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-- Name: Leonard Kiplagat --
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-- Query Editor Features --
```

## USE Microsoft SQL Server Management Studio

### 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:

```
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:

```
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

100 %  
Messages

(10 rows affected)

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

-- Inserting records into the emp table --

Query:

```
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

100 %  
Messages

(10 rows affected)

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


-- Inserting records into the dept table --

Query:

```

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 % 

(10 rows affected)

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

-- Inserting records into the phone table --

Query:

```

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 % 

(10 rows affected)

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

## **CREATING SELECT STATEMENTS**

- Retrieve all records from Employee table
- 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:

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

Results:

100 %

 Results  Messages

	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:

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

Results:

100 %

Results			
	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			
	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:

100 %	
Results	Messages
	empid empname deptid
1	5 David Lee 02

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

Query:

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

Results:

100 %	
Results	Messages
	empname Salary
1	David Lee 90000
2	Tom Johnson 85000
3	Samantha Lee 95000

-- f. Finding the deptname of deptid 1 --

Query:

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

Results:

100 %	
Results	Messages
	deptname deptid
1	Sales 01

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

Query:

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

Results:

100 %

Results

Messages

	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:

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

Results:

100 % ▾ ◀

 Results	 Messages

