

Querying Data using Built-in Functions and T-SQL-II

Demo 1 – Manage Data using SQL Operators





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Manage Data using SQL Operators

Problem Statement: A startup company called Electro is planning to open a new branch in New Delhi. They need to do a cost analysis for this. They require employee details from other branches for this analysis.

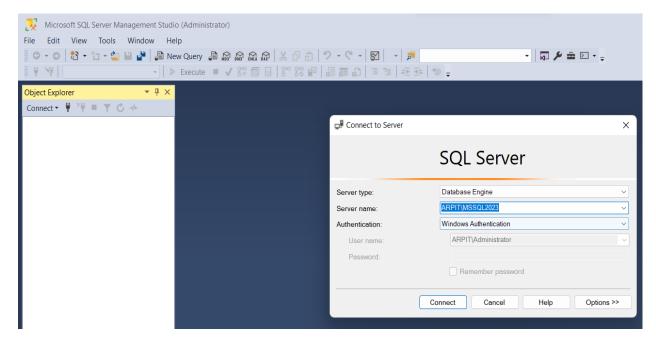
Create a database name **EmployeeDetails**, in which the employee table holds the data of all employees.

Write a SQL server Query to find out the following:

- Create a EmployeeDetails table and insert the data in same table.
- Find the employee from location "guntur" and their salary should be less than 40000.
- Find the employee from location "chennai" and their Designation should be AEO.
- Find the employee either from location "guntur" or their salary should be less than 40000.
- Find the employee either from location "CA" or their salary should be less than 20000.
- Find the employees whose **location** starts with character 'c' and followed by any string of characters.
- Find the employee who is not living in the bangalore, chennai, guntur.

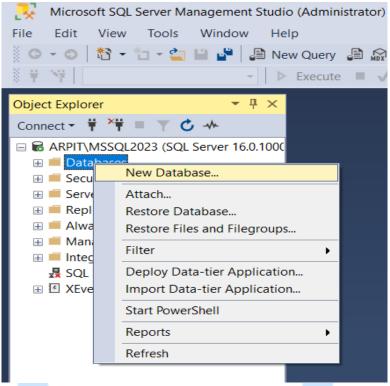
Working on the Demo

Step 1: Connect to the SQL Server using the Windows Authentication credential and selecting the server's name and server type.

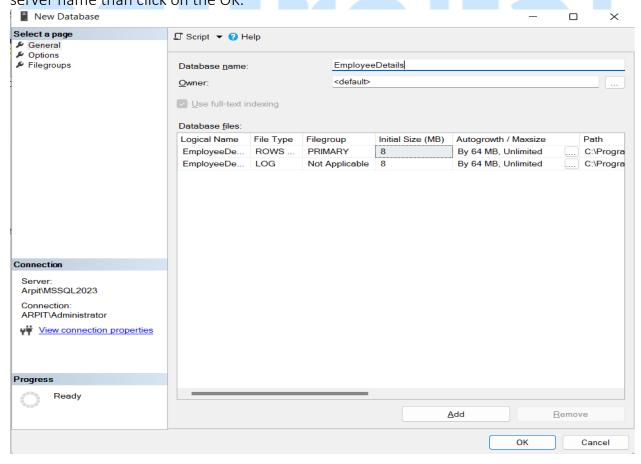


Step 2: Right click on the Database and select the New Databases.





Step 3: Give a database name an **EmployeeDetails** and check the connection and server name than click on the OK.



Step 4: Now we will create a EmployeeDetails table and insert the data in same table by using the following query

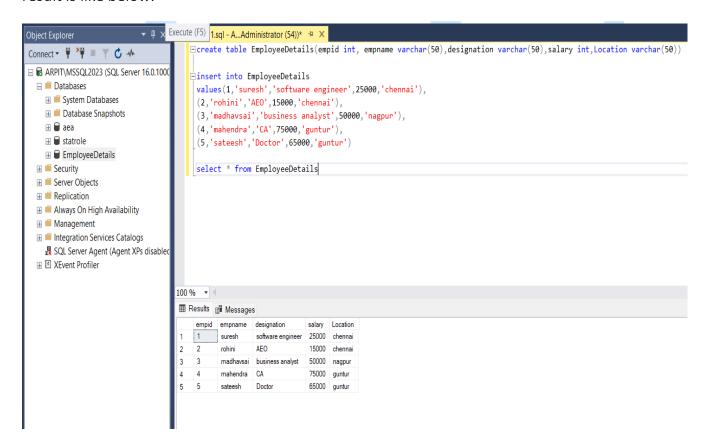


```
create table EmployeeDetails(empid int,
  empname varchar(50), designation varchar(50), salary int,
  Location varchar(50))

insert into EmployeeDetails
  values(1, 'suresh', 'software engineer', 25000, 'chennai'),
  (2, 'rohini', 'AEO', 15000, 'chennai'),
  (3, 'madhavsai', 'business analyst', 50000, 'nagpur'),
  (4, 'mahendra', 'CA', 75000, 'guntur'),
  (5, 'sateesh', 'Doctor', 65000, 'guntur')

select * from EmployeeDetails
```

When we run the above SQL script, the "EmployeeDetails" table will create, and the result is like below.



