**Day 22 – IPL Winning Streak**

***Problem Statement:***

Given table has details of every IPL 2023 matches. Identify the maximum winning streak for each team.

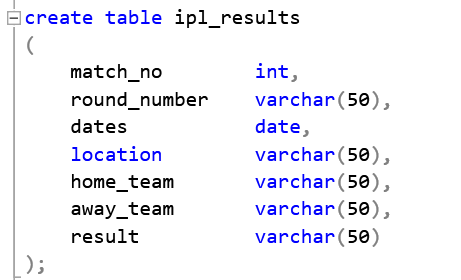
*Additional test cases:*

1) Update the dataset such that when Chennai Super Kings win match no 17, your query shows the updated streak.

2) Update the dataset such that Royal Challengers Bangalore loose all match and your query should populate the winning streak as 0

***Input***:

*Table1: ipl\_results*



*ExpectedOutput:*

|  |  |
| --- | --- |
| **EXPECTED OUTPUT** | |
| **TEAMS** | **MAX\_WINNING\_STREAK** |
| Lucknow Super Giants | 3 |
| Chennai Super Kings | 3 |
| Mumbai Indians | 3 |
| Gujarat Titans | 3 |
| Rajasthan Royals | 3 |
| Sunrisers Hyderabad | 2 |
| Royal Challengers Bangalore | 2 |
| Delhi Capitals | 2 |
| Kolkata Knight Riders | 2 |
| Punjab Kings | 2 |

**SOLUTION**

With teams\_cte

as(

select home\_team as teams from ipl\_results

union

select away\_team as teams from ipl\_results

),

teams\_id\_cte

as(

select dates,teams,result,row\_number() over(partition by teams order by teams,dates) as rn

from teams\_cte as tc

join ipl\_results as ir on tc.teams=ir.away\_team or tc.teams=ir.home\_team

)

,teams\_diff\_cte

as(

select \*, rn - ROW\_NUMBER() over(partition by teams order by teams,dates) as diff

from teams\_id\_cte

where result = teams

),

teams\_final\_cte

as(

select teams, COUNT(diff) oveR(partition by teams,diff order by teams,dates) as cnt

from teams\_diff\_cte

)

select tc.teams,isnull(MAX(cnt),0) as max\_winning\_streak

from teams\_cte as tc left join teams\_final\_cte as tfc on tc.teams=tfc.teams

group by tc.teams

order by max\_winning\_streak desc

To test the additional cases – Update the dataset

-- Update dataset to test result

update ipl\_results

set result='Chennai Super Kings'

where match\_no=17;

update ipl\_results

set result='Mumbai Indians'

where match\_no=5;

update ipl\_results

set result='Delhi Capitals'

where match\_no=20;

update ipl\_results

set result='Punjab Kings'

where match\_no=27;

update ipl\_results

set result='Rajasthan Royals'

where match\_no=32;

update ipl\_results

set result='Lucknow Super Giants'

where match\_no=43;

update ipl\_results

set result='Rajasthan Royals'

where match\_no=60;

update ipl\_results

set result='Sunrisers Hyderabad'

where match\_no=65;

***OUTPUT***

