARCHAR(30) NOT NULL,
   ADDRESS2      VARCHAR(30),
   CITY          VARCHAR(20),
   PINCODE       VARCHAR(8),
   STATE         VARCHAR(20),
   SALAMT        DECIMAL(8,2) NOT NULL CHECK (SALAMT <> 0),
   TGTTGET       DECIMAL(6,2) NOT NULL,
   YTDSALES      DECIMAL(6,2) NOT NULL,
   REMARKS    VARCHAR(60)
);
CREATE TABLE SALES_ORDER (
   ORDERNO    VARCHAR(6) PRIMARY KEY CHECK (ORDERNO LIKE 'O%'),
   CLIENTNO   VARCHAR(6),
   ORDERDATE  DATE,
   DELYADDR   VARCHAR(25),
   SALESMANNO  VARCHAR(6),
   DELYTYPE   CHAR(1) CHECK (DELYTYPE IN ('P', 'F')),
   BILLEDYN   CHAR(1) CHECK (BILLEDYN IN ('Y', 'N')),
   DELYDATE   DATE,
   ORDERSTATUS  VARCHAR(10) CHECK (ORDERSTATUS IN
           ('In Process', 'Fulfilled', 'Backorder', 'Cancelled')),
   CONSTRAINT FK_SO_CLIENT
     FOREIGN KEY (CLIENTNO)
     REFERENCES CLIENT_MASTER(CLIENTNO),
   CONSTRAINT FK_SO_SALESMAN
     FOREIGN KEY (SALESMANNO)
     REFERENCES SALESMAN_MASTER(SALESMANNO)
);
CREATE TABLE SALES_ORDER_DETAILS (
   ORDERNO      VARCHAR(6),
   PRODUCTNO    VARCHAR(6),
   QTYORDERED   INT,
   QTYDISP      INT,
   PRODUCTRATE  DECIMAL(10,2),
   CONSTRAINT PK_SALES_ORDER_DETAILS
     PRIMARY KEY (ORDERNO, PRODUCTNO),
   CONSTRAINT FK_SOD_ORDER
     FOREIGN KEY (ORDERNO)
     REFERENCES SALES_ORDER(ORDERNO),
   CONSTRAINT FK_SOD_PRODUCT
     FOREIGN KEY (PRODUCTNO)
     REFERENCES PRODUCT_MASTER(PRODUCTNO)
);
```

## 3. Schema Diagram



## 4. Insert Data Commands

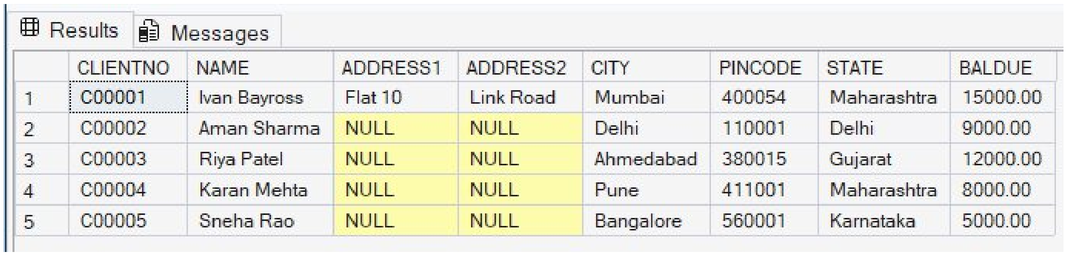
```
INSERT INTO CLIENT_MASTER
(CLIENTNO, NAME, ADDRESS1, ADDRESS2, CITY, PINCODE, STATE, BALDUE)
VALUES
('C00001','Ivan Bayross','Flat 10','Link Road','Mumbai','400054','Maharashtra',15000),
('C00002','Aman Sharma',NULL,NULL,'Delhi','110001','Delhi',9000),
('C00003','Riya Patel',NULL,NULL,'Ahmedabad','380015','Gujarat',12000),
('C00004','Karan Mehta',NULL,NULL,'Pune','411001','Maharashtra',8000),
('C00005','Sneha Rao',NULL,NULL,'Bangalore','560001','Karnataka',5000);

INSERT INTO PRODUCT_MASTER
(PRODUCTNO, DESCRIPTION, PROFITPERC, UNITMEASURE, QTYONHAND, REORDERLVL,
SELLPRICE, COSTPRICE)
VALUES
('P00001','T-Shirts',5,'Piece',200,50,2500,2000),
('P00002','Trousers',8,'Piece',150,30,3000,2200),
('P00003','Pull Overs',10,'Piece',100,20,1800,1500),
('P00004','Jeans',12,'Piece',80,25,4500,3500),
('P00005','1.44 drive',15,'Piece',60,10,1000,800);
```

```
INSERT INTO SALESMAN_MASTER
(SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, STATE, SALAMT,
TGTTGET, YTDSALES, REMARKS)
VALUES
('S00001','Aman','A/14','Worli','Mumbai','400002','Maharashtra',3000,100,50,'Good'),
('S00002','Rahul','B/21','Andheri','Mumbai','400053','Maharashtra',4000,150,120,'Excellent'),
('S00003','Neha','C/11','MG Road','Bangalore','560001','Karnataka',3500,120,90,'Average');

INSERT INTO SALES_ORDER
(ORDERNO, CLIENTNO, ORDERDATE, DELYADDR, SALESMANNO, DELYTYPE, BILLEDYN,
DELYDATE, ORDERSTATUS)
VALUES
('O19001','C00001','2002-07-20','Mumbai','S00001','F','N','2002-07-25','In Process'),
('O19002','C00002','2002-05-15','Delhi','S00002','P','Y','2002-05-20','Fulfilled'),
('O19003','C00003','2002-05-10','Ahmedabad','S00001','F','N','2002-05-18','Backorder'),
('O19004','C00004','2002-08-05','Pune','S00003','P','N','2002-08-12','In Process');

