

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

Demo 2 – Composing T-SQL



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Composing T-SQL

Problem Statement: A survey is conducted by the Lions club company for all the employees. They want all employees' details so that they can plan expansion and further hiring process.

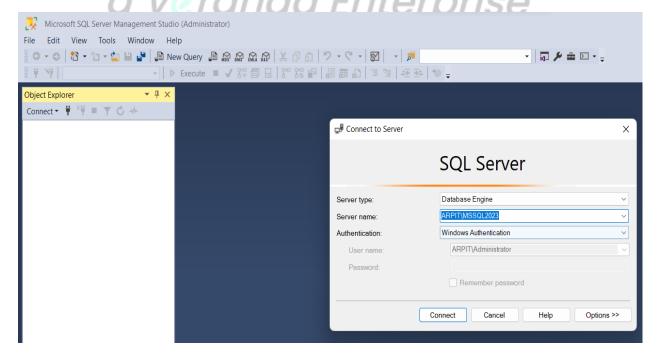
Create a database name **Employees**, in which the employee table holds the data of all employees.

Write a SQL server Query to find out the following:

- Create an employee table and insert the data in same table.
- Calculate the total number of employees listed in the given table.
- Find the total number of employees whose salary is less than 50000 and working hours greater than 9.
- Find the lowest salary of an employee stored in the employee table.
- Find the highest salary of an employee stored in the employee table.
- Create another table named "emp_address" that stores the address of each employee. It should contain name, cellphone, address, city values.
- Calculate the total number of employee and their addresses from two different tables.

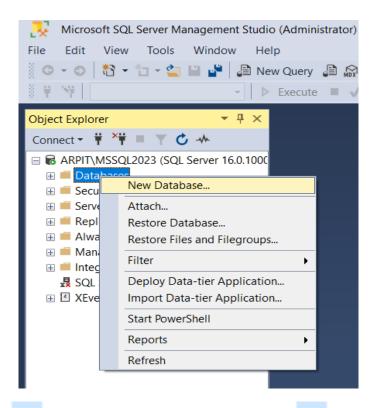
Working on the Demo

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

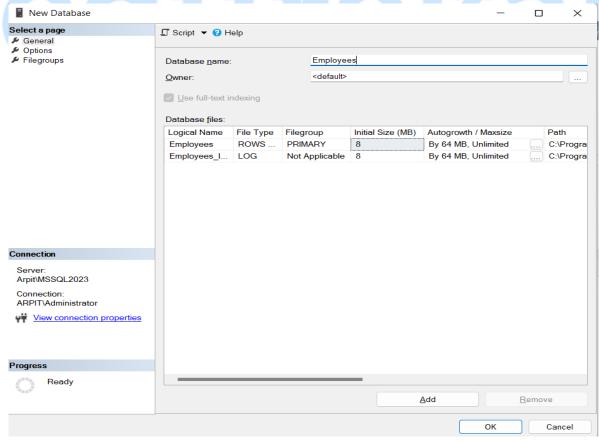


Step 2: Right click on the Database and select the New Databases.





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



Step 4: Create a table named **employee** and specify the datatypes. Run the query CREATE TABLE employee (



```
name varchar(45) NOT NULL,
       occupation varchar (35) NOT NULL,
       working date date,
       working hours varchar(10),
       salary INT
                            );
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                                     CREATE TABLE employee(
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                                         name varchar(45) NOT NULL,
☐ R ARPIT\MSSQL2023 (SQL Server 16.0.1000
                                         occupation varchar(35) NOT NULL,
  ■ ■ Databases
                                         working_date date,
    working_hours varchar(10),
    salary INT
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    ⊞ BikeStores

    ⊞ Employees

    ■ Server Objects

    ⊞ Replication

  🖽 🖷 Always On High Availability

    ■ Management

    □ SQL Server Agent (Agent XPs disabled)

  Now, we will insert some data into the table as following.
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                                  SQLQuery7.sql - AR...Administrator (61))* + X SQLQuery6.sql - AR...Administrator (54))*
                                      □INSERT INTO employee VALUES
 Connect ▼ * ♥ ■ ▼ ひ - ♣
                                       ('Jolly Evans', 'HR', '2020-10-04', 9, 25000),
('Brayden Simmons', 'Engineer', '2020-10-04', 12, 65000),

□ R ARPIT\MSSQL2023 (SQL Server 16.0.1000)

    □ ■ Databases

                                       ('Rose Huges', 'Writer', '2020-10-04', 13, 35000),
('Laura Paul', 'Manager', '2020-10-04', 10, 45000)
     ('Diego Simmons', 'Teacher', '2020-10-04', 12, 30000),
('Antonio Bennet', 'Writer', '2020-10-04', 13, 35000);
     🖽 🗑 aea

    □ employee

    ⊞  

    ■ System Tables
         III III Graph Tables

    ⊞ ■ Dropped Ledger Tables

       100 % ▼

    ⊞ ■ Programmability

■ Messages

    ■ Service Broker

                                     (6 rows affected)
```

