

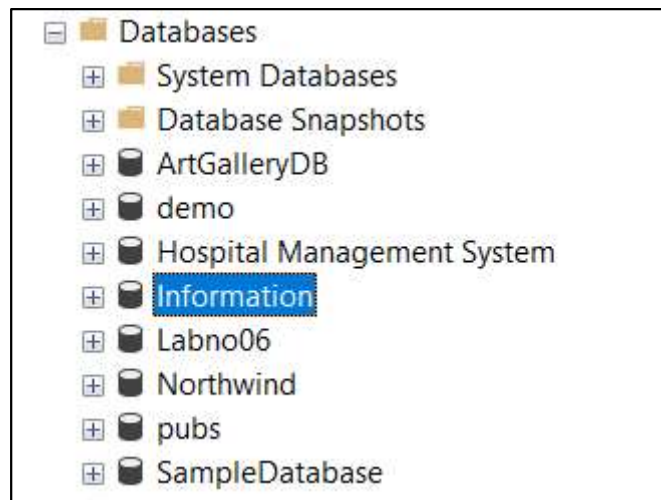
**Task No. 01:** Complete the Following task.

- a. Create Database named as Information

**Solution:**

`create database Information`

**Output:**

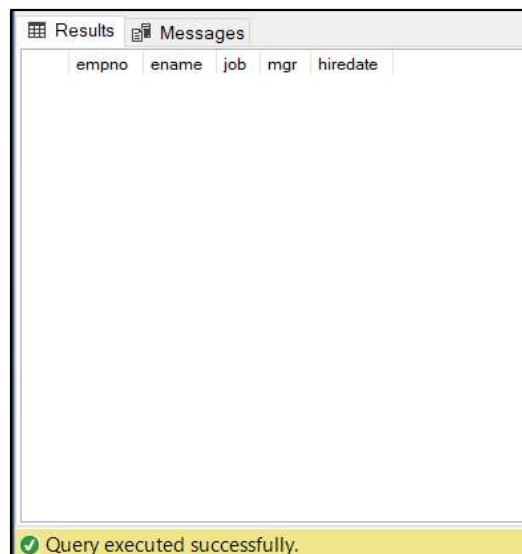


- b. Using Database Information create Employee table based on the following design:

**Solution:**

`create table Employee(empno decimal (4,0) not null primary key , ename varchar (10) not null , job varchar (9) , mgr decimal(4,0), hiredate date)`

**Output:**



c. Modify Employee table and add three more columns:

### Solution:

```
Alter table Employee add sal money not null, comm money not null, deptno decimal(2,0) not null
```

### Output:

empno	ename	job	mgr	hiredate	sal	comm	deptno
Query executed successfully.							

d. Insert 5 record in Employee Table

### Solution:

```
Insert into Employee values(1, 'Talha', 'Captain', 003, GETDATE(), 75000, 2000, 99 )
Insert into Employee values(2, 'Asad', 'LT', 006, GETDATE(), 60000, 1000, 01 )
Insert into Employee values(3, 'Haris', 'Major', 002, GETDATE(), 75000, 2000, 55 )
Insert into Employee values(4, 'Hassan', 'OC', null, GETDATE(), 40000, 1500, 04 )
Insert into Employee values(5, 'Hammad', 'Captain', 001, GETDATE(), 75000, 2000, 49 )
```