INSERT INTO SALES_ORDER_DETAILS
(ORDERNO, PRODUCTNO, QTYORDERED, QTYDISP, PRODUCTRATE)
VALUES
('O19001','P00001',4,4,525),
('O19001','P00003',2,2,1800),
('O19002','P00002',3,3,3000),
('O19002','P00001',5,5,2500),
('O19003','P00004',6,4,4500),
('O19004','P00003',4,2,1800);
```

5. Answer following queries with the help of above schema

   a. Display the names of all the clients.

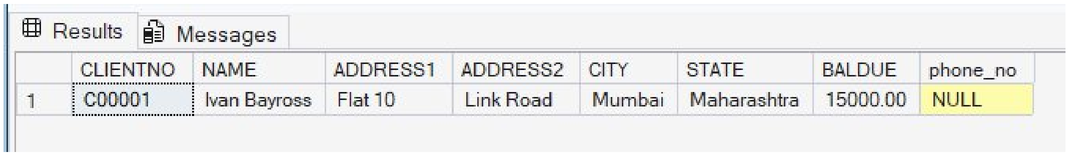
   ```
   select * from client_master;
   ```



| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | PINCODE | STATE | BALDUE |
|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | 400054 | Maharashtra | 15000.00 |
| 2 | C00002 | Aman Sharma | NULL | NULL | Delhi | 110001 | Delhi | 9000.00 |
| 3 | C00003 | Riya Patel | NULL | NULL | Ahmedabad | 380015 | Gujarat | 12000.00 |
| 4 | C00004 | Karan Mehta | NULL | NULL | Pune | 411001 | Maharashtra | 8000.00 |
| 5 | C00005 | Sneha Rao | NULL | NULL | Bangalore | 560001 | Karnataka | 5000.00 |

b. Display all the clients who are located in Mumbai.

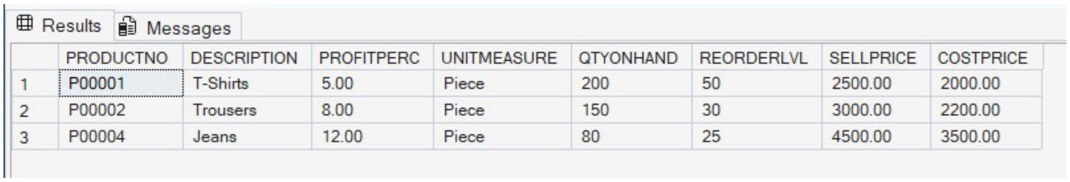
```
select * from client_master where city='Mumbai';
```



| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | STATE | BALDUE | phone_no |
|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | Maharashtra | 15000.00 | NULL |

c. Display all the products whose selling price is greater than 2000 and less than 5000.

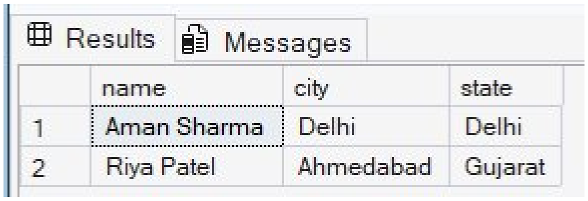
```
select * from product_master where sellprice between 2000 and 5000;
```



| | PRODUCTNO | DESCRIPTION | PROFITPERC | UNITMEASURE | QTYONHAND | REORDERLVL | SELLPRICE | COSTPRICE |
|---|---|---|---|---|---|---|---|---|
| 1 | P00001 | T-Shirts | 5.00 | Piece | 200 | 50 | 2500.00 | 2000.00 |
| 2 | P00002 | Trousers | 8.00 | Piece | 150 | 30 | 3000.00 | 2200.00 |
| 3 | P00004 | Jeans | 12.00 | Piece | 80 | 25 | 4500.00 | 3500.00 |

d. Display the name, city, and state of clients not in the state of Maharashtra.

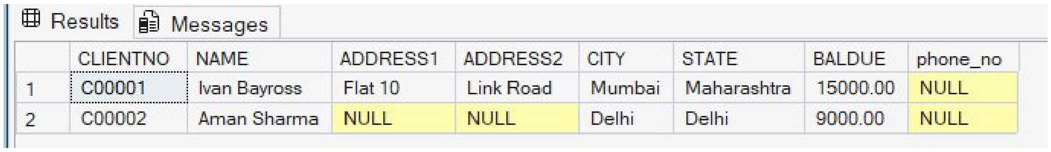
```
select name,city,state from client_master where state != 'Maharashtra';
```



| | name | city | state |
|---|---|---|---|
| 1 | Aman Sharma | Delhi | Delhi |
| 2 | Riya Patel | Ahmedabad | Gujarat |

e. Display all the information of client_no **C0001** and **C0002**.