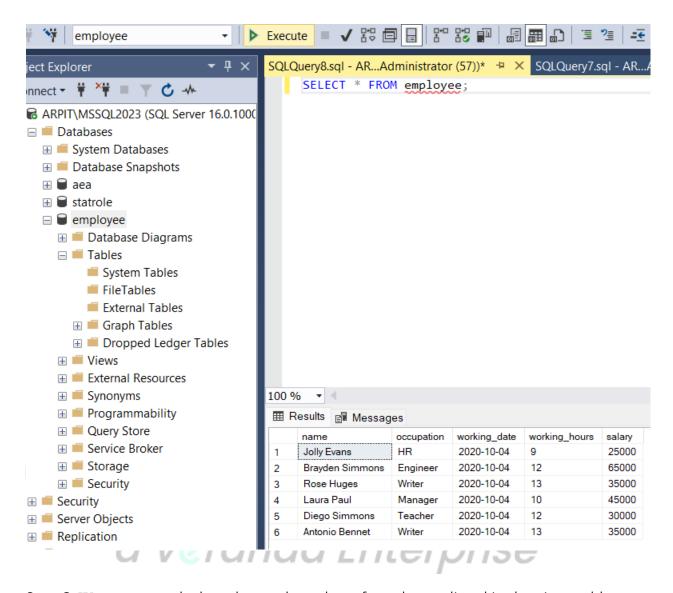
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Step 5: Now, we will check all the inserted data in the employee table.

Run the query:

Select * FROM employee;



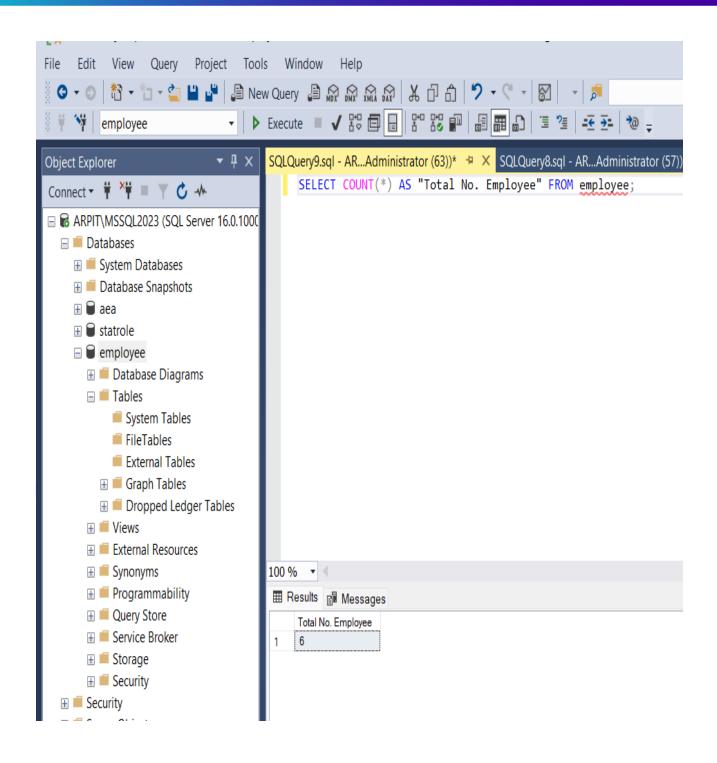


Step 6: We want to calculate the total number of employees listed in the given table.

