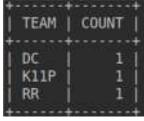
Birla Institute of Technology & Science, Pilani, K. K. BIRLA Goa campus Database Systems (CS F212) Second Semester 2019-2020 Lab-5 Exercise: To study JOINS and SET Operations in SQL

- 1. (A) Write a SQL query to list ALL Player IDs (*Information Table*) and their respective teams using keyword LEFT JOIN.
 - (B) Perform the same task as in part A by using keyword RIGHT JOIN.

PLAYER_ID	TEAM	
11206	CSK	
12816	CSK	
13715	CSK	
27611	CSK	
89618	CSK	
22302	MI	
23816	MI	
38398	MI	
39984	MI	
48550	MI I	
44968	MI	
59965	MI	
73944	MI	
74987	MI	
84606	MI	
87483	MI	
50350	SRH	
82935	SRH	
99978	SRH	
22535	DC	
26549	K11P	
18271	KKR	
37519	KKR	
64549	RR	
25264	RCB	
82464	RCB	

(Expected Output)

2. Write a SQL Query to display those Team Names which have the least number of players in the Information table along with the number of players in these teams.



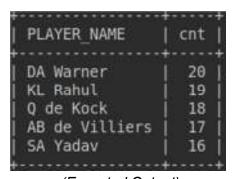
(Expected Output)

3. Write a SQL query to list ALL Player Names (from PLAYERS Table) and their respective ROLE_IDs using keyword NATURAL JOIN. ?

PLAYER_NAME	ROLE_ID
S Smith	101
BA Stokes	182
CA Lynn	103
0 de Kock	184
SA Yadav	103
DA Warner	103
AB de Villiers	184
KD Karthik	101
PA Patel	102
N Pooran	101
SK Raina	102
AT Rayudu	102
Mohammad Nabi	102
MS Dhoni	104
KH Pandya	101
L Malinga	101
C Gayle	103
KL Rahul	103
PP Shaw	102
SR Watson	102
KA Pollard	101

(Expected Output)

4. Write a SQL Query to display top 5 run scorer and the number for players who scored less than them.(Use Cross Join)

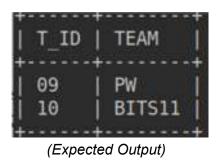


(Expected Output)

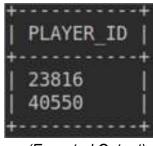
5. Write a SQL Query to display maximum runs scored by a batsman and maximum wickets taken by a bowler without using OR predicate. (Hint: Union)



6. Write a SQL Query to display the names of Teams which do not have any players in the Information table using LEFT JOIN. (Concept: MINUS)



7. Write a SQL Query to display Player ID's of Bowlers with an active contract using INNER JOIN. (Concept: INTERSECT)



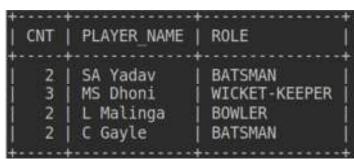
(Expected Output)

8. Write a SQL Query to Display the Player Name, Role and maximum runs scored by player for each Playing Role.

PLAYER_NAME	ROLE	RUNS
S Smith	BOWLER	282
Q de Kock	WICKET-KEEPER	529
DA Warner	BATSMAN	692
SR Watson	ALL-ROUNDER	398

(Expected Output)

9. Write a SQL Query to display the names, roles of those players who have been contracted by more than one team in their career along with the number of contracts using keyword join.



(Expected Output)

Note:

A player is considered game changer if he meets both the following 2 conditions:

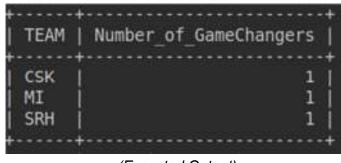
- 1.a. Grade = "01" and AWARDS > 1
- 1.b. Grade ="02" and AWARDS > 4
- 1.c. Grade ="03" and AWARDS > 7
- 1.d. Grade ="04" and AWARDS > 10

2. Role should be Batsman or Bowler.

For a Batsman you will consider runs scored by him to know the grade .

For a Bowler you will consider the wickets taken by him to know the grade . Information regarding grades is given in Table PLAYER_GRADE. For example if a Batsman has scored 231 runs then he will fall into grade 02 since 231>=200 and 231<300.

10. Write a SQL Query to display the number of game changer player in each team if there is any.



(Expected Output)