### Output:

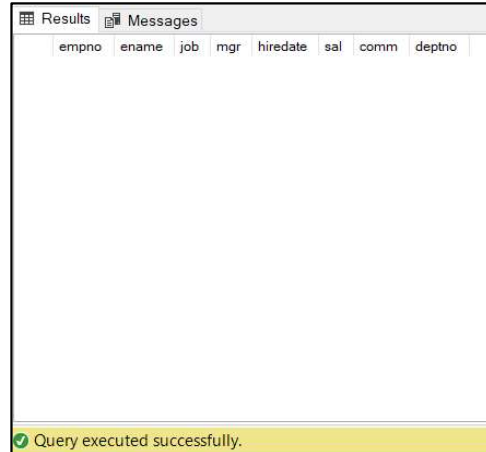
Results		Messages						
	empno	ename	job	mgr	hiredate	sal	comm	deptno
1	1	Talha	Captain	3	2024-03-26	75000.00	2000.00	99
2	2	Asad	LT	6	2024-03-26	60000.00	1000.00	1
3	3	Haris	Major	2	2024-03-26	75000.00	2000.00	55
4	4	Hassan	OC	NULL	2024-03-26	40000.00	1500.00	4
5	5	Hammad	Captain	1	2024-03-26	75000.00	2000.00	49
Query executed successfully.								

e. Delete all record from Employee table

**Solution:**

Delete from Employee

**Output:**

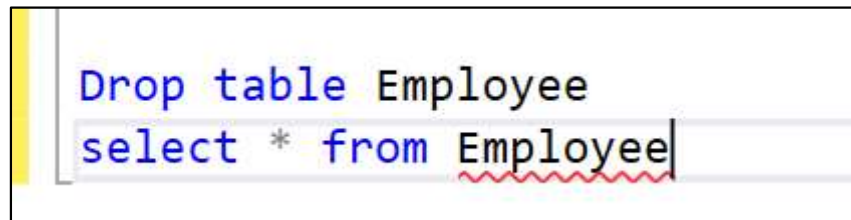


f. Drop Employee tabel Table.

**Solution:**

Drop table Employee

**Output:**

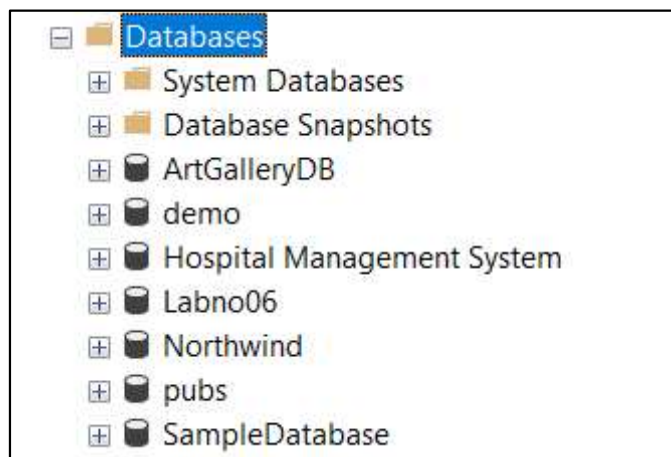


g. Drop Employee tabel Table.

**Solution:**

Drop database Information

**Output:**





**Task No. 02:** Create a database for an online bookstore. In the database create the table will store information about books available for sale. Each book has a unique ISBN (International Standard Book Number), a title, an author, a genre, and a price.

## Solution:

Create database Online\_BookStore

Create table Books\_Available (ISBN decimal not null primary key, title varchar(100) not null, author varchar(100) not null, genre varchar(100), price money)

Insert into Books\_Available values (009, 'In the Line Of Fire', 'General Pervaz Musharraf', null, 1000)

Insert into Books\_Available values (999, 'Gentle Man Series', 'Col. Ashfaq Ahmed', null, 600)

## Output:

Column Name	Data Type	Allow Nulls
ISBN	decimal(18, 0)	<input type="checkbox"/>
title	varchar(100)	<input type="checkbox"/>
author	varchar(100)	<input type="checkbox"/>
genre	varchar(100)	<input checked="" type="checkbox"/>
price	money	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Results

Messages

	ISBN	title	author	genre	price
1	9	In the Line Of Fire	General Pervaz Musharraf	NULL	1000.00
2	999	Gentle Man Series	Col. Ashfaq Ahmed	NULL	600.00

[-] Databases
[+] System Databases
[+] Database Snapshots
[+] ArtGalleryDB
[+] demo
[+] Hospital Management System
[+] Information
[+] Labno06
[+] Northwind
[+] Online_BookStore
[+] pubs
[+] SampleDatabase

**Task No. 03:** Design a database for a small company to manage its employees. You need to create a table to store employee details, including their employee ID, name, department, position, and salary.

