Basic Queries

Libraries

```
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
```

1. From the following table : stade, write a SQL query to count the number of venues for EURO cup 2016. Return number of venues.

```
dbGetQuery(df, "SELECT count(venue_name) as 'number of venue'
                FROM stade")
```

number of venue
10

1 row

2. From the following table : player_mast, write a SQL query to count the number of countries that participated in the 2016-EURO Cup

```
dbGetQuery(df, "SELECT count(distinct(team_id)) as 'number of countries'
                FROM player_mast")
```

number of countries
24

1 row

3. From the following table : goal_details, write a SQL query to find the number of goals scored within normal play during the EURO cup 2016

```
dbGetQuery(df, "SELECT count(goal_id) as 'goals scored within normal play'
                FROM goal_details")
```

goals scored within normal play
108

1 row

4. From the following table : match_mast, write a SQL query to find the number of matches that ended with a result.

```
dbGetQuery(df, "SELECT count(results) as 'matches'
                FROM match_mast
                WHERE results = 'WIN'")
```

matches
40

1 row

5. From the following table : match_mast, write a SQL query to find the number of matches that ended in draws.

```
dbGetQuery(df, "SELECT count(results) as 'matches end in draws'
                FROM match_mast
                WHERE results = 'DRAW'")
```

matches end in draws
11

1 row

6. From the following table : match_mast, write a SQL query to find out when the Football EURO cup 2016 will begin.

```
dbGetQuery(df, "SELECT play_date as 'begin date'
                FROM match_mast
                WHERE match_no = 1")
```

begin date
2016-06-11

1 row

7. From the following table : goal_details, write a SQL query to find the number of self-goals scored during the 2016 European Championship.

```
dbGetQuery(df, "SELECT count(*) as 'self-goals scored'
                FROM goal_details
                WHERE goal_type = 'O'")
```

self-goals scored
3

1 row

8. From the following table : match_mast, write a SQL query to count the number of matches ended with a win results in-group stage.

```
dbGetQuery(df, "SELECT count(*) as 'win matches'
                FROM match_mast
                WHERE play_stage = 'G' AND results = 'WIN'")
```

win matches
25

1 row

9. From the following table : penalty_shootout, write a SQL query to find the number of matches that resulted in a penalty shootout

```
dbGetQuery(df, "SELECT count(distinct(match_no)) as 'matches that resulted in a penalty shootout'
                FROM penalty_shootout")
```

matches that resulted in a penalty shootout
3

1 row

10. From the following table : match_mast, write a SQL query to find number of matches decided by penalties in the Round 16.

```
dbGetQuery(df, "SELECT count(distinct(match_no)) as 'matches decided by penalties in the Round 16'
                FROM match_mast
                WHERE play_stage = 'R' AND decided_by = 'P'")
```

matches decided by penalties in the Round 16
1

1 row

11. From the following table : goal_details, write a SQL query to find the number of goals scored in every match within a normal play schedule. Sort the result-set on match number. Return match number, number of goal scored.

```
dbGetQuery(df, "SELECT match_no,
                       count(goal_id) as 'number of goal scored'
                FROM goal_details
                GROUP BY match_no
                ORDER BY match_no")
```

match_no	number of goal scored
1	3
2	1
3	3
4	2
5	1
6	1
7	2
8	1
9	2
10	2

1-10 of 47 rows Previous 1 2 3 4 5 Next

12. From the following table : match_mast, write a SQL query to find the matches in which no stoppage time was added during the first half of play. Return match no, date of play, and goal scored.

```
dbGetQuery(df, "SELECT match_no,
                       play_date,
                       goal_score
                FROM match_mast
                WHERE stops1_sec = 0")
```

match_no	play_date	goal_score
4	2016-06-12	1-1

1 row

13. From the following table : match_details, write a SQL query to count the number of matches that ended in a goalless draw at the group stage. Return number of matches.

```
dbGetQuery(df, "SELECT count(distinct(match_no)) as 'number of matches that ended in a goalless dr
                FROM match_details
                WHERE play_stage = 'G' AND win_lose = 'D' AND goal_score = 0")
```

number of matches that ended in a goalless draw
4

1 row

14. From the following table : match_details, write a SQL query to calculate the number of matches that ended in a single goal win, excluding matches decided by penalty shootouts. Return number of matches.

```
dbGetQuery(df, "SELECT count(distinct(match_no)) as 'number of matches that ended in a single goal
                FROM match_details
                WHERE win_lose = 'W' AND goal_score = 1 AND decided_by != 'P'")
```

number of matches that ended in a single goal win
13

1 row

15. From the following table : player_in_out, write a SQL query to count the number of players replaced in the tournament. Return number of players as "Player Replaced".

```
dbGetQuery(df, "SELECT count(player_id) as 'Player Replaced'
                FROM player_in_out
                WHERE in_out = 'I'")
```