```
select * from client_master where CLIENTno='C00001' or CLIENTNO='C00002';
```

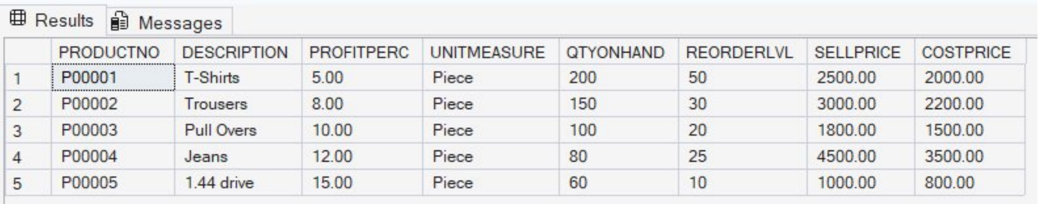


| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | STATE | BALDUE | phone_no |
|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | Maharashtra | 15000.00 | NULL |
| 2 | C00002 | Aman Sharma | NULL | NULL | Delhi | Delhi | 9000.00 | NULL |

f. Change the selling price of **'1.44 drive'** to **Rs. 1150.50**.

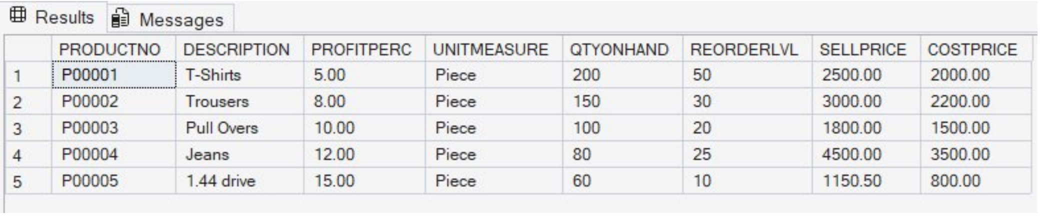
```
update product_master
set sellprice=1150.50 where description='1.44 drive';
```

Before



| | PRODUCTNO | DESCRIPTION | PROFITPERC | UNITMEASURE | QTYONHAND | REORDERLVL | SELLPRICE | COSTPRICE |
|---|---|---|---|---|---|---|---|---|
| 1 | P00001 | T-Shirts | 5.00 | Piece | 200 | 50 | 2500.00 | 2000.00 |
| 2 | P00002 | Trousers | 8.00 | Piece | 150 | 30 | 3000.00 | 2200.00 |
| 3 | P00003 | Pull Overs | 10.00 | Piece | 100 | 20 | 1800.00 | 1500.00 |
| 4 | P00004 | Jeans | 12.00 | Piece | 80 | 25 | 4500.00 | 3500.00 |
| 5 | P00005 | 1.44 drive | 15.00 | Piece | 60 | 10 | 1000.00 | 800.00 |

After

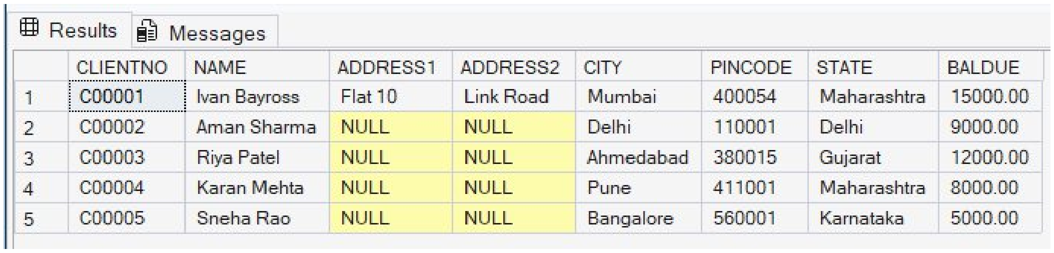


| | PRODUCTNO | DESCRIPTION | PROFITPERC | UNITMEASURE | QTYONHAND | REORDERLVL | SELLPRICE | COSTPRICE |
|---|---|---|---|---|---|---|---|---|
| 1 | P00001 | T-Shirts | 5.00 | Piece | 200 | 50 | 2500.00 | 2000.00 |
| 2 | P00002 | Trousers | 8.00 | Piece | 150 | 30 | 3000.00 | 2200.00 |
| 3 | P00003 | Pull Overs | 10.00 | Piece | 100 | 20 | 1800.00 | 1500.00 |
| 4 | P00004 | Jeans | 12.00 | Piece | 80 | 25 | 4500.00 | 3500.00 |
| 5 | P00005 | 1.44 drive | 15.00 | Piece | 60 | 10 | 1150.50 | 800.00 |

g. Delete the record of **client_no C00005**.

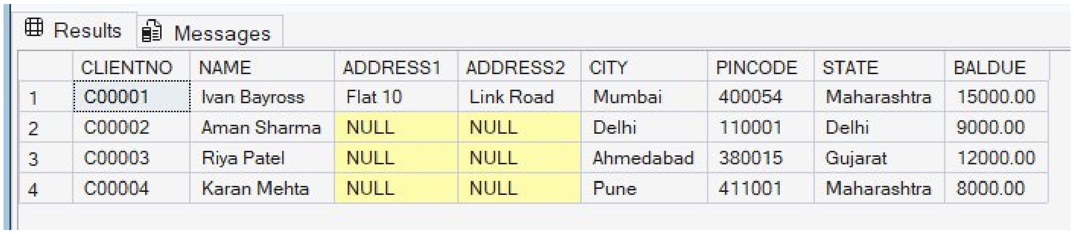
```
delete from client_master
where clientno='C00005';
```

Before



| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | PINCODE | STATE | BALDUE |
|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | 400054 | Maharashtra | 15000.00 |
| 2 | C00002 | Aman Sharma | NULL | NULL | Delhi | 110001 | Delhi | 9000.00 |
| 3 | C00003 | Riya Patel | NULL | NULL | Ahmedabad | 380015 | Gujarat | 12000.00 |
| 4 | C00004 | Karan Mehta | NULL | NULL | Pune | 411001 | Maharashtra | 8000.00 |
| 5 | C00005 | Sneha Rao | NULL | NULL | Bangalore | 560001 | Karnataka | 5000.00 |

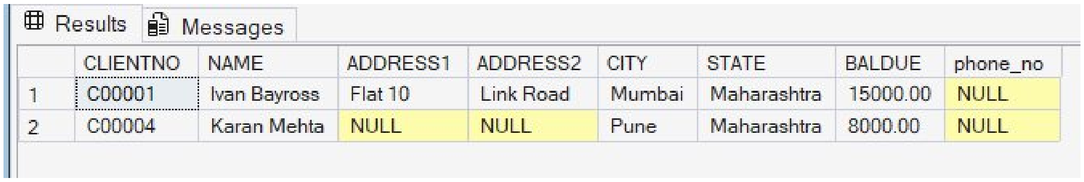
After



| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | PINCODE | STATE | BALDUE |
|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | 400054 | Maharashtra | 15000.00 |
| 2 | C00002 | Aman Sharma | NULL | NULL | Delhi | 110001 | Delhi | 9000.00 |
| 3 | C00003 | Riya Patel | NULL | NULL | Ahmedabad | 380015 | Gujarat | 12000.00 |
| 4 | C00004 | Karan Mehta | NULL | NULL | Pune | 411001 | Maharashtra | 8000.00 |

h. Display the clients who stay in a city whose second letter is **'a'**.

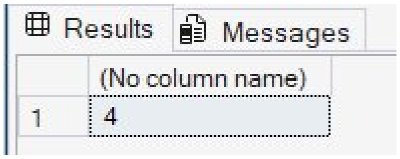
```
select * from client_master
where state like '_a%';
```



| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | STATE | BALDUE | phone_no |
|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | Maharashtra | 15000.00 | NULL |
| 2 | C00004 | Karan Mehta | NULL | NULL | Pune | Maharashtra | 8000.00 | NULL |

i. Count the number of products having price greater than or equal to **1500**.

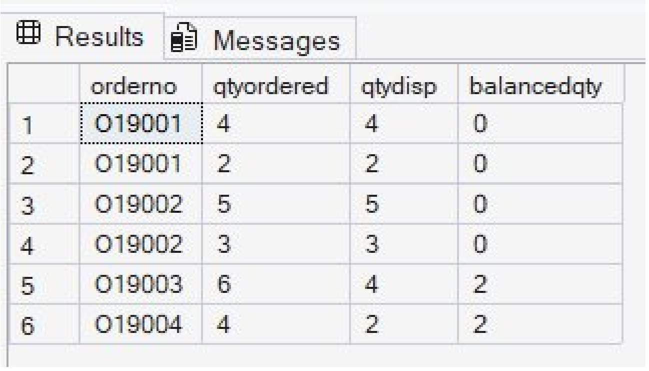
```
select count(*) from product_master where sellprice >= 1500;
```



| | (No column name) |
|---|---|
| 1 | 4 |

j. Display **qtyordered**, **qtydisp**, and **balancedqty** (not in table).

