Lab56:

Create a table-valued function to return employees from a specific department with a salary above a certain threshold.

1. create a table valued function:

Create a table-valued function named GetHighEarningEmployees. Which will have parameters as @Department NVARCHAR(50), @MinSalary DECIMAL(10, 2) which will be passed as an input to the function.

@Department NVARCHAR(50)- It specifies the department to filter employees by.

@MinSalary DECIMAL(10, 2)- It specifies the minimum salary threshold for filtering employees.

This function returns a table.

```
CREATE FUNCTION GetHighEarningEmployees(@Department NVARCHAR(50), @MinSalary DECIMAL(10, 2))
RETURNS TABLE
AS
RETURN
(
    SELECT EmployeeID, FirstName, LastName, Salary
    FROM Employees
    WHERE Department = @Department AND Salary > @MinSalary
);
```

This SELECT statement retrieves columns (EmployeeID, FirstName, LastName, and Salary) from the Employees table where the Department matches the input parameter @Department and the Salary is greater than the input parameter @MinSalary.

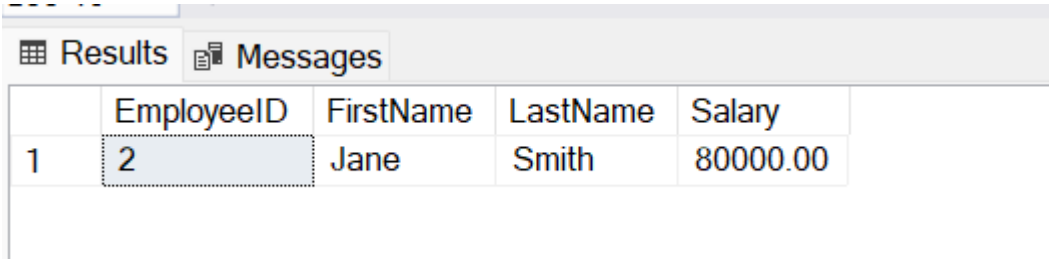
2. Use the Table-Valued Function in a Query:

```
----------Use the Table-Valued Function in a Query----------
SELECT * FROM dbo.GetHighEarningEmployees('IT', 70000);
```

This command calls the GetHighEarningEmployees table-valued function.

IT': This value is passed to the @Department parameter of the function and 70000: This value is passed to the @MinSalary parameter of the function which will retrieves the records of employee table those who have department as an IT and salary greater than 70000.

The output will be:


Results Messages

	EmployeeID	FirstName	LastName	Salary
1	2	Jane	Smith	80000.00