Run the query:

SELECT COUNT(*) AS Total No. Employee FROM employee;



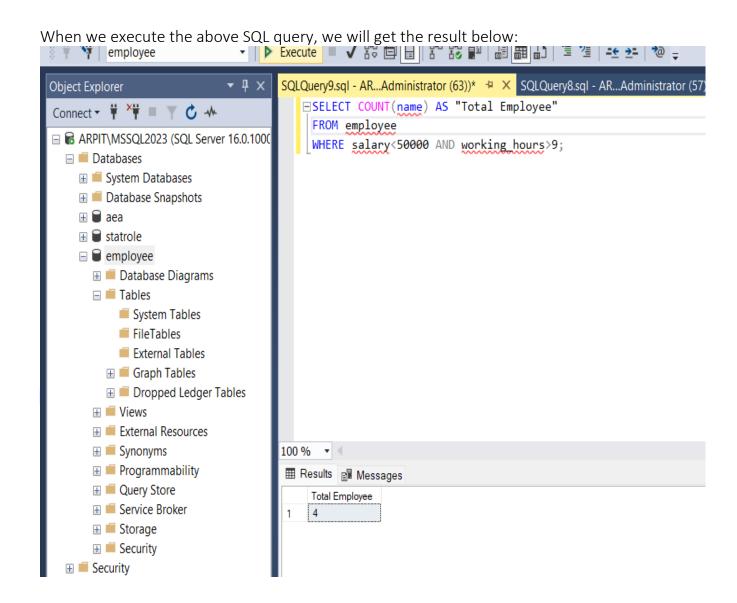


Step 7: Using the Count () function to return, finding the total number of employees whose salary is less than 50000 and working hours greater than 9.

Run the query:
SELECT COUNT(name) AS "Total Employee"
FROM employee



WHERE salary<50000 AND working hours>9;

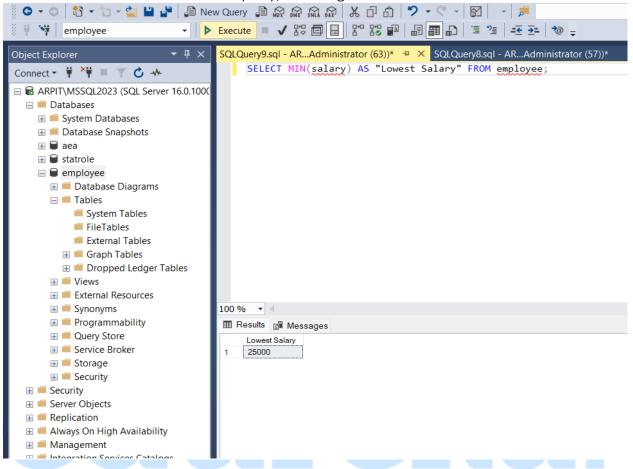


Step 8: Now we will find the lowest salary of an employee stored in the employee table.

Run the Query:
SELECT MIN(salary) AS "Lowest Salary" FROM employee;



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

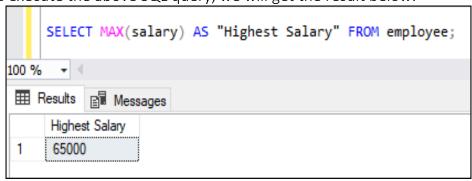


Step 9: Now we will find the highest salary of an employee stored in the employee table.

Run the Query:

SELECT MAX (salary) AS "Highest Salary" FROM employee;

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

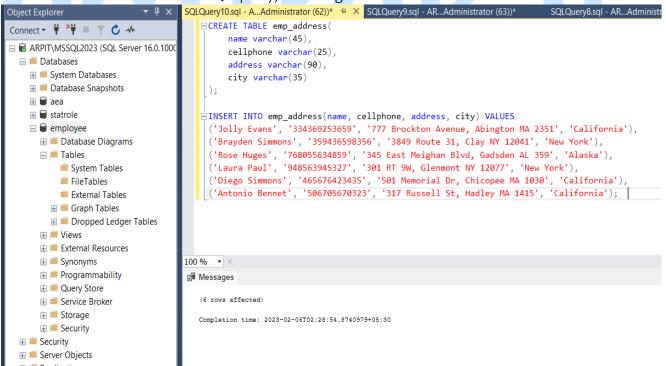


Step 10: Here, we will create another table named "emp_address" that stores the address of each employee.