```
select orderno,qtyordered,qtydisp,qtyordered-qtydisp as balancedqty from
SALES_ORDER_DETAILS;
```

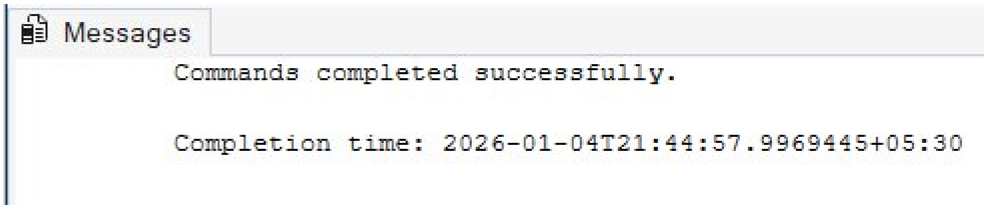


| | orderno | qtyordered | qtydisp | balancedqty |
|---|---|---|---|---|
| 1 | O19001 | 4 | 4 | 0 |
| 2 | O19001 | 2 | 2 | 0 |
| 3 | O19002 | 5 | 5 | 0 |
| 4 | O19002 | 3 | 3 | 0 |
| 5 | O19003 | 6 | 4 | 2 |
| 6 | O19004 | 4 | 2 | 2 |

6. Write Commands to do following

a. Make **Client_no** as primary key in **client_master**.

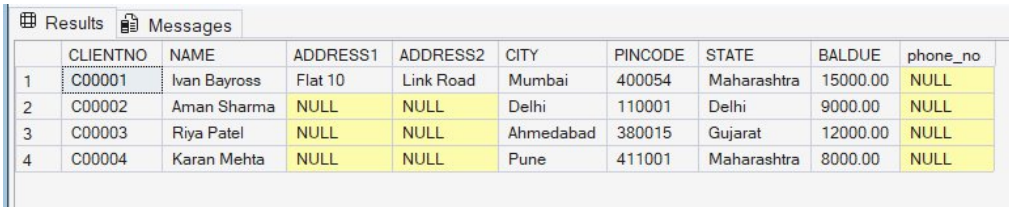
```
alter table client_master
add constraint pk_client_no primary key(clientno);
```



```
Commands completed successfully.