### **Solution:**

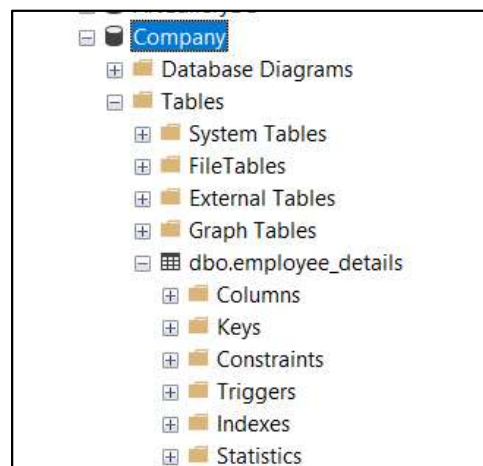
Create Database Company

use Company

```
create table employee_details(Employee_ID int primary key not null, name varchar (20) not null,
departement varchar(20) not null, position varchar(20),salary money)
```

### **Output:**

	Column Name	Data Type	Allow Nulls
🔑	Employee_ID	int	<input type="checkbox"/>
	name	varchar(20)	<input type="checkbox"/>
	departement	varchar(20)	<input type="checkbox"/>
	position	varchar(20)	<input checked="" type="checkbox"/>
	salary	money	<input checked="" type="checkbox"/>
			<input type="checkbox"/>



**Task No. 04:** Design a CRM database schema with tables for customers, orders, and products. Include fields for CustomerID, Name, Email, and Phone in the customer table. Define fields like OrderID, CustomerID (referencing Customers), OrderDate, and TotalAmount in the orders table. In the product table, include ProductID, Name, Description, and Price. Establish relationships between tables to streamline customer interactions, order processing, and product sales management in the CRM system.

### Solution:

```
create database CRM
Use CRM
```

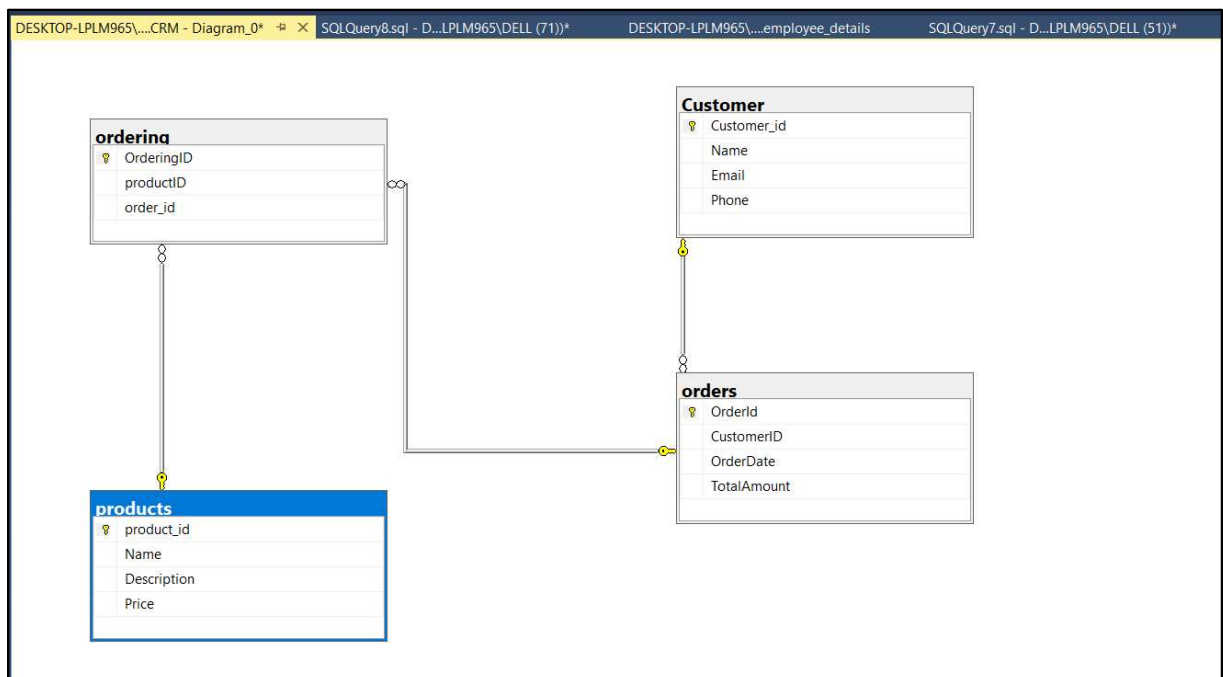
```
Create table Customer(Customer_id int
not null primary key, Name varchar(20) not null , Email varchar(20),
Phone varchar(20))
```

```
Create table orders(OrderId int
not null primary key,
CustomerID int foreign key references
Customer(Customer_id) not null,
OrderDate date not null,
TotalAmount money)
```