Here is the query to create a table: CREATE TABLE emp_address(



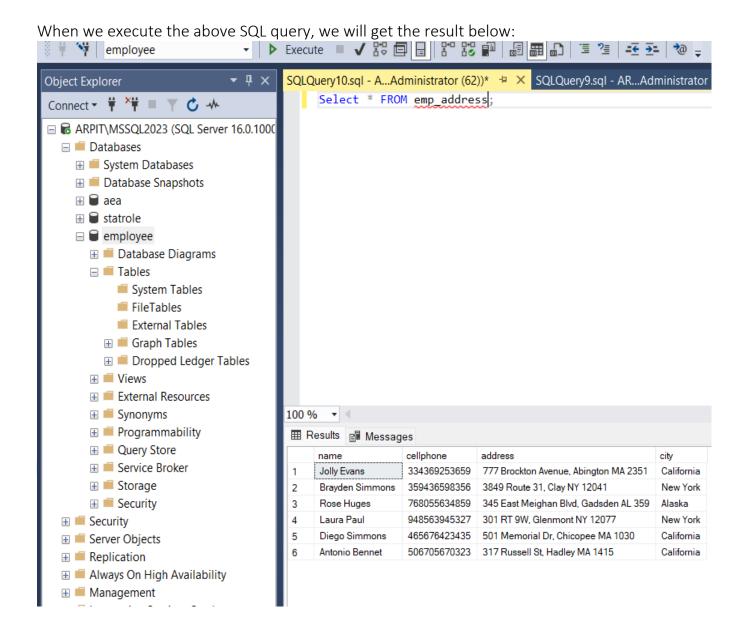
```
name varchar(45),
    cellphone varchar (25),
    address varchar (90),
    city varchar(35) );
Insert the value into the new table
INSERT INTO emp address (name, cellphone, address, city)
VALUES
('Jolly Evans', '334369253659', '777 Brockton Avenue,
Abington MA 2351', 'California'),
('Brayden Simmons', '359436598356', '3849 Route 31, Clay
NY 12041', 'New York'),
('Rose Huges', '768055634859', '345 East Meighan Blvd,
Gadsden AL 359', 'Alaska'),
('Laura Paul', '948563945327', '301 RT 9W, Glenmont NY
12077', 'New York'),
('Diego Simmons', '465676423435', '501 Memorial Dr,
Chicopee MA 1030', 'California'),
('Antonio Bennet', '506705670323', '317 Russell St,
Hadley MA 1415', 'California');
```



Step 11: Now, we will check all the inserted data into the employee table.

```
Run the query:
Select * FROM emp_address;
```

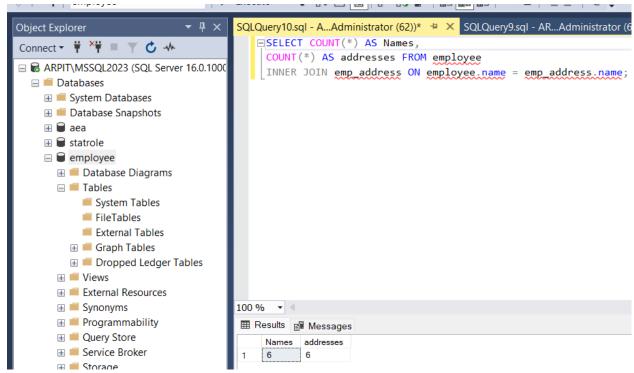




Step 12: Now we will calculate the total number of employee and their addresses from two different tables.

```
Run the query:
SELECT COUNT(*) AS Names,
COUNT(*) AS addresses FROM employee
INNER JOIN emp_address ON employee.name =
emp address.name;
```





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