Soccer DataBase Question and Solution

Create database to store the soccer data

```
Create database soccerdb;
use soccerdb;
```

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

```
SELECT COUNT(*)
FROM soccer_venue;
```

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

```
SELECT COUNT(DISTINCT team_id)
FROM player_mast;
```

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

```
SELECT COUNT(*)
FROM goal_details;
```

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

```
SELECT COUNT(*)
FROM match_mast
WHERE results='WIN';
```

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

```
SELECT COUNT(*)
FROM match_mast
WHERE results='DRAW';
```

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

```
SELECT play_date as "Beginning Date"
FROM match_mast
WHERE match_no=1;
```

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

```
SELECT COUNT(*)
FROM goal_details
```

```
WHERE goal_type='O';
```

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

```
SELECT COUNT(*) as "Player Replaced"
FROM player_in_out
WHERE in_out='I' AND play_schedule='ST';
```

9. From the following table, 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.

```
SELECT play_half, play_schedule, COUNT()
FROM player_in_out
WHERE in_out='I'
GROUP BY play_half, play_schedule
ORDER BY play_half, play_schedule, COUNT() DESC;
```

10. From the following table, write a SQL query to count the number of penalty shots taken by each team. Return country name, number of shots as "Number of Shots".

```
SELECT a.country_name, COUNT(b.*) as "Number of Shots"
FROM soccer_country a, penalty_shootout b
WHERE b.team_id = a.country_id
GROUP BY a.country_name;
```

11. From the following tables, write a SQL query to find the match number in which Germany played against Poland. Group the result set on match number. Return match number.

```
SELECT md.match_no
FROM match_details md
JOIN soccer_country sc ON md.team_id = sc.country_id
WHERE sc.country_name IN ('Germany', 'Poland')
GROUP BY md.match_no
HAVING COUNT(DISTINCT md.team_id) = 2;
```

12.From the following tables, write a SQL query to find the highest audience match. Return country name of the teams.

```
SELECT country_name
FROM soccer_country
WHERE country_id IN (
           SELECT team_id
           FROM goal_details
           WHERE match_no = (
                SELECT match_no
                FROM match_mast
                WHERE audence = (
                      SELECT max(audence)
                      FROM match_mast))
ORDER BY audence DESC);
```

13. From the following table, write a SQL query to find the second-highest stoppage time in the second half.

```
SELECT MAX(stop2_sec)
FROM match_mast
WHERE stop2_sec NOT IN (
              SELECT MAX(stop2_sec)
              FROM match_mast);
```

14. From the following table, write a SQL query to find the club, which supplied the most number of players to the 2016-EURO cup. Return club name, number of players.

```
SELECT playing_club, mycount
FROM (
    SELECT playing_club, COUNT(playing_club) mycount,
    RANK() OVER (ORDER BY COUNT(playing_club) DESC) rnk
    FROM player_mast
    GROUP BY playing_club) ranked
WHERE rnk = 1;
```

15. From the following tables, write a SQL query to find the player who scored the first penalty in the tournament. Return player name,Jersey number and country name.

```
SELECT pm.player_name, pm.jersey_no, sc.country_name
FROM player_mast pm
JOIN goal_details gd1 ON pm.player_id = gd1.player_id
JOIN soccer_country sc ON pm.team_id = sc.country_id
WHERE gd1.goal_type = 'P'
AND gd1.match_no = (
      SELECT MIN(gd2.match_no)
      FROM goal_details gd2
      WHERE gd2.goal_type = 'P' AND gd2.play_stage = 'G')
GROUP BY pm.player_name, pm.jersey_no, sc.country_name;
```

16. From the following table, write a SQL query to find the Liverpool players who were part of England's squad at the 2016 Euro Cup. Return player name, jersey number, and position to play, age.

```
SELECT player_name, jersey_no, posi_to_play, age
FROM player_mast
WHERE playing_club='Liverpool'
AND team_id=(
       SELECT country_id
       FROM soccer_country
       WHERE country_name='England');
```

17. From the following table, write a SQL query to find out who was the captain of Portugal's winning EURO cup 2016 team. Return the captain name.

```
SELECT player_name
FROM player_mast
WHERE player_id IN (
     SELECT player_captain
     FROM match_captain
     WHERE team_id=(
             SELECT team_id
```

```
            FROM match_details
            WHERE play_stage='F' AND win_lose='W'));
```

18. From the following tables, write a SQL query to find the runners-up in Football EURO cup 2016. Return country name.

```
SELECT country_name
FROM soccer_country
WHERE country_id=(
   SELECT team_id
   FROM match_details
   WHERE play_stage='F' AND win_lose='L'
   AND team_id<>(
          SELECT country_id
          FROM soccer_country
          WHERE country_name='Portugal'));
```