SQL TIPS AND TRICKS

PART 26

PWC INTERVIEW QUESTION

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Example--

source
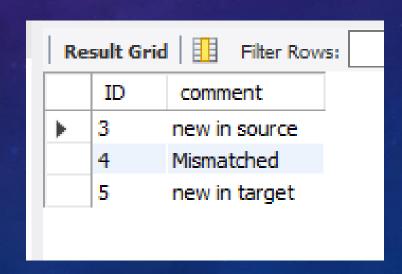
target

	ID	Name
▶	1	A
	2	B
	3	C
	4	D

Result Grid

	ID	Name
▶	1	A
	2	B
	4	X
	5	F

GET OUTPUT AS ---→

Result Grid   Filter Rows:

	ID	comment
▶	3	new in source
	4	Mismatched
	5	new in target

```sql
11      -- METHOD 1
12  •   SELECT COALESCE(S.ID, T.ID), -- S.Name, T.Name,
13  ⊖   CASE WHEN T.Name IS NULL THEN "New In Source"
14              WHEN S.Name IS NULL THEN "New In Target"
15              ELSE "Mismatched" END AS comments
16      FROM SOURCE S
17  ▪   FULL JOIN TARGET T ON S.ID = T.ID
18      WHERE S.Name != T.Name OR S.Name IS NULL OR T.Name IS NULL
19
```

```sql
20    -- METHOD 2
21    WITH cte AS(
22    SELECT *, "source" AS table_name FROM source
23    UNION ALL
24    SELECT *, "target" AS table_name FROM target
25    )
26    SELECT ID,-- count(*) AS cmt, MIN(Name) AS min_name, MAX(Name) AS max_name,
27            -- MIN(table_name) AS min_tablename, MAX(table_name) AS max_table_name,
28    CASE WHEN MIN(Name) != MAX(Name) THEN "Mismatched"
29        WHEN MIN(table_name)= "source" THEN "new in source"
30        ELSE "new in target" END AS comment
31    FROM cte
32    GROUP BY ID
33    HAVING count(*) = 1 OR (count(*) = 2 AND MIN(Name) != MAX(Name))
```

THANK YOU

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