Completion time: 2026-01-04T21:44:57.9969445+05:30
```

b. Add a new column **phone_no** in the **client_master** table.

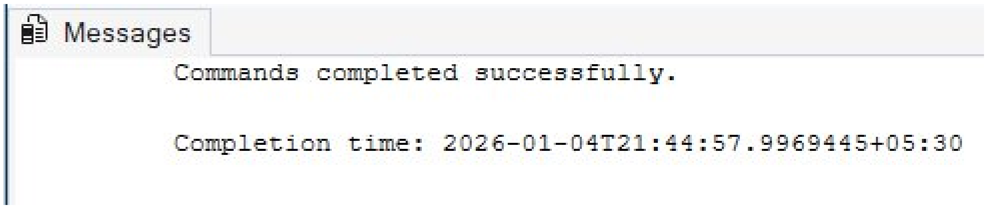
```
alter table client_master
add phone_no varchar(10);
```



| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | PINCODE | STATE | BALDUE | phone_no |
|---|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | 400054 | Maharashtra | 15000.00 | NULL |
| 2 | C00002 | Aman Sharma | NULL | NULL | Delhi | 110001 | Delhi | 9000.00 | NULL |
| 3 | C00003 | Riya Patel | NULL | NULL | Ahmedabad | 380015 | Gujarat | 12000.00 | NULL |
| 4 | C00004 | Karan Mehta | NULL | NULL | Pune | 411001 | Maharashtra | 8000.00 | NULL |

c. Add the **NOT NULL** constraint in the **product_master** table for the columns description, profit, percent, sell price, cost price

```
alter table product_master
alter column description varchar(15) not null;

alter table product_master
alter column PROFITPERC decimal(4,2) not null;

alter table product_master
alter column sellprice decimal(8,2) not null;

alter table product_master
alter column costprice decimal(8,2) not null;
```

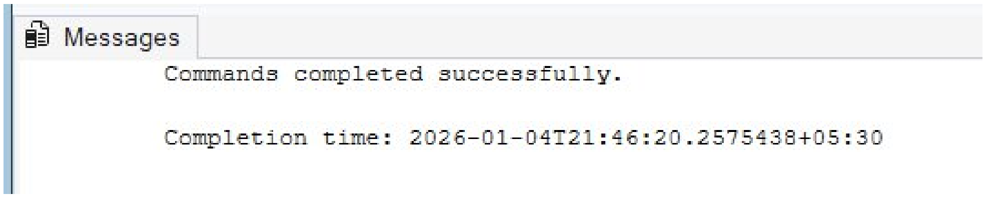


Messages

```
Commands completed successfully.

Completion time: 2026-01-04T21:44:57.9969445+05:30
```

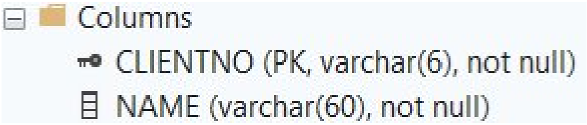
d. Change the size of the **name** column to **60** in the **client_master** table.

```
alter table client_master
alter column name varchar(60) not null;
```



Messages

```
Commands completed successfully.

Completion time: 2026-01-04T21:46:20.2575438+05:30
```



Columns

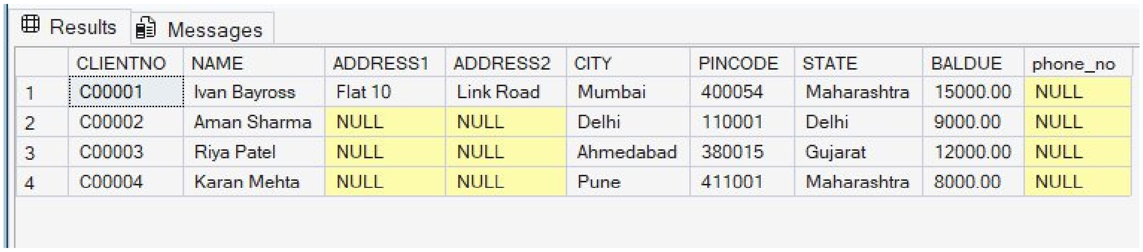
CLIENTNO (PK, varchar(6), not null)

NAME (varchar(60), not null)

e. Remove **pincode** column from the table.

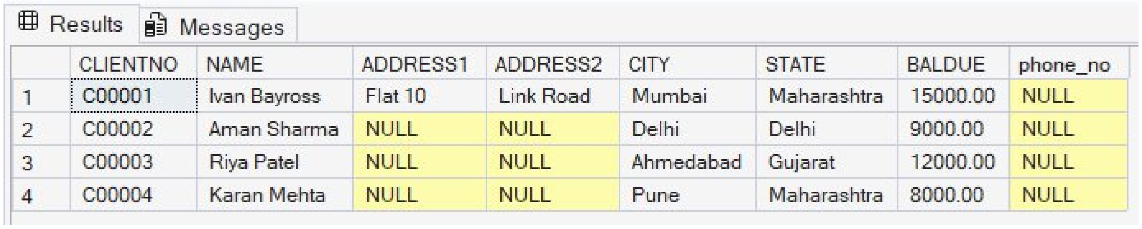
```
alter table client_master
drop column pincode;
```

Before



| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | PINCODE | STATE | BALDUE | phone_no |
|---|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | 400054 | Maharashtra | 15000.00 | NULL |
| 2 | C00002 | Aman Sharma | NULL | NULL | Delhi | 110001 | Delhi | 9000.00 | NULL |
| 3 | C00003 | Riya Patel | NULL | NULL | Ahmedabad | 380015 | Gujarat | 12000.00 | NULL |
| 4 | C00004 | Karan Mehta | NULL | NULL | Pune | 411001 | Maharashtra | 8000.00 | NULL |

After



| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | STATE | BALDUE | phone_no |
|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | Maharashtra | 15000.00 | NULL |
| 2 | C00002 | Aman Sharma | NULL | NULL | Delhi | Delhi | 9000.00 | NULL |
| 3 | C00003 | Riya Patel | NULL | NULL | Ahmedabad | Gujarat | 12000.00 | NULL |
| 4 | C00004 | Karan Mehta | NULL | NULL | Pune | Maharashtra | 8000.00 | NULL |

## 7. Define in 1 or 2 lines and give one example also [10]

a. Recursive Relationship.

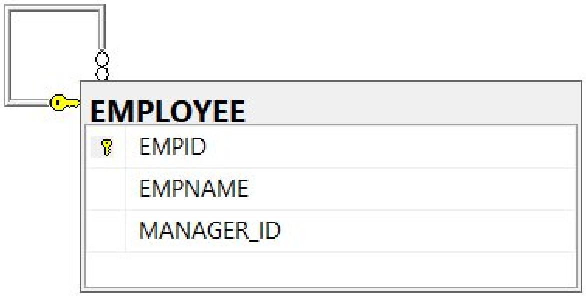
**Definition:**

A recursive relationship is a relationship in which a table is related to itself.

**Example**

An EMPLOYEE table where each employee has a manager_id that refers to another employee in the same table.