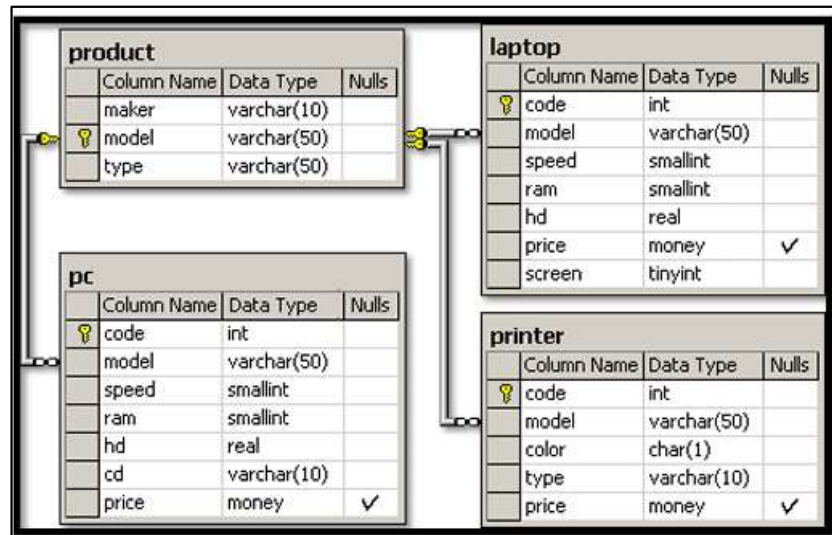
```
Create table products(product_id int
not null primary key, Name varchar(20) not null ,
Description varchar(100),
Price money)
```

```
create table ordering(OrderingID int not null primary key, productID int foreign key references
products
(product_id)
, order_id int foreign key references orders(OrderID))
```

### Output:



**Task No. 05:** Create the following tables given in diagram with constraints.



### Solution:

create database components  
use components

```
create table product(model varchar(50)
not null primary key,
maker varchar(10) not null
, type varchar(50) not null)

create table pc(code int primary key not null
,Model varchar(50) foreign key references product(model),
speed smallint not null, ram smallint not null,
hd real not null,cd varchar(10) not null,
price money)
```

```
create table laptop(code int primary key not null
,Model varchar(50) foreign key references product(model),
speed smallint not null, ram smallint not null,
hd real not null,price money, screen tinyint not null)
```

```
create table printer(code int primary key not null
,Model varchar(50) foreign key references product(model),
price money , screen tinyint not null)
```



Output: