SQL JOINS QUERIES

```
library(RMySQL)
```

```
## Warning: le package 'RMySQL' a été compilé avec la version R 4.1.3
```

```
## Le chargement a nécessité le package : DBI
```

```
## Warning: le package 'DBI' a été compilé avec la version R 4.1.1
```

```
library(bslib)
```

```
## Warning: le package 'bslib' a été compilé avec la version R 4.1.3
```

```
##
## Attachement du package : 'bslib'
```

```
## L'objet suivant est masqué depuis 'package:utils':
##
##     page
```

From the following tables, write a SQL query to find the venue where EURO cup 2016 final match held. Return venue name, city.

```
dbGetQuery(bd, "select
                    s.venue_name,
                  v.city
                from stade s
                join match_mast m using (venue_id)
                join ville v on v.city_id = s.city_id
                where play_stage = 'F'")
```

venue_name	city
<chr>	<chr>
Stade de France	Saint-Denis

1 row

From the following tables, write a SQL query to find the number of goal scored by each team in every match within normal play schedule. Return match number, country name and goal score.

```
dbGetQuery(bd, "select
                    match_no,
                    country_name,
                    goal_score
                from pays p
                join match_details md
                    on p.country_id = md.team_id
                where decided_by ='N'
                order by country_name AND match_no")
```

match_no	country_name	goal_score
<int>	<chr>	<int>
25	Albania	1
15	Albania	0
2	Albania	0
33	Austria	1
24	Austria	0
11	Austria	0
46	Belgium	1
42	Belgium	4
36	Belgium	1
22	Belgium	3

1-10 of 96 rows Previous **1** 2 3 4 5 6 … 10 Next

From the following tables, write a SQL query to count the number of goals scored by each player within normal play schedule. Group the result set on player name and country name and sorts the result-set according to the highest to the lowest scorer. Return player name, number of goals and country name

```
dbGetQuery(bd, "Select
                    pm.player_name,
                  count(*) as 'number of goals',
                  p.country_name
                from player_mast pm
                join goal_details gd
                    using (player_id)
                join pays p
                    on p.country_id = pm.team_id
                where goal_schedule = 'NT'
```

```
                group by player_name
                order by count(*) desc;")
```

player_name	number of goals	country_name
<chr>	<dbl>	<chr>
Antoine Griezmann	5	France
Olivier Giroud	3	France
Cristiano Ronaldo	3	Portugal
Nani	3	Portugal
Alvaro Morata	3	Spain
Gareth Bale	3	Wales
Birkir Bjarnason	2	Iceland
Dimitri Payet	2	France
Radja Nainggolan	2	Belgium
Romelu Lukaku	2	Belgium

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From the following tables, write a SQL query to find the scorer in the final of EURO cup 2016. Return player name, jersey number and country name.

```
dbGetQuery(bd, "Select
                  pm.player_name,
                  pm.jersey_no,
                  p.country_name
                from player_mast pm
                join goal_details gd
                    using (player_id)
                join pays p
                    on p.country_id = pm.team_id
                where play_stage = 'F';")
```

player_name	jersey_no	country_name
<chr>	<int>	<chr>
Eder	9	Portugal

1 row

From the following tables, write a SQL query to find the country where Football EURO cup 2016 held. Return country name.

```
dbGetQuery(bd, "select
                  city,
                    country_name
                from pays p
```

```
                join ville v
                    using (country_id)
                join stade s
                    on s.city_id = v.city_id")
```

city	country_name
<chr>	<chr>
Toulouse	France
Saint-Etienne	France
Saint-Denis	France
Paris	France
Nice	France
Marseille	France
Lyon	France
Lille	France
Lens	France
Bordeaux	France

1-10 of 10 rows

From the following tables, write a SQL query to find the player who scored first goal of EURO cup 2016. Return player_name, jersey_no, country_name, goal_time, play_stage, goal_schedule, goal_half.

```
dbGetQuery(bd, "select
                      player_name,
                    jersey_no,
                    country_name,
                    goal_time,
                    play_stage,
                    goal_schedule,
                    goal_half
                from goal_details
                join player_mast pm
                    using (player_id)
                join pays p
                    on p.country_id = pm.team_id
                where match_no = '1'
                order by goal_time
                limit 1;")
```

player_name	jersey_no	country_name	goal_time	play_stage	goal_schedule
<chr>	<int>	<chr>	<int>	<chr>	<chr>
Olivier Giroud	9	France	57	G	NT

1 row

From the following tables, write a SQL query to find the referee who managed the opening match. Return referee name, country name.

```
dbGetQuery(bd, "select
                      referee_name,
                    country_name
                from match_mast mm
                join referee_mast rm
                    using (referee_id)
                join pays p
                    using (country_id)
                where match_no = '1';")
```

referee_name	country_name
<chr>	<chr>
Viktor Kassai	Hungary

1 row

From the following tables, write a SQL query to find the referee who managed the final match. Return referee name, country name.

```
dbGetQuery(bd, "select
                      referee_name,
                    country_name
                from match_mast mm
                join referee_mast rm
                    using (referee_id)
                join pays p
                    using (country_id)
                where match_no = '51'")
```

referee_name	country_name
<chr>	<chr>
Mark Clattenburg	England

1 row

From the following tables, write a SQL query to find the referee who assisted the referee in the opening match. Return associated referee name, country name.

```
dbGetQuery(bd, "select
                      ass_ref_name,
                    country_name
```

```
                from match_details md
                join asst_referee ar
                    on md.ass_ref = ar.ass_ref_id
                join pays p
                    using (country_id)
                where match_no = '1'")
```

ass_ref_name <chr>	country_name <chr>
Vencel Toth	Hungary
Gyorgy Ring	Hungary

2 rows

From the following tables, write a SQL query to find the referee who assisted the referee in the final match. Return associated referee name, country name.

```
dbGetQuery(bd, "select
                      ass_ref_name,
                    country_name
                from match_details md
                join asst_referee ar
                    on md.ass_ref = ar.ass_ref_id
                join pays p
                    using (country_id)
                where match_no = '51'")
```

ass_ref_name <chr>	country_name <chr>
Jake Collin	England
Simon Beck	England

2 rows

From the following tables, write a SQL query to find the city where the opening match of EURO cup 2016 played. Return venue name, city.

```
dbGetQuery(bd, "Select
                      venue_name,
                    city
                from match_mast
                join stade
                    using (venue_id)
                join ville
                    using (city_id)
                where match_no = '1'")
```

venue_name	city
<chr>	<chr>
Stade de France	Saint-Denis

1 row

From the following tables, write a SQL query to find the stadium hosted the final match of EURO cup 2016. Return venue_name, city, aud_capacity, audience.

```
dbGetQuery(bd, "Select
                      venue_name,
                    city,
                    aud_capacity,
                    audence
                from match_mast
                join stade
                    using (venue_id)
                join ville
                    using (city_id)
                where match_no = '51'")
```

venue_name	city	aud_capacity	audence
<chr>	<chr>	<int>	<int>
Stade de France	Saint-Denis	80100	75868

1 row

From the following tables, write a SQL query to count the number of matches played in each venue.Sort the result-set on venue name. Return Venue name, city, and number of matches

```
dbGetQuery(bd, "select
                      venue_name,
                    city,
                    count(*) as 'number of matches'
                from match_mast mm
                join stade
                    using (venue_id)
                join ville v
                    using (city_id)
                group by venue_name
                order by count(*) desc")
```

venue_name	city	number of matches
<chr>	<chr>	<dbl>

Stade de France	Saint-Denis	7
Stade VElodrome	Marseille	6
Stade Pierre Mauroy	Lille	6
Stade de Lyon	Lyon	6
Stade de Bordeaux	Bordeaux	5
Parc des Princes	Paris	5
Stade Bollaert-Delelis	Lens	4
Stade de Nice	Nice	4
Stadium de Toulouse	Toulouse	4
Stade Geoffroy Guichard	Saint-Etienne	4