```
CREATE TABLE EMPLOYEE (
   EMPID INT PRIMARY KEY,
   EMPNAME VARCHAR(50),
   MANAGER_ID INT,
   FOREIGN KEY (MANAGER_ID) REFERENCES EMPLOYEE(EMPID)
         );
```



b. Composite Key.

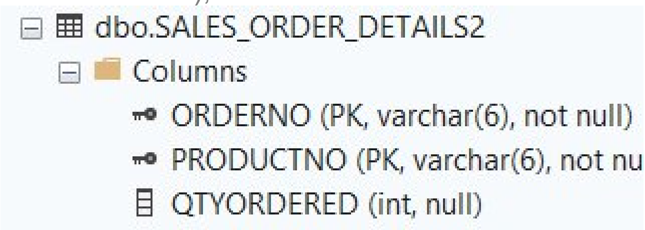
**Definition:**

A composite key is a primary key made up of two or more columns used together to uniquely identify a record.

**Example**

(ORDERNO, PRODUCTNO) together form the primary key in SALES_ORDER_DETAILS.

```
CREATE TABLE SALES_ORDER_DETAILS2 (
   ORDERNO VARCHAR(6),
   PRODUCTNO VARCHAR(6),
   QTYORDERED INT,
   PRIMARY KEY (ORDERNO, PRODUCTNO)
                  );
```



⊟ dbo.SALES_ORDER_DETAILS2
   ⊟ Columns
      ORDERNO (PK, varchar(6), not null)
      PRODUCTNO (PK, varchar(6), not nu
      QTYORDERED (int, null)

c. The **LIKE** operator with pattern matching.

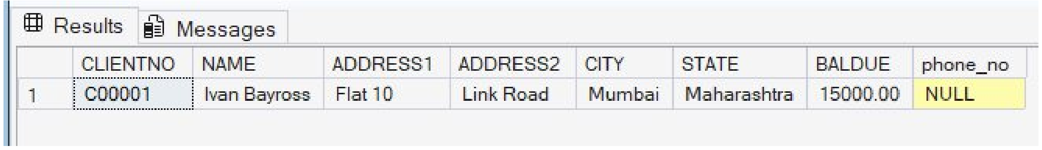
**Definition:**

The LIKE operator is used to search for a specified pattern in a column using wildcards.

**Example**

Displays cities starting with ‘M’

```
SELECT * FROM CLIENT_MASTER WHERE CITY LIKE 'M%';
```

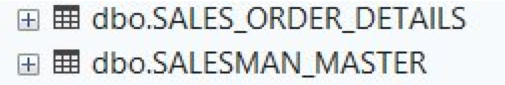


|   | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | STATE | BALDUE | phone_no |
|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | Maharashtra | 15000.00 | NULL |

d. DROP TABLE command.

**Definition:**
The DROP TABLE command is used to permanently remove a table and all its data from the database.
**Example:**

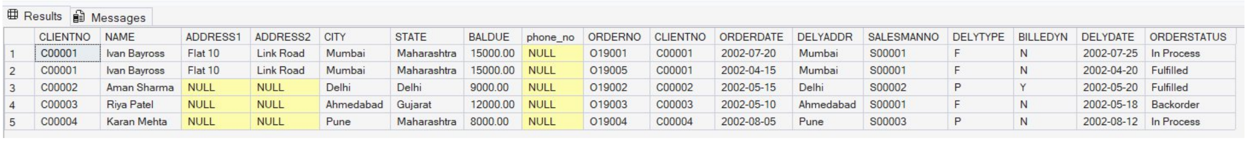
```
DROP TABLE SALES_ORDERS_DETAILS2;
```



```
⊞ dbo.SALES_ORDER_DETAILS
⊞ dbo.SALESMAN_MASTER
```

e. Full Outer Join.
**Definition:**
A FULL OUTER JOIN returns all records from both tables, matching rows where possible and showing NULL where no match exists.
**Example:**