Player Replaced
293

1 row

16. From the following table : player_in_out, write a SQL query to count the total number of players replaced during normal playtime. Return number of players as "Player Replaced".

```
dbGetQuery(df, "SELECT  count(player_id) as 'Player Replaced'
                FROM player_in_out
                WHERE in_out ='I' AND play_schedule = 'NT'")
```

Player Replaced
275

1 row

17. From the following table : player_in_out, write a SQL query to count the number of players who were replaced during the stoppage time. Return number of players as "Player Replaced".

```
dbGetQuery(df, "SELECT  count(player_id) as 'Player Replaced'
                FROM player_in_out
                WHERE in_out ='I' AND play_schedule = 'ST'")
```

Player Replaced
9

1 row

18. From the following table : player_in_out, write a SQL query to count the number of players who were replaced during the first half. Return number of players as "Player Replaced".

```
dbGetQuery(df, "SELECT  count(player_id) as 'Player Replaced'
                FROM player_in_out
                WHERE in_out ='I' AND play_schedule='NT' AND play_half = '1'")
```

Player Replaced
3

1 row

19. From the following table : match_details, write a SQL query to count the total number of goalless draws played in the entire tournament. Return number of goalless draws

```
dbGetQuery(df, "SELECT count(distinct(match_no)) as 'number of matches that ended in a goalless dr
                FROM match_details
                WHERE win_lose = 'D' AND goal_score = 0")
```

number of matches that ended in a goalless draw in the entire tournament
4

1 row

20. From the following table : player_in_out, write a SQL query to calculate the total number of players who were replaced during the extra time.

```
dbGetQuery(df, "SELECT  count(player_id) as 'Player Replaced'
                FROM player_in_out
                WHERE in_out='I' AND play_schedule='ET'")
```

Player Replaced
9

1 row

21. From the following table : player_in_out, write a SQL query to count the number of substitutes during various stages of the tournament. Sort the result-set in ascending order by play-half, play-schedule and number of substitute happened. Return play-half, play-schedule, number of substitute happened.

```
dbGetQuery(df, "SELECT count(*),play_half, play_schedule
                FROM player_in_out
                WHERE in_out ='I'
                GROUP BY play_half, play_schedule
                ORDER BY play_half, play_schedule, count(*) DESC")
```

count(*)	play_half	play_schedule
4	1	ET
3	1	NT
5	2	ET
272	2	NT
9	2	ST

5 rows

22. From the following table : penalty_shootout, write a SQL query to count the number of shots taken in penalty shootouts matches. Number of shots as "Number of Penalty Kicks", match_no.

```
dbGetQuery(df, "SELECT count(*) as 'Number of Penalty Kicks', match_no
                FROM penalty_shootout
                GROUP BY match_no")
```

Number of Penalty Kicks	match_no
10	37
9	45
18	47

3 rows

23. From the following table : penalty_shootout, write a SQL query to count the number of shots that were scored in penalty shootouts matches. Return number of shots scored goal as "Goal Scored by Penalty Kicks".

```
dbGetQuery(df, "SELECT count(*) as 'Goal Scored by Penalty Kicks'
                FROM penalty_shootout
                WHERE score_goal = 'Y'")
```

Goal Scored by Penalty Kicks
28

1 row

24. From the following table : penalty_shootout, write a SQL query to count the number of shots missed or saved in penalty shootout matches. Return number of shots missed as "Goal missed or saved by Penalty Kicks".

```
dbGetQuery(df, "SELECT count(*) as 'Goal missed or saved by Penalty Kicks'
                FROM penalty_shootout
                WHERE score_goal = 'N'")
```

Goal missed or saved by Penalty Kicks
9

1 row

25. From the following table : player_booked, write a SQL query to count the number of bookings in each half of play within the normal play schedule. Return play_half, play_schedule, number of booking happened.

```
dbGetQuery(df, "SELECT count(*), play_half
                FROM player_booked
                WHERE play_schedule = 'NT'
                GROUP BY play_half")
```

count(*)	play_half
61	1
123	2

2 rows

26. From the following table : player_booked, write a SQL query to count the number of bookings during stoppage time.

```
dbGetQuery(df, "SELECT count(*) as 'number of bookings during stoppage time'
                FROM player_booked
                WHERE play_schedule = 'ST'")
```

number of bookings during stoppage time
10

1 row

27. From the following table : player_booked, write a SQL query to count the number of bookings that happened in extra time.

```
dbGetQuery(df, "SELECT count(*) as 'number of bookings during extra time'
                FROM player_booked
                WHERE play_schedule = 'ET'")
```

number of bookings during extra time
7

1 row