## SQL TIPS AND TRICKS

PART 9

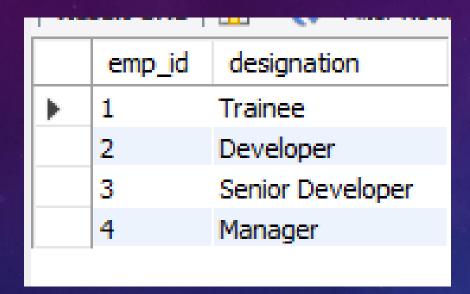
### **Full Outer Join**

Find change in Employee status

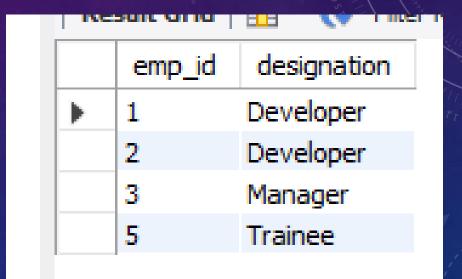
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#### Sample Example

#### emp1



#### emp2



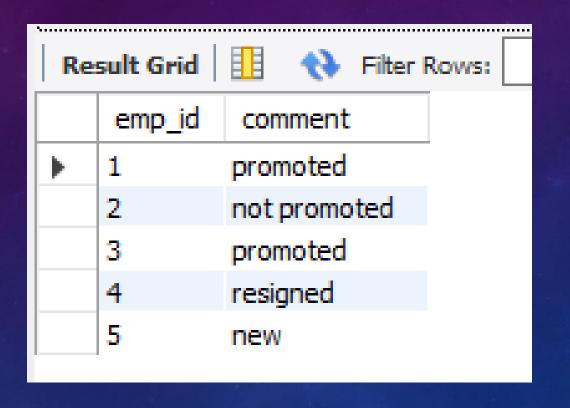
#### Query using Full Outer Join

```
select isnull(emp1.emp_id, emp2.emp_id) as emp_id ,
case when emp1.designation != emp2.designation then "promoted"
when emp2.designation is null then "resigned"
else "new" end as comment
from emp1
full outer join emp2 on emp1.emp_id = emp2.emp_id
where isnull(emp1.designation,"xxx") != isnull(emp2.designation,"yyyy");
```

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

```
113 •
       SELECT IFNULL(emp1.emp id, emp2.emp id) AS emp id,
           CASE WHEN emp1.designation IS NULL AND emp2.designation IS NOT NULL THEN 'new'
114
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



# THANK YOU

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