

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'
```

Submit SQL

Restore default

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.

Notice in the that the column `matchid` in the `goal` table corresponds to the `id` column in the `game` table. We can look up information about game 1012 by finding that row in the **game** table.

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

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

Submit SQL

Restore default

### 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`.

```
SELECT *
FROM game JOIN goal ON (id=matchid)
```

The **FROM** clause says to merge data from the goal table with that from the game table. The **ON** says how to figure out which rows in **game** go with which rows in **goal** - the **matchid** from **goal** must match **id** from **game**. (If we wanted to be more clear/specific we could say

```
ON (game.id=goal.matchid)
```

The code below shows the player (from the goal) and stadium name (from the game table) for every goal scored.

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

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

Submit SQL

Restore default

### Correct answer

player	teamid	stadium	mdate
Mario Gómez	GER	Arena Lviv	2012-06-09T00:00:00
Mario Gómez	GER	Metalist Stadium	2012-06-13T00:00:00
Mario Gómez	GER	Metalist Stadium	2012-06-13T00:00:00
Lukas Podolski	GER	Arena Lviv	2012-06-17T00:00:00
Lars Bender	GER	Arena Lviv	2012-06-17T00:00:00
Philipp Lahm	GER	PGE Arena Gdansk	2012-06-22T00:00:00
Sami Khedira	GER	PGE Arena Gdansk	2012-06-22T00:00:00

4.



Use the same `JOIN` as in the previous question.

**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 (id=matchid)
WHERE player LIKE 'Mario%'
```

Submit SQL

Restore default

### 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

5. 😊

The table `eteam` gives details of every national team including the coach. You can `JOIN` `goal` to `eteam` using the phrase `goal JOIN eteam ON teamid=id`

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
```

Submit SQL

Restore default

### 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. 😊

To `JOIN` `game` with `eteam` you could use either

`game JOIN eteam ON (team1=eteam.id)` or `game JOIN eteam ON (team2=eteam.id)`

Notice that because `id` is a column name in both `game` and `eteam` you must specify `eteam.id` instead of just `id`

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 g
JOIN eteam e ON (e.id=g.team1)
WHERE coach = 'Fernando Santos'
```

Submit SQL

Restore default

### Correct answer

mdate	teamname
2012-06-12T00:00:00	Greece
2012-06-16T00:00:00	Greece

7.



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

```
SELECT player
FROM game g
JOIN goal ON (matchid=id)
WHERE stadium LIKE '%Warsaw%'
```

[Submit SQL](#)[Restore default](#)

### Correct answer

player
Dimitris Salpingidis
Robert Lewandowski
Jakub Blaszczykowski
Alan Dzagoev
Giorgos Karagounis
Cristiano Ronaldo
Mesut Özil

## More difficult questions

8.



The example query shows all goals scored in the Germany-Greece quarterfinal.

Instead show the **name** of all players who scored a goal against Germany.

*HINT*

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

[Submit SQL](#)[Restore default](#)

### Correct answer

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

9.



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

*COUNT and GROUP BY*

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

Submit SQL

Restore default

### Correct answer

teamname	
Croatia	4
Czech Republic	4
Denmark	4
England	5
France	3
Germany	10
Greece	5

10.



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

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

Submit SQL

Restore default

### Correct answer

stadium	
Arena Lviv	9
Donbass Arena	7
Metalist Stadium	7
National Stadium, Warsaw	9
Olimpiyskiy National Sports Complex	14
PGE Arena Gdansk	13
Stadion Miejski (Poznan)	8

11. 😊

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

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

Submit SQL

Restore default

Correct answer

matchid	mdate	score
1001	2012-06-08T00:00:00	2
1004	2012-06-12T00:00:00	2
1005	2012-06-16T00:00:00	1

12. 😊

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

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

Submit SQL

Restore default

Correct answer

matchid	mdate	score
1008	2012-06-09T00:00:00	1
1010	2012-06-13T00:00:00	2
1012	2012-06-17T00:00:00	2
1026	2012-06-22T00:00:00	4
1030	2012-06-28T00:00:00	1

# 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.

mdate	team1	score1	team2	score2
1 July 2012	ESP	4	ITA	0
10 June 2012	ESP	1	ITA	1
10 June 2012	IRL	1	CRO	3
...				

Notice in the query given every goal is listed. If it was a team1 goal then a 1 appears in score1, otherwise there is a 0. You could SUM this column to get a count of the goals scored by team1.

**Sort your result by mdate, matchid, team1 and team2.**

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

Submit SQL

Restore default

## Correct answer

mdate	team1	score1	team2	score2
2012-06-08T00:00:00	POL	1	GRE	1
2012-06-08T00:00:00	RUS	4	CZE	1
2012-06-09T00:00:00	NED	0	DEN	1
2012-06-09T00:00:00	GER	1	POR	0
2012-06-10T00:00:00	ESP	1	ITA	1
2012-06-10T00:00:00	IRL	1	CRO	3
2012-06-11T00:00:00	FRA	1	ENG	1