1-10 of 10 rows

From the following tables, write a SQL query to find the player who was the first player to be sent off at the tournament EURO cup 2016. Return match Number, country name and player name.

```
dbGetQuery(bd, "select
                      pb.match_no,
                    country_name,
                    player_name
                from player_booked pb
                join player_mast pm
                    using (player_id)
                join pays p
                    on p.country_id = pm.team_id
                where pb.match_no = '1'
                and sent_off = 'Y'
                order by booking_time desc
                limit 1")
```

match_no	country_name	player_name
<int>	<chr>	<chr>
1	France	Olivier Giroud

1 row

From the following tables, write a SQL query to find those teams that scored only one goal to the tournament. Return country_name as “Team”, team in the group, goal_for.

```
dbGetQuery(bd, "select
                      team_group,
                    goal_for,
                    country_name
                from team t
                join pays p
```

```
                    on t.team_id = p.country_id
                where goal_for = '1'
                group by country_name")
```

team_group	goal_for	country_name
<chr>	<int>	<chr>
A	1	Albania
F	1	Austria
E	1	Sweden

3 rows

From the following tables, write a SQL query to count the yellow cards received by each country. Return country name and number of yellow cards.

```
dbGetQuery(bd, "select
                      country_name,
                    count(*) as 'number of yellow cards'
                from player_booked pb
                join pays p
                    on p.country_id = pb.team_id
                group by country_name
                order by count(*) desc")
```

country_name	number of yellow cards
<chr>	<dbl>
Italy	16
France	13
Portugal	13
Hungary	12
Iceland	12
Wales	11
Germany	11
Romania	10
Albania	10
Poland	10

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From the following tables, write a SQL query to count number of goals that has seen. Return venue name and number of goals.

```
dbGetQuery(bd, "select
                      venue_name,
                    count(venue_name)
```

```
                from goal_details gd
                join match_mast mm
                    using (match_no)
                join stade s
                    using(venue_id)
                group by venue_name
                order by count(*) desc")
```

venue_name	count(venue_name)
<chr>	<dbl>
Stade de France	18
Stade de Lyon	16
Stade de Bordeaux	13
Stade Pierre Mauroy	13
Stade VElodrome	11
Stadium de Toulouse	9
Stade de Nice	8
Stade Geoffroy Guichard	8
Stade Bollaert-Delelis	7
Parc des Princes	5

1-10 of 10 rows

From the following tables, write a SQL query to find the match where no stoppage time added in first half of play. Return match number, country name.

```
dbGetQuery(bd, "select
                      match_no,
                    country_name
                from match_mast mm
                join match_details md
                    using (match_no)
                join pays p
                    on p.country_id = md.team_id
                where stop1_sec = '0'")
```

match_no	country_name
<int>	<chr>
4	England
4	Russia

2 rows

From the following tables : team & pays, write a SQL query to find the team(s) who conceded the most goals in EURO cup 2016. Return country name, team group and

match played.

```
dbGetQuery(bd, "SELECT country_name,
                       team_group,
                       match_played,
                       goal_agnst
                FROM team st
                JOIN pays sc
                  on st.team_id = sc.country_id
                ORDER BY goal_agnst desc
                LIMIT 3")
```

country_name	team_group	match_played	goal_agnst
<chr>	<chr>	<int>	<int>
Russia	B	3	6
Czech Republic	D	3	5
Ukraine	C	3	5

3 rows

From the following tables : match_details, match mast & pays, write a SQL query to find those matches where the highest stoppage time was added in 2nd half of play. Return match number, country name, stoppage time(sec.). Go to the editor

```
dbGetQuery(bd, "SELECT md.match_no,
                       sc.country_name,
                       stop2_sec as 'stoppage_time_sec'
                FROM match_mast mm
                JOIN match_details md
                  ON mm.match_no=md.match_no
                JOIN pays sc
                  ON md.team_id=sc.country_id
                ORDER BY stop2_sec desc
                LIMIT 2")
```

match_no	country_name	stoppage_time_sec
<int>	<chr>	<int>
17	Ukraine	411
17	Northern Ireland	411

2 rows

From the following tables : match_details & pays, write a SQL query to find the matches that ended in a goalless draw at the group stage. Return match number, country name.

```
dbGetQuery(bd, "SELECT match_no,
                      country_name
                FROM match_details md
                JOIN pays p
                  ON p.country_id=md.team_id
                WHERE win_lose='D'
                  AND goal_score=0
                  AND play_stage='G'
                ORDER BY match_no;")
```

match_no	country_name
<int>	<chr>
18	Germany
18	Poland
24	Austria
24	Portugal
26	France
26	Switzerland
28	England
28	Slovakia

8 rows

From the following tables : player_mast, match_details & pays. write a SQL query to find the number of matches played by a player as a goalkeeper for his team. Return country name, player name, number of matches played as a goalkeeper.

```
dbGetQuery(bd, "SELECT country_name,
                      player_name,
                      count(player_gk)
                FROM match_details md
                JOIN pays p
                  ON md.team_id=p.country_id
                JOIN player_mast pm
                  ON md.player_gk=pm.player_id
                GROUP BY p.country_name, pm.player_name
                ORDER BY count(player_gk) DESC")
```

country_name	player_name	count(player_gk)
<chr>	<chr>	<dbl>
France	Hugo Lloris	7
Portugal	Rui Patricio	7
Germany	Manuel Neuer	6
Belgium	Thibaut Courtois	5

Iceland	Hannes Halldorsson	5
Wales	Wayne Hennessey	5
Croatia	Danijel SubaSic	4
England	Joe Hart	4
Hungary	Gabor Kiraly	4
Italy	Gianluigi Buffon	4

1-10 of 27 rows Previous **1** 2 3 Next

From the following tables : player_mast & pays, write a SQL query to find the oldest player to have appeared in a EURO 2016 match. Return country name, player name, jersey number and age.

```
dbGetQuery(bd, "SELECT country_name,
                       player_name,
                       jersey_no,
                       age
                FROM pays p
                JOIN player_mast pm
                  ON p.country_id=pm.team_id
                ORDER BY age DESC
                LIMIT 2")
```

country_name <chr>	player_name <chr>	jersey_no <int>	age <int>
Republic of Ireland	Shay Given	16	40
Hungary	Gabor Kiraly	1	40

2 rows

From the following tables : match_details & pays, write a SQL query to find the teams in this tournament that have scored three goals in a single game. Return match number and country name.

```
dbGetQuery(bd, "SELECT country_name,
                       match_no
                FROM match_details md
                JOIN pays p
                  ON p.country_id=md.team_id
                WHERE goal_score=3")
```

country_name <chr>	match_no <int>
Belgium	22
Germany	41
Hungary	34

Portugal	34
Spain	21
Wales	46
Wales	27

7 rows

From the following tables : team & pays, write a SQL query to find which teams finished at the bottom of their respective groups after conceding four goals in three games. Return country name, team group and match played.

```
dbGetQuery(bd, "SELECT country_name,
                       team_group,
                       match_played
                FROM pays p
                JOIN team t
                  ON p.country_id=t.team_id
                WHERE goal_agnst=4
                  AND group_position=4")
```

country_name	team_group	match_played
<chr>	<chr>	<int>
Austria	F	3
Romania	A	3

2 rows

From the following tables : pays & match_details, write a SQL query to find the final four teams in the tournament. Return country name.

```
dbGetQuery(bd, "SELECT country_name,
                       win_lose
                FROM match_details md
                JOIN pays p
                  ON md.team_id=p.country_id
                WHERE play_stage='S';")
```

country_name	win_lose
<chr>	<chr>
France	W
Germany	L
Portugal	W
Wales	L

4 rows