```
SELECT *
FROM CLIENT_MASTER
FULL OUTER JOIN SALES_ORDER
ON CLIENT_MASTER.CLIENTNO = SALES_ORDER.CLIENTNO;
```

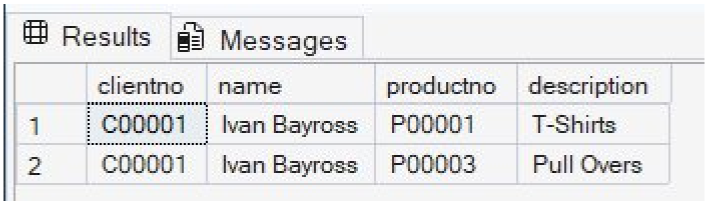


| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | STATE | BALDUE | phone_no | ORDERNO | CLIENTNO | ORDERDATE | DELYADDR | SALESMANNO | DELYTYPE | BILLEDYN | DELYDATE | ORDERSTATUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | Maharashtra | 15000.00 | NULL | O19001 | C00001 | 2002-07-20 | Mumbai | S00001 | F | N | 2002-07-25 | In Process |
| 2 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | Maharashtra | 15000.00 | NULL | O19005 | C00001 | 2002-04-15 | Mumbai | S00001 | F | N | 2002-04-20 | Fulfilled |
| 3 | C00002 | Aman Sharma | NULL | NULL | Delhi | Delhi | 9000.00 | NULL | O19002 | C00002 | 2002-05-15 | Delhi | S00002 | P | Y | 2002-05-20 | Fulfilled |
| 4 | C00003 | Riya Patel | NULL | NULL | Ahmedabad | Gujarat | 12000.00 | NULL | O19003 | C00003 | 2002-05-10 | Ahmedabad | S00001 | F | N | 2002-05-18 | Backorder |
| 5 | C00004 | Karan Mehta | NULL | NULL | Pune | Maharashtra | 8000.00 | NULL | O19004 | C00004 | 2002-08-05 | Pune | S00003 | P | N | 2002-08-12 | In Process |

## 8. Write queries for following descriptions (Joins)

a. Find out the products which have been sold to ‘Ivan Bayross’.

```
select cm.clientno,cm.name,pm.productno,pm.description from client_master cm
join sales_order so on
cm.clientno=so.clientno
join sales_order_details sod on
so.orderno=sod.orderno
join product_master pm on
sod.productno=pm.productno
where name='Ivan Bayross';
```

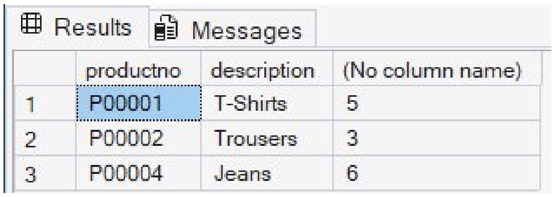


| | clientno | name | productno | description |
|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | P00001 | T-Shirts |
| 2 | C00001 | Ivan Bayross | P00003 | Pull Overs |

b. Finding out the products and their quantities that will have to be delivered in the **current month (May)**.

```
select sod.productno,pm.description,sum(sod.qtyordered) from sales_order so
join sales_order_details sod on
so.orderno=sod.orderno
join product_master pm on
```

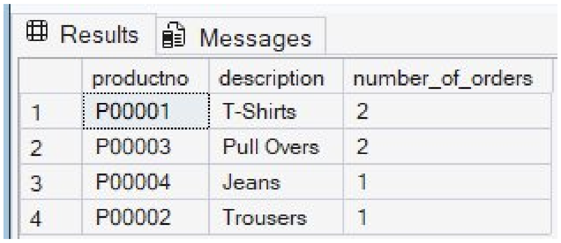
```
sod.productno=pm.productno
where month(so.delydate)=5
group by sod.productno,pm.description;
```



| | productno | description | (No column name) |
|---|---|---|---|
| 1 | P00001 | T-Shirts | 5 |
| 2 | P00002 | Trousers | 3 |
| 3 | P00004 | Jeans | 6 |

c. Listing the ProductNo and **description** of constantly sold (i.e. rapidly moving) products.

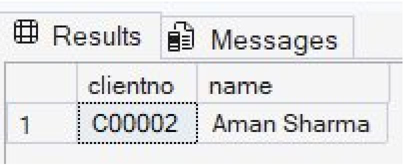
```
select sod.productno,pm.description,count(sod.orderno) as number_of_orders from
sales_order_details sod
join PRODUCT_MASTER pm on
sod.productno=pm.productno
group by sod.productno,pm.description
order by count(sod.orderno) desc;
```



| | productno | description | number_of_orders |
|---|---|---|---|
| 1 | P00001 | T-Shirts | 2 |
| 2 | P00003 | Pull Overs | 2 |
| 3 | P00004 | Jeans | 1 |
| 4 | P00002 | Trousers | 1 |

d. Finding the names of clients who have purchased **'Trousers'**.

```
select cm.clientno,cm.name from client_master cm
join sales_order so on
cm.clientno=so.clientno
join sales_order_details sod on
sod.orderno=so.orderno
join PRODUCT_MASTER pm on
sod.PRODUCTNO=pm.PRODUCTNO
where pm.description='Trousers';
```

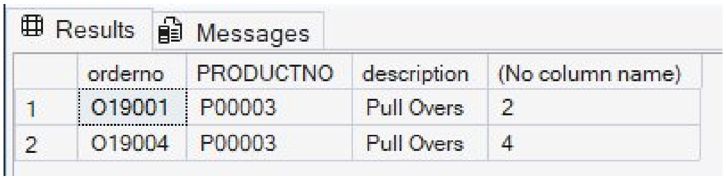


| | clientno | name |
|---|---|---|
| 1 | C00002 | Aman Sharma |

e. Listing the products and orders from customers who have ordered less than 5 units of 'Pull Overs'.

