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
<dbl>
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
<dbl>
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
<dbl>
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
<dbl>
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
<dbl>
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
<chr>
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
<dbl>
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
<dbl>
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
<dbl>
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
<dbl>
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 <int>
1
2
3
4
5
6
7
8
9
10

1-10 of 47 rows | 1-1 of 2 columns Previous 1 2 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 stop1_sec = 0")
```

match_no <int>
4

1 row | 1-1 of 3 columns

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 draw'
            FROM match_details
            WHERE play_stage = 'G' AND win_lose = 'D' AND goal_score = 0")
```

number of matches that ended in a goalless draw <dbl>
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 win'
            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 <dbl>
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 <dbl>
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
<dbl>
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
<dbl>
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
<dbl>
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 draw in the entire tournament'
            FROM match_details
            WHERE win_lose = 'D' AND goal_score = 0")
```

number of matches that ended in a goalless draw in the entire tournament
<dbl>
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
<dbl>
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(*) <dbl>
4
3
5
272
9

5 rows | 1-1 of 3 columns

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".

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

Number of Penalty Kicks <dbl>
10
9
18

3 rows | 1-1 of 2 columns

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 <dbl>
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 <dbl>
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(*) <dbl>
61
123

2 rows | 1-1 of 2 columns

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 <dbl>
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 <dbl>
7

1 row