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Part 14 – Self Join

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In this session we will learn

- Joining a table with itself - Self Join
- Self Join can be classified as
  - Inner Self Join
  - Outer Self Join (Left, Right and Full)
  - Cross Self Join

Pre-requisite:
Part 12 – Joins in SQL Server
Part 13 – Advanced Joins in SQL Server

Self Join

In parts 12 and 13, we have seen joining 2 different tables - tblEmployees and tblDepartments. Have you ever thought of a need to join a table with itself.

EmployeeID	Name	ManagerID
1	Mike	3
2	Rob	1
3	Todd	NULL
4	Ben	1
5	Sam	1

Employee	Manager
Mike	Todd
Rob	Mike
Todd	NULL
Ben	Mike
Sam	Mike

```
-- Left Outer Self Join
SELECT      E.Name AS Employee, M.Name AS Manager
FROM        tblEmployee E
LEFT JOIN   tblEmployee M
ON          E.ManagerId = M.EmployeeId
```

```
-- Inner Self Join
SELECT      E.Name AS Employee, M.Name AS Manager
FROM        tblEmployee E
INNER JOIN tblEmployee M
ON          E.ManagerId = M.EmployeeId
```

```
-- Cross Self Join
SELECT      E.Name AS Employee, M.Name AS Manager
FROM        tblEmployee E
CROSS JOIN tblEmployee M
```

Joining a table with itself is called as SELF JOIN.

SELF JOIN is not a different type of JOIN.

It can be classified under any type of JOIN:

1. INNER,
2. OUTER (Left, Right, Full)
3. CROSS 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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