



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
...		

1. 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'
```

Output

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 Ju
...			

2. 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%'
```

Output

team1	team2	player
GER	POR	Mario Gómez
NED	GER	Mario Gómez
NED	GER	Mario Gómez
IRL	CRO	Mario Mandžukic
IRL	CRO	Mario Mandžukic
...		

3. Show player, teamid, coach, gtime for all goals scored in the first 10 minutes $gtime \leq 10$

```
SELECT player, teamid, coach, gtime
```

```
FROM goal JOIN eteam on teamid=id
```

```
WHERE gtime<=10
```

Output

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
...			

4. 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 (team1=etteam.id)
```

WHERE coach = 'Fernando Santos'

Output

mdate	teamname
12 June 2012	Greece
16 June 2012	Greece

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

SELECT player

FROM goal JOIN game on (id=matchid)

WHERE stadium = 'National Stadium, Warsaw'

Output

player
Robert Lewandowski
Dimitris Salpingidis
Alan Dzagoev
Jakub Blaszczykowski
...

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

SELECT DISTINCT player

FROM game JOIN goal ON matchid = id

WHERE (teamid != 'GER' AND (team1='GER' OR team2='GER'))

Output

player

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

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

COUNT and GROUP BY

Submit SQL restore default

```
SELECT teamname, COUNT(*)
```

```
FROM goal JOIN eteam ON (teamid=id)
```

```
GROUP BY teamname
```

Output

teamname	COUNT(*)
Croatia	4
Czech Republic	4
Denmark	4
England	5
France	3
...	

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

```
SELECT stadium, COUNT(*)
```

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

GROUP BY stadium

Output

stadium	COUNT(*)
Arena Lviv	9
Donbass Arena	7
Metalist Stadium	7
National Stadium, Warsaw	9
Olimpiyskiy National Sports Complex	14
...	

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

```
SELECT matchid, mdate, COUNT(*)
```

```
FROM game JOIN goal ON matchid = id
```

```
WHERE (team1 = 'POL' OR team2 = 'POL')
```

```
GROUP BY matchid, mdate
```

Output

matchid	mdate	COUNT(*)
1001	8 June 2012	2
1004	12 June 2012	2
1005	16 June 2012	1

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

```
SELECT matchid, mdate, COUNT(*)
```

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

```
WHERE (teamid='GER')
```

GROUP BY matchid, mdate

Output

matchid	mdate	COUNT(*)
1008	9 June 2012	1
1010	13 June 2012	2
1012	17 June 2012	2
1026	22 June 2012	4
1030	28 June 2012	1

11. List every match with the goals scored by each team as shown.

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 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 matchid = id
```

```
GROUP BY game.mdate, game.team1, game.team2
```

```
ORDER BY mdate,matchid,team1,team2
```

Output

mdate	team1	score1	team2	score2
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1 July 2012	ESP	4	ITA	0
10 June 2012	ESP	1	ITA	1
10 June 2012	IRL	1	CRO	3
11 June 2012	FRA	1	ENG	1
11 June 2012	UKR	2	SWE	1
...				