Step 5: We check multiple conditions **Location**, **Salary** with **AND** operator. It will return records that satisfy both conditions.

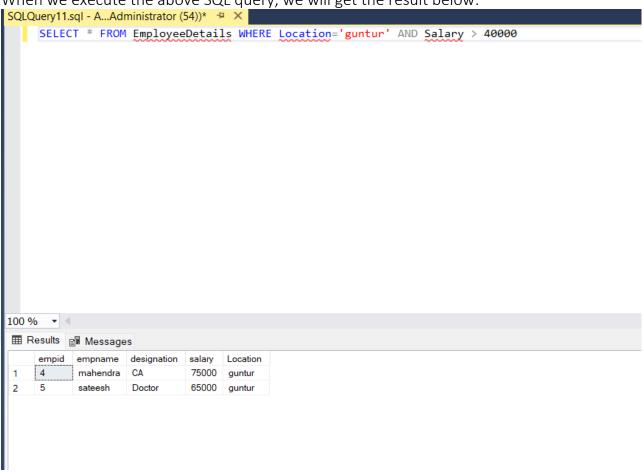
In order to find the employee from location "Guntur" and their salary should be less



than 40000. We will run the logical operator in the query.

SELECT * FROM EmployeeDetails WHERE Location='guntur' AND Salary > 40000

When we execute the above SQL query, we will get the result below:



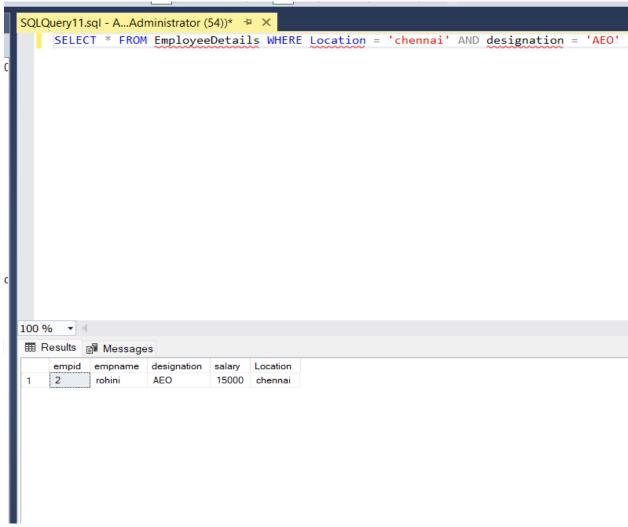
Step 6: We check multiple conditions **Location**, **Designation** with **AND** operator. It will return records that satisfy both conditions.

In order to find the employee from location "chennai" and their Designation should be AEO. We will run the logical operator in the query.



```
SELECT * FROM EmployeeDetails WHERE Location
= 'chennai' AND designation = 'AEO'
```

When we execute the above SQL query, we will get the result below:



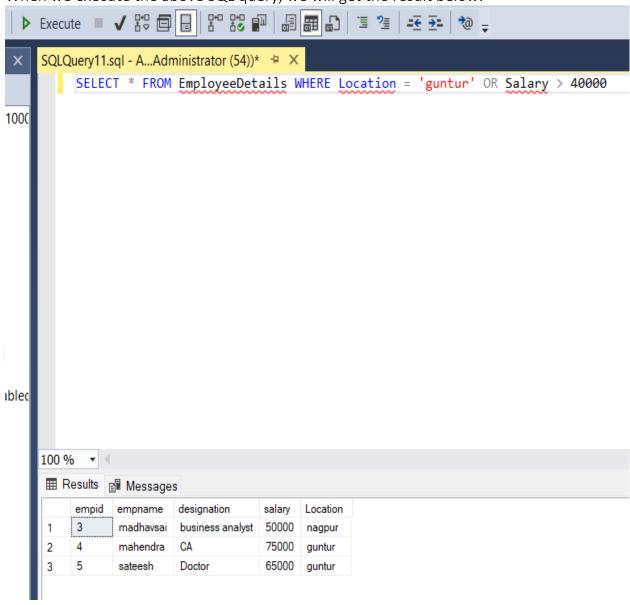
Step 7: We check multiple conditions **Location**, **Salary** with **OR** operator. It will return records that satisfy both conditions.

In order to find the employee either from location "Guntur" or their salary should be less than 40000. We will run the logical operator in the query.



