

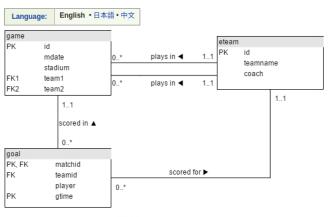


SELECT basics quiz SELECT from world quiz SELECT from nobel quiz SELECT in SELECT quiz SUM and COUNT quiz JOIN quiz Wore JOIN quiz Using NULL quiz Self JOIN quiz Self JOIN quiz Self JOIN quiz Self JOIN quiz

Reference

Tools

The JOIN operation



game

	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 and UEFA EURO 2012

This tutorial introduces JOIN which allows you to use data from two or more tables. The tables contain all matches and goals from UEFA EURO 2012 Football Championship in Poland and Ukraine.

The data is available (mysql format) at http://sqlzoo.net/euro2012.sql $\ensuremath{\mathfrak{g}}$ Summary

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 Khadira

Restore default



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

1026 Miroclay Klaca

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

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

Submit SQL

Restore default

Correct anguar

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
Miroclay Kloco	CED	DCE Arona Cdanek	22 June 2012



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 goal LEFT JOIN game ON matchid = id
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
OFD	ITA.	Maria Deletelli

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 INNER JOIN eteam ON teamid = id WHERE gtime<=10

Submit SQL

Restore default

Correct answer

player	teamid	coach	gtime
Petr Jirácek	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 INNER JOIN eteam e
ON e.id = g.team1
WHERE coach = 'Fernando Santos'

Submit SQL

Restore default

Correct answer

mdate	teamname
12 June 2012	Greece
16 June 2012	Greece

7. (



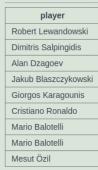
List the player for every goal scored in a game where the stadium was 'National Stadium, Warsaw'

SELECT player FROM
game g
INNER JOIN
goal go
ON g.id = go.matchid
INNER JOIN eteam e
ON e.id = go.teamid
WHERE g.stadium = 'National Stadium, Warsaw'
ORDER BY g.id

Submit SQL

Restore default

Correct ariswer



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 goal INNER JOIN game ON matchid = id
WHERE teamid <> 'GER' AND (team2 = 'GER' OR team1 =
'GER')

Submit SQL

Restore default

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.

COUNT and GROUP BY

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

Submit SQL

Restore default

Correct answer

teamname	COUNT(*)
Croatia	4
Czech Republic	4
Denmark	4
England	5
France	3
Germany	10
Greece	5
Italy.	6

10. 🥯

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
ORDER BY stadium

Submit SQL

Restore default

Correct answer

stadium	COUNT(*)
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
Stadion Miniski (Mroclaw)	Ω

11.



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

Correct answer

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

12.

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 id=matchid WHERE teamid = 'GER' GROUP BY matchid, mdate

Submit SQL

Restore default

Correct answer

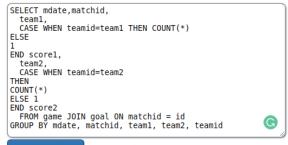
matchid	mdate	COUNT(*)
1008	9 June 2012	1
1010	13 June 2012	2
1012	17 June 2012	2
1026	22 June 2012	4
1030	28 June 2012	1

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 team 1 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.



Submit SQL

Restore default

Result.

mdate	matchid	team1	score1	team2	score2
1 July 2012	1031	ESP	4	ITA	1
10 June 2012	1013	ESP	1	ITA	1
10 June 2012	1013	ESP	1	ITA	1
10 June 2012	1014	IRL	1	CRO	3
10 June 2012	1014	IRL	1	CRO	1
11 June 2012	1019	FRA	1	ENG	1
11 June 2012	1019	FRA	1	ENG	1
11 June 2012	1020	LIVD	1	CIVIE	1

What next?

JOIN Quiz

Old JOIN Tutorial

More JOIN operations: The next tutorial about the Movie database involves some slightly more complicated joins from the movie database.

Category: Languages pages







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M. Vituzzo

Abrir >

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