

1.

The first example shows the goal scored by a player with the last name 'Bender'. The \* says to list all the columns in the table - a shorter way of saying matchid, teamid, player, gtime

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';
```

Correct answer

```
matchid player
1008 Mario Gómez
1010 Mario Gómez
1010 Mario Gómez
1012 Lukas Podolski
1012 Lars Bender
1026 Philipp Lahm
1026 Sami Khedira
1026 Miroslav Klose
1026 Marco Reus
1030 Mesut Özil
```

2.

From the previous query you can see that Lars Bender's scored a goal in game 1012. Now we want to know what teams were playing in that match.

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

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

Correct answer

```
id stadium team1 team2
1012 Arena Lviv DEN GER
```

3.

You can combine the two steps into a single query with a JOIN.

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

```
select player , teamid , stadium ,mdate from game
join goal on goal.matchid = game.id where teamid = 'ger'
```

Correct answer

```
player teamid stadium mdate
Mario Gómez GER Arena Lviv 9 June 2012
Mario Gómez GER Metalist Stadium 13 June 2012
Mario Gómez GER Metalist Stadium 13 June 2012
Lukas Podolski GER Arena Lviv 17 June 2012
Lars Bender GER Arena Lviv 17 June 2012
Philipp Lahm GER PGE Arena Gdansk 22 June 2012
Sami Khedira GER PGE Arena Gdansk 22 June 2012
Miroslav Klose GER PGE Arena Gdansk 22 June 2012
Marco Reus GER PGE Arena Gdansk 22 June 2012
Mesut Özil GER National Stadium, Warsaw 28 June 2012
```

4.

Show the team1, team2 and player for every goal scored by a player called Mario player LIKE 'Mario%'

```
select team1, team2 , player from game
join goal on game.id = goal.matchid
where player LIKE 'Mario%';
```

Correct answer

```
team1 team2 player
GER POR Mario Gómez
NED GER Mario Gómez
NED GER Mario Gómez
IRL CRO Mario Mandžukic
IRL CRO Mario Mandžukic
ITA CRO Mario Mandžukic
ITA IRL Mario Balotelli
GER ITA Mario Balotelli
GER ITA Mario Balotelli
```

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 goal.teamid=eteam.id
WHERE gtime<=10
```

Correct answer

```
player teamid coach gtime
Petr Jiráček CZE Michal Bílek 3
Václav Pilar CZE Michal Bílek 6
Mario Mandžukic CRO Slaven Bilic 3
Fernando Torres ESP Vicente del Bosque 4
```

6.

List 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 game.team1 = eteam.id
where coach = 'Fernando Santos'
```

Correct answer

```
mdate teamname
12 June 2012 Greece
16 June 2012 Greece
```

7.

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

```
select player from game
join goal on game.id = goal.matchid
where stadium = 'National Stadium, Warsaw'
```

Correct answer

```
player
Robert Lewandowski
```

Dimitris Salpingidis  
Alan Dzagoev  
Jakub Blaszczykowski  
Giorgos Karagounis  
Cristiano Ronaldo  
Mario Balotelli  
Mario Balotelli  
Mesut Özil

8.

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

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

Correct answer

player  
Robin van Persie  
Michael Krohn-Dehli  
Georgios Samaras  
Dimitris Salpingidis  
Mario Balotelli

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 game.id = goal.matchid
GROUP BY stadium;
```

11.

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

```
SELECT matchid, mdate, COUNT(player) AS goals
FROM game JOIN goal ON game.id = goal.matchid
WHERE team1 = 'POL' OR team2 = 'POL'
GROUP BY matchid, mdate;
```

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 game
join goal on game.id = goal.matchid
where goal.teamid = 'ger'
group by matchid , mdate ;
```

13.

List every match with the goals scored by each team.

```
SELECT
mdate,
team1,
SUM(CASE WHEN goal.teamid = game.team1 THEN 1 ELSE 0 END) AS score1,
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 mdate, matchid, team1, team2
ORDER BY mdate, matchid, team1, team2;
```