

SQL TIPS AND TRICKS

PART 9

Full Outer Join

Find change in Employee status

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Sample Example

emp1

	emp_id	designation
▶	1	Trainee
	2	Developer
	3	Senior Developer
	4	Manager

emp2

	emp_id	designation
▶	1	Developer
	2	Developer
	3	Manager
	5	Trainee

Query using Full Outer Join

```
25 •   select isnull(emp1.emp_id, emp2.emp_id) as emp_id ,  
26   case when emp1.designation != emp2.designation then "promoted"  
27   when emp2.designation is null then "resigned"  
28   else "new" end as comment  
29   from emp1  
30 ✖   full outer join emp2 on emp1.emp_id = emp2.emp_id  
31   where isnull(emp1.designation,"xxx") != isnull(emp2.designation,"yyy");  
32
```

Query without Full Outer Join (My Database doesn't support FOJ)

```
113 • SELECT IFNULL(emp1.emp_id, emp2.emp_id) AS emp_id,  
114     CASE WHEN emp1.designation IS NULL AND emp2.designation IS NOT NULL THEN 'new'  
115           WHEN emp1.designation IS NOT NULL AND emp2.designation IS NULL THEN 'resigned'  
116           WHEN emp1.designation != emp2.designation THEN 'promoted'  
117           ELSE 'not promoted'  
118     END AS comment  
119 FROM emp1  
120 LEFT JOIN emp2 ON emp1.emp_id = emp2.emp_id  
121 UNION ALL  
122 SELECT IFNULL(emp1.emp_id, emp2.emp_id) AS emp_id,  
123     CASE WHEN emp1.designation IS NULL AND emp2.designation IS NOT NULL THEN 'new'  
124           WHEN emp1.designation IS NOT NULL AND emp2.designation IS NULL THEN 'resigned'  
125           WHEN emp1.designation != emp2.designation THEN 'promoted'  
126           ELSE 'not promoted'  
127     END AS comment  
128 FROM emp1  
129 RIGHT JOIN emp2 ON emp1.emp_id = emp2.emp_id  
130 WHERE emp1.emp_id IS NULL;
```

OUTPUT

Result Grid			Filter Rows:
	emp_id	comment	
▶	1	promoted	
	2	not promoted	
	3	promoted	
	4	resigned	
	5	new	



THANK YOU

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