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In this video session we will learn about

1. Advanced or intelligent joins in SQL Server
2. Retrieve only the non matching rows from the left table
3. Retrieve only the non matching rows from the right table
4. Retrieve only the non matching rows from both the left and right table

Before watching this video, **please watch Part 12 - Joins in SQL Server**



Advanced or intelligent joins in...



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Considers Employees (tblEmployee) and Departments (tblDepartment) tables

Employee Table (tblEmployee)

| ID | Name | Gender | Salary | DepartmentId |
|----|---------|--------|--------|--------------|
| 1 | Tom | Male | 4000 | 1 |
| 2 | Pam | Female | 3000 | 3 |
| 3 | John | Male | 3500 | 1 |
| 4 | Sam | Male | 4500 | 2 |
| 5 | Todd | Male | 2800 | 2 |
| 6 | Ben | Male | 7000 | 1 |
| 7 | Sara | Female | 4800 | 3 |
| 8 | Valarie | Female | 5500 | 1 |
| 9 | James | Male | 6500 | NULL |
| 10 | Russell | Male | 8800 | NULL |

Departments Table (tblDepartment)

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

How to retrieve only the non matching rows from the left table. The output should be as shown below:

| Name | Gender | Salary | DepartmentName |
|---------|--------|--------|----------------|
| James | Male | 6500 | NULL |
| Russell | Male | 8800 | NULL |

Query:

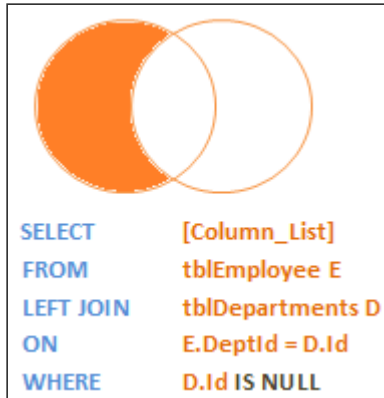
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```

SELECT Name, Gender, Salary, DepartmentName
FROM tblEmployee E
LEFT JOIN tblDepartment D
ON E.DepartmentId = D.Id
WHERE D.Id IS NULL

```



How to retrieve only the non matching rows from the right table

| Name | Gender | Salary | DepartmentName |
|------|--------|--------|------------------|
| NULL | NULL | NULL | Other Department |

Query:

```

SELECT Name, Gender, Salary, DepartmentName
FROM tblEmployee E
RIGHT JOIN tblDepartment D
ON E.DepartmentId = D.Id
WHERE E.DepartmentId IS NULL

```

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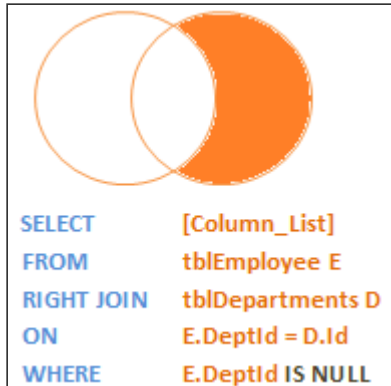
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How to retrieve only the non matching rows from both the left and right table.
Matching rows should be eliminated.

| Name | Gender | Salary | DepartmentName |
|---------|--------|--------|------------------|
| James | Male | 6500 | NULL |
| Russell | Male | 8800 | NULL |
| NULL | NULL | NULL | Other Department |

Query:

```

SELECT      Name, Gender, Salary, DepartmentName
FROM        tblEmployee E
FULL JOIN    tblDepartment D
ON          E.DepartmentId = D.Id
WHERE       E.DepartmentId IS NULL
OR          D.Id IS NULL
  
```

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```
SELECT      [Column_List]
FROM        tblEmployee E
FULL JOIN   tblDepartments D
ON          E.DeptId = D.Id
WHERE       E.DeptId IS NULL
OR          D.Id IS NULL
```

9 comments:



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ALOK DEO May 25, 2014 at 9:18 AM

hello sir ,

i have a query i want to join two table one table party_table contain 4 column-- id
|party_name | assign_user1 | assign_user2 | assign_user3 | assign_user4
01| abc11 | 100 |102 | null | 103

02| abc12 | 102 | 103 | 100 | null

and and second table contain party name and code like this

assigned_code | party_code

100 | abc16

102 | abc17

i want to join both of the table and get the all party name , from both of the table of and assigned user ..

is it possible to join one column from multiple column (check the favorable matching value)of another column and show in one table.

is it possible ..

Reply

Replies

Anonymous June 1, 2016 at 4:24 PM

@ALOK DEO, I think u cannot join the two tables you mentioned in the example because there is no common column in both the tables .When u have a common column in both tables u can get all the users using left join.
CORRECT ME IF I AM WRONG !!

Reply

Anonymous July 26, 2015 at 10:47 PM

Hi Venkat,

can you please explain how can we compare two tables in sql

Reply

Anonymous June 1, 2016 at 11:20 PM

Great tutorials, I have question though, I want to generate n number of rows in a table, how do I do it using sql (not using stored proc or function)
n = 10 or 20 or ...

Reply

Replies



raju July 27, 2016 at 10:43 PM

Query to generate 20 rows without using stored proc or function .. try this...

```
declare @Start int
declare @End int
set @Start = 1
set @End = 20
while(@Start <= @End)
begin
Select convert(varchar,@Start) + ' Row' as Rows
Set @Start = @Start + 1
end
```

Reply

raju July 27, 2016 at 1:54 AM



Hi Anonymous June 1,2006 at 11.20 ... the Answer for ur question is as follows....
Execute the below lines of code in sql .. u will 20 rows..

```
declare @Start int
declare @End int
set @Start = 1
set @End = 20
while(@Start <= @End)
begin
Select cast(@Start as varchar) + ' Row' as Rows
Set @Start = @Start + 1
end
```

[Reply](#)



JAHANGEER March 28, 2018 at 2:38 AM

You are genius in teaching...

[Reply](#)

Anonymous November 25, 2018 at 10:39 PM

First of all thanks to such wonderful explanatory videos.

On that note, I have a question. Why these intelligent joins are used as this can be achieved without joining the tables when we actually do not need any information from the other table then just the filtering clause would do to achieve these results.

Your response is greatly appreciated.

Thanks

Raja

[Reply](#)



sparkleindia December 3, 2018 at 9:53 PM

In finding the not matching from left/right in the Venkat's illustration. Where clause =NULL is used. I suppose this is considering the two tables related by foreign- primary key. How can we solve this if there is no foreign key relationship ? Or can i use where table1.id != talbe2.id ?

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