```
select so.orderno,pm.PRODUCTNO,pm.description,sum(sod.qtyordered) from client_master cm
join sales_order so on
so.clientno=cm.clientno
join sales_order_details sod on
so.orderno=sod.orderno
join PRODUCT_MASTER pm on
```

```
sod.productno=pm.PRODUCTNO
where pm.DESCRIPTION='Pull Overs'
group by so.orderno,pm.productno,pm.description
having sum(sod.qtyordered) < 5;
```

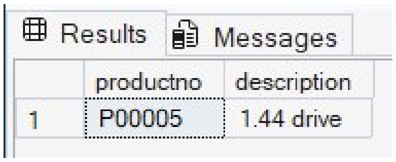


| | orderno | PRODUCTNO | description | (No column name) |
|---|---|---|---|---|
| 1 | O19001 | P00003 | Pull Overs | 2 |
| 2 | O19004 | P00003 | Pull Overs | 4 |

## 9. Write queries for following descriptions (Subqueries)

a. Finding the non-moving products, i.e. products not being sold.

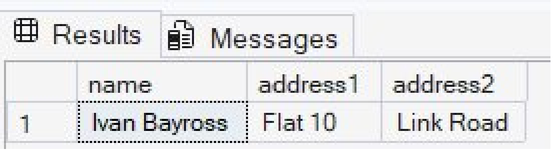
```
select productno,description from PRODUCT_MASTER
where PRODUCTNO not in
(select distinct productno from sales_order_details);
```



| | productno | description |
|---|---|---|
| 1 | P00005 | 1.44 drive |

b. Finding the name and complete address for the customer who has placed Order number ‘O19001’.

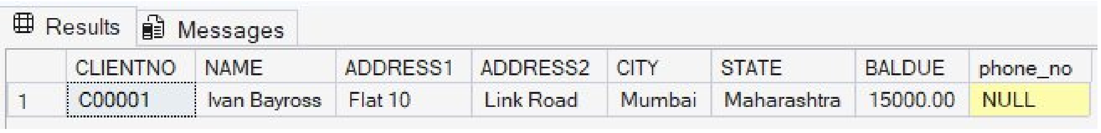
```
select name,address1,address2 from client_master
where clientno =
(select clientno from sales_order where orderno = 'O19001');
```



| | name | address1 | address2 |
|---|---|---|---|
| 1 | Ivan Bayross | Flat 10 | Link Road |

c. Finding the clients who have placed orders before the month of May’02.

```
select * from client_master where clientno in(
select clientno from sales_order where month(orderdate) < 5 and year(orderdate)=2002);
```

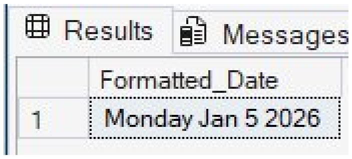


| | CLIENTNO | NAME | ADDRESS1 | ADDRESS2 | CITY | STATE | BALDUE | phone_no |
|---|---|---|---|---|---|---|---|---|
| 1 | C00001 | Ivan Bayross | Flat 10 | Link Road | Mumbai | Maharashtra | 15000.00 | NULL |

## 10. Write Commands to do following

a. Display system date as **Saturday, February 11, 2012**.

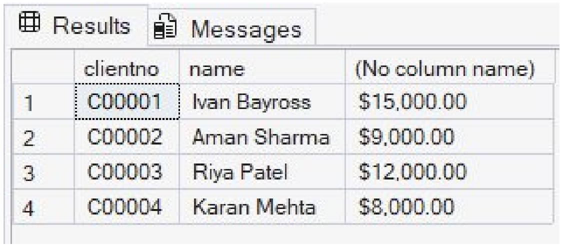
```
SELECT
   DATENAME(WEEKDAY, GETDATE()) + ' ' +
   LEFT(DATENAME(MONTH, GETDATE()), 3) + ' ' +
    CAST(DAY(GETDATE()) AS VARCHAR) + ' ' +
    CAST(YEAR(GETDATE()) AS VARCHAR) AS Formatted_Date;
```



|   | Formatted_Date |
|---|---|
| 1 | Monday Jan 5 2026 |

b. Display **Balance Due** from Client master as **$99,999.99**.

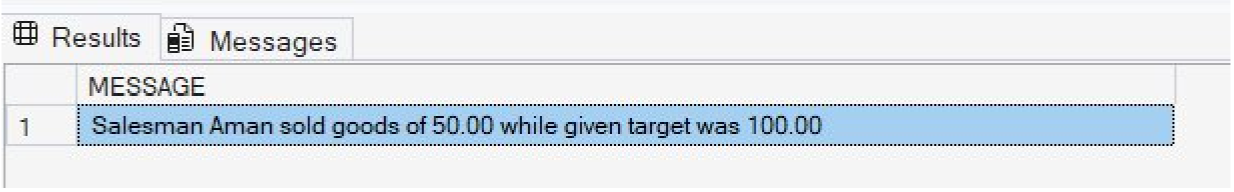
```
select clientno,name,'$'+ Format(BALDUE,'N2') from CLIENT_MASTER;
```



|   | clientno | name | (No column name) |
|---|---|---|---|
| 1 | C00001 | Ivan Bayross | $15,000.00 |
| 2 | C00002 | Aman Sharma | $9,000.00 |
| 3 | C00003 | Riya Patel | $12,000.00 |
| 4 | C00004 | Karan Mehta | $8,000.00 |

c. Display message as **'Salesman Aman sold goods of 50 while given target was 100'**.

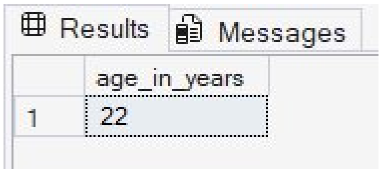
```
SELECT
    'Salesman ' + SALESMANNAME +
    ' sold goods of ' + CAST(YTDSALES AS VARCHAR) +
    ' while given target was ' + CAST(TGTTGET AS VARCHAR) AS MESSAGE
FROM SALESMAN_MASTER
WHERE SALESMANNAME = 'Aman';
```



|   | MESSAGE |
|---|---|
| 1 | Salesman Aman sold goods of 50.00 while given target was 100.00 |

d. Display your **Age in Years**.

```
select datediff(year,'2004-07-01',getdate()) as age_in_years;
```



|   | age_in_years |
|---|---|
| 1 | 22 |