

# SQLZoo

Unofficial answers to sqlzoo exercises found here: [https://sqlzoo.net/wiki/The\\_JOIN\\_operation](https://sqlzoo.net/wiki/The_JOIN_operation)

## game

| id   | mdate        | stadium                   | team1 | team2 |
|------|--------------|---------------------------|-------|-------|
| 1001 | 8 June 2012  | National Stadium, Warsaw  | POL   | GRE   |
| 1002 | 8 June 2012  | Stadion Miejski (Wroclaw) | RUS   | CZE   |
| 1003 | 12 June 2012 | Stadion Miejski (Wroclaw) | GRE   | CZE   |
| 1004 | 12 June 2012 | National Stadium, Warsaw  | POL   | RUS   |
| ...  |              |                           |       |       |

## goal

| matchid | teamid | player               | gtime |
|---------|--------|----------------------|-------|
| 1001    | POL    | Robert Lewandowski   | 17    |
| 1001    | GRE    | Dimitris Salpingidis | 51    |
| 1002    | RUS    | Alan Dzagoev         | 15    |
| 1002    | RUS    | Roman Pavlyuchenko   | 82    |

## eteam

| id  | teamname       | coach            |
|-----|----------------|------------------|
| POL | Poland         | Franciszek Smuda |
| RUS | Russia         | Dick Advocaat    |
| CZE | Czech Republic | Michal Bilek     |
| GRE | Greece         | Fernando Santos  |

## JOIN

1. Modify it to show the matchid and player name for all goals scored by Germany. To identify German players, check for: teamid = 'GER'.

```
SELECT matchid, player FROM goal
WHERE teamid = 'GER';
```

2. Show id, stadium, team1, team2 for just game 1012.

```
SELECT id, stadium, team1, team2 FROM game
WHERE id = '1012';
```

3. Modify it to show the player, teamid, stadium and mdate for every German goal.

```
SELECT player, teamid, stadium, mdate FROM goal JOIN game ON(matchid = id)
WHERE teamid = 'GER';
```

4. Show the team1, team2 and player for every goal scored by a player called Mario.

```
SELECT team1, team2, player FROM goal JOIN game ON(matchid = id)
WHERE player LIKE 'Mario %';
```

5. Show player, teamid, coach, gtime for all goals scored in the first 10 minutes gtime<=10.

```
SELECT player, teamid, coach, gtime FROM goal JOIN eteam ON(teamid = id)
WHERE gtime <= 10;
```

6. List the the dates of the matches and the name of the team in which 'Fernando Santos' was the team1 coach.

```
SELECT mdate, teamname FROM game JOIN eteam ON (team1=eteam.id)
WHERE coach = 'Fernando Santos';
```

7. List the player for every goal scored in a game where the stadium was 'National Stadium, Warsaw'

```
SELECT player FROM goal JOIN game ON(matchid = id)
WHERE stadium = 'National Stadium, Warsaw';
```

8. Show the name of all players who scored a goal against Germany.

```
SELECT DISTINCT goal.player FROM goal JOIN game ON(id=matchid)
WHERE (team1 = 'GER' OR team2 = 'GER') AND teamid != 'GER';
```

9. Show teamname and the total number of goals scored.

```
SELECT teamname, COUNT(player) FROM eteam JOIN goal ON(id=teamid)
GROUP BY teamname;
```

10. Show the stadium and the number of goals scored in each stadium.

```
SELECT stadium, COUNT(player) FROM game JOIN goal ON(id=matchid)
GROUP BY stadium;
```

11. For every match involving 'POL', show the matchid, date and the number of goals scored.

```
SELECT matchid,mdate, team1, team2, teamid FROM game JOIN goal ON matchid = id
WHERE (team1 = 'POL' OR team2 = 'POL');
```

12. For every match where 'GER' scored, show matchid, match date and the number of goals scored by 'GER'.

```
SELECT matchid, mdate, COUNT(player) FROM goal JOIN game ON (matchid=id)
WHERE teamid = 'GER'
GROUP BY matchid, mdate;
```

13. List every match with the goals scored by each team as shown. This will use "CASE WHEN" which has not been explained in any previous exercises.

```
SELECT game.mdate, game.team1, SUM(CASE WHEN goal.teamid = game.team1 THEN 1
ELSE 0 END) AS score1, game.team2, SUM(CASE WHEN goal.teamid = game.team2 THEN
1 ELSE 0 END) AS score2 FROM game LEFT JOIN goal ON (game.id = goal.matchid)
GROUP BY game.mdate, game.team1, game.team2
ORDER BY game.mdate, goal.matchid, game.team1, game.team2
```