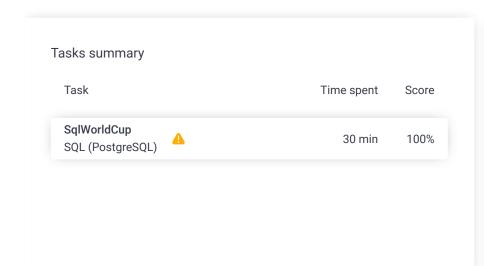
Codility_

CodeCheck Report: trainingS6GNJZ-B2X

Test Name:

Al Assistant Transcript Summary Timeline





Check out Codility training tasks

Tasks Details

1. SqlWorldCup

Given a list of matches in a group stage of the soccer World Cup, compute the number of points each team currently has.

Task Score

100%

Correctness

Performance

100% Not assessed

Task description

You are given two tables, teams and matches, with the following structures:

```
create table teams (
    team_id integer not null,
    team_name varchar(30) not null,
    unique(team id)
);
create table matches (
    match id integer not null,
    host_team integer not null,
    guest_team integer not null,
    host_goals integer not null,
    guest goals integer not null,
```

Solution

Programming language used: SQL (PostgreSQL) Total time used: 30 minutes Effective time used: 30 minutes not defined yet Notes: Task timeline

```
unique(match_id)
);
```

Each record in the table teams represents a single soccer team. Each record in the table matches represents a finished match between two teams. Teams (host_team, guest_team) are represented by their IDs in the teams table (team_id). No team plays a match against itself. You know the result of each match (that is, the number of goals scored by each team).

You would like to compute the total number of points each team has scored after all the matches described in the table. The scoring rules are as follows:

- If a team wins a match (scores strictly more goals than the other team), it receives three points.
- If a team draws a match (scores exactly the same number of goals as the opponent), it receives one point.
- If a team loses a match (scores fewer goals than the opponent), it receives no points.

Write an SQL query that returns a ranking of all teams (team_id) described in the table teams. For each team you should provide its name and the number of points it received after all described matches (num_points). The table should be ordered by num_points (in decreasing order). In case of a tie, order the rows by team_id (in increasing order).

For example, for:

teams:

team_id	team_name	
+		
10	Give	
20	Never	
30	You	
40	Up	
50	Gonna	

matches:

guest_goals	5	_		guest_team		host_goals		
	+-		+.		-+		+	
	-							
1		30		20		1		0
2		10		20		1		2
3		20		50		2		2
4		10		30		1		0
5		30		50		0		1

your query should return:

_	team_name	
20		4
50	Gonna	4
10	Give	3

Code: 01:42:31 UTC, sqlshow code in pop-up postgres, final, score: 100 -- Implement your solution here ; WITH host_scores_CTE AS 2 3 (4 SELECT host_team AS team_id, 5 CASE WHEN (host_goals > guest_goals) THEN 3 WHEN (host_goals = guest_goals) THEN 1 6 7 ELSE 0 END AS scores 8 FROM matches 9) 10 , guest_scores_CTE AS 11 12 13 SELECT guest_team AS team_id, 14 CASE WHEN (host_goals < guest_goals) THEN 3 15 WHEN (host_goals = guest_goals) THEN 1 16 ELSE 0 END AS scores 17 FROM matches 18) 19 , all_scores_CTE AS 20 21 22 SELECT * FROM host_scores_CTE 23 UNION ALL 24 SELECT * FROM guest_scores_CTE 25

SELECT t.team_id, t.team_name, COALESCE(SUM(scores)

LEFT JOIN all_scores_CTE s ON s.team_id = t.tea

Analysis summary

FROM teams t

The solution obtained perfect score.

GROUP BY t.team_id, t.team_name
ORDER BY num_points DESC, team_id

Analysis

26

2728

29

30

31

ехра	nd all	Example	tests	
•	example example test		√ OK	
ехра	ind all	Correctnes	s tests	
•	both_tables_er	. ,	√ OK	
•	no_matches some teams, but r	no matches	√ OK	
•	one_match many teams, only	one match	√ OK	
•	simple_only_di		√ OK	
•	simple_no_dra		√ OK	
•	simple_distinc		√ OK	

30	You	3
40	Up	0

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>	many_draws test where teams with many draws are better than a single win	√ OK
>	same_scores test where many matches have been conducted and all teams tie	√ OK
•	only_two_teams_playing many teams, only two of them playing 50 matches	√ OK
•	random totally random test, 8 teams, 100 matches	√ OK
>	random_some_teams totally random test, 20 teams, 100 matches between 8 first teams	√ OK