SQL Challenge: Day 1

100 days of SQL challenge

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Problem:
You are given a table match_results with columns team1, team2, and winner. Each row represents a match between two teams and the winner.

Task:
Write an SQL query to generate a points table showing:

- Team Name
- Total matches played
- Number of wins
- Number of losses

	A	B	C	D	E	F	G	H	I	J	K
1	INPUT							Output			
2	Team_1	Team_2	Winner					Team_Name	Matches_played	no_of_wins	no_of_losses
3	India	SL	India					India	2	2	0
4	SL	Aus	Aus					SL	2	0	2
	SA	Eng	Eng					SA	1	0	1
	Eng	NZ	NZ					Eng	2	1	1
7	Aus	India	India					Aus	2	1	1
8								NZ	1	1	0

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Goal:
Create a points table showing matches played, wins and losses.

```sql
select t as team_name,count(1) as matches_played,sum(no_of_wins) as no_of_matches_won,
count(1)- sum(no_of_wins) as no_of_matches_lost from
( select team_1 as t, case when Winner = team_1 then 1 else 0 end as no_of_wins
from icc_world_cup
union all
select team_2 as t, case when Winner = team_2 then 1 else 0 end as no_of_wins
from icc_world_cup)
t group by team_name
order by no_of_matches_won desc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

team_name	matches_played	no_of_matches_won	no_of_matches_lost
India	2	2	0
Eng	2	1	1
Aus	2	1	1
NZ	1	1	0
SL	2	0	2
SA	1	0	1

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How I Approached It – Day 1

When I looked at the problem, the first thing I noticed was that each match had two separate team columns. To analyze all teams together, I combined them into a single list using **UNION ALL**.

Next, I needed a way to identify which team won each match, so I used conditional logic (**CASE WHEN**) to assign a win to the correct team.

After preparing that, I summarized the results by team using **GROUP BY** to calculate matches played, matches won, and matches lost.

Finally, I arranged the output so the top-performing teams appear first **using ORDER BY**.

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