

Table: Players			
Id	Name	Position	Club_Id
1	Ram	Striker	1
2	Sam	Defender	1
3	Hari	Striker	2
4	Sita	Midfielder	3
5	Gita	Goalkeeper	3
6	Rita	Striker	4
7	Bishal	Striker	6

Table: Managers	
Id	Name
1	Jose
2	Frank
3	Pep
4	Jurgen
5	Emma
6	Sonia

Table: Clubs	
Id	Name
1	Kathmandu FC
2	FC Lalitpur
3	Bhaktapur Women FC

4	Banepa Women FC
5	Bhaktapur FC
6	FC Chitwan
7	Jhapa FC

Table: Club_Managers				
Id	Club_Id	Manager_Id	Start_Date	End_Date
1	2	1	2017-01-01	2017-06-05
2	1	3	2020-11-05	NULL
3	3	5	2016-01-01	NULL
4	4	6	2017-05-03	NULL
5	2	2	2017-06-15	2019-01-03
6	5	4	2019-03-07	NULL
7	7	1	2019-05-08	NULL

Table: Matches			
Id	Home_Team_Id	Away_Team_Id	Played_Date
1	1	2	2020-01-05
2	2	1	2020-02-22
3	2	1	2020-05-03
4	3	4	2020-04-28
5	3	4	2020-06-10
6	4	3	2020-07-17
7	5	6	2020-08-01
8	6	7	2020-09-27
9	7	1	2020-10-29

10	2	5	2020-11-11
11	6	7	2020-03-15

Table: Goals				
Id	Player_Id	Match_Id	Body_Part_Used	Scored_At
1	1	1	Head	2020-01-05 18:45:00
2	1	1	Left Foot	2020-01-05 18:55:00
3	1	1	Head	2020-01-05 19:15:00
4	1	3	Right Foot	2020-05-03 17:05:00
5	1	3	Head	2020-05-03 17:30:00
6	2	2	Right Foot	2020-02-22 20:01:00
7	3	1	Head	2020-01-05 18:51:00
8	3	2	Head	2020-02-22 20:21:00
9	3	2	Right Foot	2020-02-22 20:31:00
10	4	4	Head	2020-04-28 20:05:00
11	4	4	Head	2020-04-28 19:57:00
12	4	6	Left Foot	2020-07-17 16:07:00
13	4	5	Left Foot	2020-06-10 15:27:00
14	6	4	Right Foot	2020-04-28 20:15:00
15	6	6	Left Foot	2020-07-17 16:19:00

Questions:

1. Write SQL to list all players with position 'Striker' who have scored less than 5 goals.
(EASY)

Expected Output:

Name	Goals Scored
Hari	3

Rita	2
Bishal	0

2. Write SQL to list all players with position 'Striker' who have scored 5 or more goals. **(EASY)**

Expected Output:

Name	Goals Scored
Ram	5

3. Write SQL to list all players who have scored less than 5 goals. **(EASY)**

Expected Output:

Name	Goals Scored
Sam	1
Hari	3
Sita	4
Gita	0
Rita	2
Bishal	0

4. Write SQL to list managers and their current club. **(EASY)**

Expected Output:

Manager_Name	Club_Name
Jose	Jhapa FC
Frank	N/A
Pep	Kathmandu FC
Jurgen	Bhaktapur FC
Emma	Bhaktapur Women FC
Sonia	Banepa Women FC

5. Write SQL to list the club and their current manager. **(EASY)**

Expected Output:

Manager_Name	Club_Name
Jose	Jhapa FC
Pep	Kathmandu FC
Jurgen	Bhaktapur FC
Emma	Bhaktapur Women FC
Sonia	Banepa Women FC
N/A	FC Lalitpur
N/A	FC Chitwan

6. Write SQL to list the combination of the current club and their current manager. (**EASY**)

Expected Output:

Manager_Name	Club_Name
Jose	Jhapa FC
Frank	N/A
Pep	Kathmandu FC
Jurgen	Bhaktapur FC
Emma	Bhaktapur Women FC
Sonia	Banepa Women FC
N/A	FC Lalitpur
N/A	FC Chitwan

7. Write SQL to list all players' names who scored 2 or more goals with Head and at least 1 goal with any foot. (**MEDIUM**)

Expected Output:

Name
Ram
Hari

Sita

8. Write SQL to list all players names who scored 2 or more goals with Head and at least 1 goal with left foot. (**MEDIUM**)

Expected Output:

Name
Ram
Sita

9. Write SQL to list all players' names who scored 2 or more goals with Head and at least 1 goal with right foot. (**MEDIUM**)

Expected Output:

Name
Ram
Hari

10. Write SQL to count goals scored in each month. (**MEDIUM**)

Expected Output:

Month	Goals_Scored
January	4
February	3
March	0
April	3
May	2
June	1
July	2
August	0
September	0
October	0
November	0

December	0
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11. Write SQL to count the number of times any two teams have played against each other if they have played at least once. (**HARD**)

Expected Output: (Club_A and Club_B is exchangeable)

Club_A	Club_B	Game_Count
Kathmandu FC	FC Lalitpur	3
Kathmandu FC	Jhapa FC	1
FC Lalitpur	Bhaktapur FC	1
Bhaktapur Women FC	Banepa Women FC	3
Bhaktapur FC	FC Chitwan	1
FC Chitwan	Jhapa FC	2

12. For each month, get the difference between the number of total goals scored between that month and previous month. Hint: Use LAG (**HARD**)

Expected Output:

Month	Goals_Scored	Goals_Scored_Prev_Month	Difference
January	4	N/A	4
February	3	4	-1
March	0	3	-3
April	3	0	3
May	2	3	-1
June	1	2	-1
July	2	1	1
August	0	2	-2
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0

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July	2	1	1
August	0	2	-2
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0