SELECT * FROM EmployeeDetails WHERE Location='guntur' OR Salary > 40000

When we execute the above SQL query, we will get the result below:



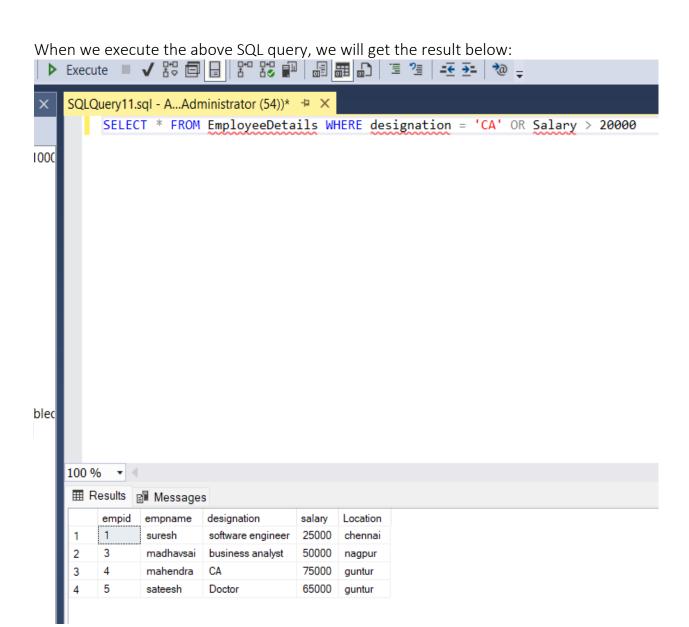
Step 8: We check multiple conditions **Designation**, **Salary** with **OR** operator. It will return records that satisfy both conditions.

In order to find the employee either from location "CA" or their salary should be less than 20000. We will run the logical operator in the query.

SELECT * FROM EmployeeDetails WHERE Designation='CA' OR S



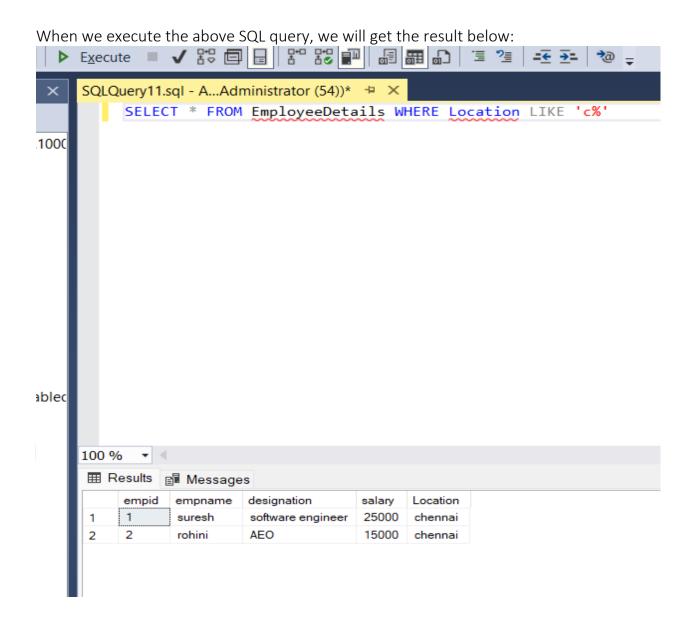
alary > 20000



Step 9: The following SQL like query will return all employees whose **location** starts with character 'c' and followed by any string of characters because we mentioned a pattern like 'c%'.

SELECT * FROM EmployeeDetails WHERE Location LIKE 'c%'



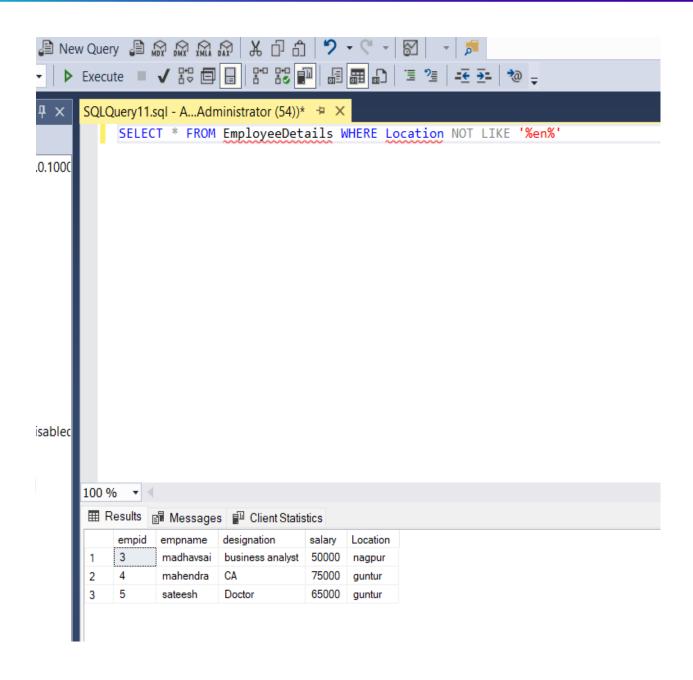


Step 10: The following SQL statement will return all the employees whose **location** does not contain a word called 'en', anywhere within the **location** column because we used a **NOT** keyword with **LIKE** operator and mentioned a pattern like '%en%'.

SELECT * FROM EmployeeDetails WHERE Location NOT LIKE '%en%'

When we execute the above SQL query, we will get the result below:





Step 11: The following SQL statement will return all the employees whose **location** not mentioned in the values.

```
SELECT * FROM EmployeeDetails WHERE Location NOT IN
  ('chennai', 'guntur', 'bangalore')
```

When we execute the above SQL query, we will get the result below:



