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-- Query Editor Features --

USE Microsoft SQL Server Management Studio

The raw SQL Query is provided as a separate .sql file with the same name as this file

CREATING TABLES

Create these tables:

- Employee (empid int, empname varchar(50), deptid varchar(50), salary float, mgrid int)

- emp (empid int, empname varchar(50), deptid varchar(50))

- dept (empid int, deptname varchar(50), deptid varchar(50))

- Phone (empid int, phnumber varchar(50))

-- Creating Employee table --

Query:

```
USE [Leo]
GO

/****** Object:  Table [dbo].[Employee]    Script Date: 3/14/2023 3:16:00 AM ******/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Employee]
    (
    [empid] [int] NULL,
    [empname] [varchar](50) NULL,
    [deptid] [varchar](50) NULL,
    [salary] [float] NULL,
    [mgrid] [int] NULL
    )
    ON [PRIMARY]
GO
```

Results

100 %   ▼ ◄

🗒 Messages

```
Commands completed successfully.

Completion time: 2023-03-14T03:23:38.3027422-04:00
```

100 %   ▼ ◄

⊞ Results 🗒 Messages

empid	empname	deptid	salary	mgrid

-- Creating emp table --

Query:

```sql
USE [Leo]
GO

/****** Object:  Table [dbo].[emp]    Script Date: 3/14/2023 3:32:38 AM ******/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[emp](
    [empid] [int] NULL,
    [empname] [varchar](50) NULL,
    [deptid] [varchar](50) NULL
) ON [PRIMARY]
GO
```

Results

100 %   ▼ ◄

🗒 Messages

```
Commands completed successfully.

Completion time: 2023-03-14T03:37:39.3842420-04:00
```

100 %   ▼ ◄

⊞ Results 🗒 Messages

empid	empname	deptid

-- Creating dept table - -

Query:

```sql
USE [Leo]
GO

/****** Object:  Table [dbo].[dept]    Script Date: 3/14/2023 3:57:00 AM ******/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[dept](
    [empid] [int] NULL,
    [deptname] [varchar](50) NULL,
    [deptid] [varchar](50) NULL
) ON [PRIMARY]
GO
```

Results

100 %   ▼ ◄

▤ Messages

```
Commands completed successfully.

Completion time: 2023-03-14T04:03:03.8289906-04:00
```

100 %   ▼ ◄

▦ Results ▤ Messages

empid	deptname	deptid

-- Creating phone table --

Query:

```
USE [Leo]
GO

/****** Object:  Table [dbo].[Phone]    Script Date: 3/14/2023 7:20:09 AM ******/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Phone](
    [empid] [int] NULL,
    [phnumber] varchar(50) NULL
) ON [PRIMARY]

GO
```

100 % ▾ ◂

Messages

    Commands completed successfully.

    Completion time: 2023-03-14T04:22:11.5476024-04:00

100 % ▾ ◂

Results **Messages**

empid	phnumber

Populate the tables above. Insert 10 rows in each table.

-- Inserting records into the Employee table --

Query:

```
INSERT INTO Employee (empid, empname, deptid, salary, mgrid)
VALUES  (1, 'John Doe', '04', 50000, 2),
        (2, 'Jane Smith', '01', 60000, 3),
        (3, 'Bob Johnson', '05', 70000, 4),
        (4, 'Mary Adams', '03', 80000, 5),
        (5, 'David Lee', '02', 90000, 6),
        (6, 'Emily Chen', '04', 55000, 2),
        (7, 'Mark Davis', '01', 65000, 3),
        (8, 'Rachel Kim', '05', 75000, 4),
        (9, 'Tom Johnson', '03', 85000, 5),
        (10, 'Samantha Lee', '02', 95000, 6);
```

Results

(10 rows affected)

Completion time: 2023-03-14T06:08:12.2968139-04:00

-- Inserting records into the emp table --

Query:

```sql
INSERT INTO emp (empid, empname, deptid)
VALUES  (1, 'John Doe', '04'),
        (2, 'Jane Smith', '01'),
        (3, 'Bob Johnson', '05'),
        (4, 'Mary Adams', '03'),
        (5, 'David Lee', '02'),
        (6, 'Emily Chen', '04'),
        (7, 'Mark Davis', '01'),
        (8, 'Rachel Kim', '05'),
        (9, 'Tom Johnson', '03'),
        (10, 'Samantha Lee', '02');
```

Results

(10 rows affected)

Completion time: 2023-03-14T06:08:12.2968139-04:00

-- Inserting records into the dept table --

Query:

```sql
INSERT INTO dept (empid, deptname, deptid)
VALUES (1, 'Marketing', '04'),
       (2, 'Sales', '01'),
       (3, 'Finance', '05'),
       (4, 'Human Resources', '03'),
       (5, 'Information Technology', '02'),
       (6, 'Marketing', '04'),
       (7, 'Sales', '01'),
       (8, 'Finance', '05'),
       (9, 'Human Resources', '03'),
       (10, 'Information Technology', '02');
```

100 % ▼ ◀

🗐 Messages

```
(10 rows affected)

Completion time: 2023-03-14T07:03:12.2717291-04:00
```

-- Inserting records into the phone table --

Query:

```sql
INSERT INTO Phone (empid, phnumber)
VALUES (1, '123-456-7890'),
       (2, '234-567-8901'),
       (3, '345-678-9012'),
       (4, '456-789-0123'),
       (5, '567-890-1234'),
       (6, '678-901-2345'),
       (7, '789-0123-456'),
       (8, '890-1234-567'),
       (9, '901-234-5678'),
       (10, '012-345-6789');
```

100 % ▼ ◀

🗐 Messages

```
(10 rows affected)

Completion time: 2023-03-14T07:31:25.6757477-04:00
```

CREATING SELECT STATEMENTS

a. Retrieve all records from Employee table

b. Retrieve all records from Emp table

c. Retrieve all records from dept table

d. Retrieve all columns from the emp table where first name = David

e. Retrieve empname and Salary from the Employee table where Salary is greater than $80,000.

f. Find the deptname of deptid 1

g. Select all empid's from Employee table where mgrid = 5

h. Select all empid's from Phone table where employee does not have a phone number.

-- a. Retrieving all records from the Employee table --

Query:


```sql
SELECT *
FROM   [dbo].[Employee]
```


Results:

	empid	empname	deptid	salary	mgrid
1	1	John Doe	04	50000	2
2	2	Jane Smith	01	60000	3
3	3	Bob Johnson	05	70000	4
4	4	Mary Adams	03	80000	5
5	5	David Lee	02	90000	6
6	6	Emily Chen	04	55000	2
7	7	Mark Davis	01	65000	3
8	8	Rachel Kim	05	75000	4
9	9	Tom Johnson	03	85000	5
10	10	Samantha Lee	02	95000	6

-- b. Retrieving all records from the emp table --

Query:

```sql
SELECT *
FROM   [dbo].[emp]
```


Results:

Results | Messages

	empid	empname	deptid
1	1	John Doe	04
2	2	Jane Smith	01
3	3	Bob Johnson	05
4	4	Mary Adams	03
5	5	David Lee	02
6	6	Emily Chen	04
7	7	Mark Davis	01
8	8	Rachel Kim	05
9	9	Tom Johns...	03
10	10	Samantha ...	02

-- c. Retrieving all records from the dept table --

Query:

```
SELECT *
FROM    [dbo].[dept]
```

Results:

100 %

Results | Messages

	empid	deptname	deptid
1	1	Marketing	04
2	2	Sales	01
3	3	Finance	05
4	4	Human Resources	03
5	5	Information Technology	02
6	6	Marketing	04
7	7	Sales	01
8	8	Finance	05
9	9	Human Resources	03
10	10	Information Technology	02

-- d. Retrieve all columns from the emp table where first name = David --

Query:

```
SELECT *
FROM    emp
WHERE   empname = 'David Lee';
```

Results:

Query:

```sql
SELECT empname, Salary
FROM   Employee
WHERE  Salary > 80000;
```

Results:

Query:

```sql
SELECT deptname, deptid
FROM   dept
WHERE  deptid = 1;
```

Results:

Query:

```sql
SELECT empid,Mgrid
FROM   Employee
WHERE  Mgrid = 5;
```

Results:

	empid	Mgrid
1	4	5
2	9	5

-- h. Selecting all empid's from Phone table where employee does not have a phone number --

Query:

```sql
SELECT empid, phnumber
FROM   Phone
WHERE  phnumber IS NULL;
```

Results:

empid	phnumber