

Part 31 – Inline Table Valued Functions

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In this session we will learn

- Creating Inline Table Valued Function
- How to call an Inline Table Valued Function
- Where do we use inline table valued functions

Pre-requisite

Part 30 – User Defined Functions

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Inline Table Valued Functions

In **Part 30** of this video series we have seen how to create and call '**scalar user defined functions**'. In this part, we will learn about '**Inline Table Valued Functions**'

SCALAR FUNCTION – RETURNS A **SCALAR VALUE**

INLINE TABLE VALUED FUNCTION – RETURNS A **TABLE**

Id	Name	DateOfBirth	Gender	DepartmentId
1	Sam	1980-12-30 00:00:00.000	Male	1
2	Pam	1982-09-01 12:02:36.260	Female	2
3	John	1985-08-22 12:03:30.370	Male	1
4	Sara	1979-11-29 12:59:30.670	Female	3
5	Todd	1978-11-29 12:59:30.670	Male	1

Id	Name	DateOfBirth	Gender	DepartmentId
1	Sam	1980-12-30 00:00:00.000	Male	1
3	John	1985-08-22 12:03:30.370	Male	1
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```
CREATE FUNCTION fn_EmployeesByGender (@Gender nvarchar(10))
RETURNS TABLE
AS
RETURN (Select Id, Name, DateOfBirth, Gender, DepartmentId
        from   tblEmployees
        where  Gender = @Gender)
```

1. We specify **TABLE** as the return type, instead of any scalar data type
2. The function body is not enclosed between **BEGIN** and **END** block.
3. The structure of the table that gets returned, is determined by the **SELECT** statement with in the function.

Inline Table Valued Functions

```
-- To Call the function
Select * from fn_EmployeesByGender ('Male')
```

Id	Name	DateOfBirth	Gender	DepartmentId
1	Sam	1980-12-30 00:00:00.000	Male	1
3	John	1985-08-22 12:03:30.370	Male	1
5	Todd	1978-11-29 12:59:30.670	Male	1

Id	DepartmentName	Location	DepartmentHead
1	IT	London	Rick
2	Payroll	Delhi	Ron
3	HR	New York	Christie
4	Other Department	Sydney	Cindrella

```
SELECT Name, Gender, DepartmentName
FROM    fn_EmployeesByGender ('Male') E
JOIN    tblDepartment D ON D.Id = E.DepartmentId
```

Name	Gender	DepartmentName
Sam	Male	IT
John	Male	IT
Todd	Male	IT

Where can we use Inline Table Valued functions

1. Inline Table Valued functions can be used to achieve the functionality of parameterized views. We will talk about views, in a later session.

2. The table returned by the table valued function, can also be used in joins with other tables.

Joins

Part 12: Joins in SQL Server

Part 13: Advanced Joins

Additional Resources

- PRAGIM Home Page:

- <http://www.PragimTech.com>

- Resources:

- ASP.NET Interview Questions
 - <http://www.VenkatASPInterview.Blogspot.com>
 - C# Interview Questions
 - <http://www.VenkatCSharpInterview.Blogspot.com>

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