

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 LIKE '%GER'
```

Submit SQL

restore default

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

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 goal.teamid = 'GER'
```

Submit SQL

restore default

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

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 game.team1, game.team2, goal.player
FROM goal LEFT JOIN game ON (game.id = goal.matchid)
WHERE goal.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 goal.player, goal.teamid, eteam.coach, goal.gtime
FROM goal INNER JOIN eteam ON (goal.teamid=eteam.id)
WHERE goal.gtime<=10;
```

Submit SQL

restore default

Correct answer

player	teamid	coach	gtime
Petr Jiráček	CZE	Michal Bílek	3
Václav Pílar	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 game.mdate, eteam.teamname FROM game
INNER JOIN eteam ON (game.team1=eteam.id)
WHERE eteam.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 goal.player FROM goal
INNER JOIN game ON (goal.matchid=game.id)
WHERE game.stadium='National Stadium, Warsaw';
```

Submit SQL

restore default

Correct answer

player
Robert Lewandowski
Dimitris Salpingidis
Alan Dzagoev
Jakub Blaszczykowski
Giorgos Karagounis
Cristiano Ronaldo
Mario Balotelli

1. 😊

```
SELECT id, title FROM movie
WHERE yr=1962
```

restore default

id	title
10212	A Kind of Loving
10329	A Symposium on Popular Songs
10347	A Very Private Affair (Vie Priv�e)
10648	An Autumn Afternoon
10868	Atrato a las tres
11006	Barabbas
11053	Battle Beyond the Sun ($\mathbb{D} \quad \mathbb{D}_{\mu} \oplus \mathbb{D}^{\%} \quad \mathbb{D}-\mathbb{D}^{\%} \mathbb{D}_{\mu} \tilde{\mathcal{N}}_i$)

2. 😊

```
SELECT yr from movie
WHERE title = 'Citizen Kane'
```

restore default

yr
1941

3. 😊

```
SELECT id, title, yr FROM movie
WHERE title like '%Star Trek%'
ORDER BY yr ASC
```

restore default

id	title	yr
17772	Star Trek: The Motion Picture	1979
17775	Star Trek II: The Wrath of Khan	1982
17776	Star Trek III: The Search for Spock	1984
17777	Star Trek IV: The Voyage Home	1986
17779	Star Trek V: The Final Frontier	1989
17780	Star Trek VI: The Undiscovered Country	1991
17774	Star Trek Generations	1994

4. 😊

```
SELECT id FROM actor
WHERE name = 'Glenn Close'
```

restore default

id
140

id for Casablanca

5. 😊

What is the **id** of the film 'Casablanca'?

```
SELECT id FROM movie
WHERE title = 'Casablanca'
```

Submit SQL

restore default

Correct answer

id
11768

Cast list for Casablanca

6. 😊

Obtain the cast list for 'Casablanca'.

what is a cast list?

Use **movieid=11768**, (or whatever value you got from the previous question)

```
SELECT actor.name FROM actor
JOIN casting ON casting.actorid = actor.id
WHERE casting.movieid = 11768;
```

Submit SQL

restore default

Correct answer

name
Peter Lorre
John Qualen
Madeleine LeBeau
Jack Benny
Dan Seymour
Norma Varden
Ingrid Bergman

Alien cast list

7. 😊

Obtain the cast list for the film 'Alien'.

```
SELECT actor.name FROM actor
JOIN casting ON casting.actorid = actor.id
JOIN movie ON movie.id = casting.movieid
WHERE movie.title = 'Alien';
```

Submit SQL

restore default

Correct answer

name
John Hurt
Sigourney Weaver
Yaphet Kotto
Harry Dean Stanton
Ian Holm
Tom Skerritt
Veronica Cartwright

Harrison Ford movies

8. 😊

List the films in which 'Harrison Ford' has appeared

```
SELECT movie.title FROM movie
JOIN casting ON casting.movieid = movie.id
JOIN actor ON actor.id = casting.actorid
WHERE actor.name = 'Harrison Ford';
```

Submit SQL

restore default

Correct answer

title
A Hundred and One Nights
Air Force One
American Graffiti
Apocalypse Now
Clear and Present Danger
Cowboys & Aliens
Crossing Over

9. 😄

```
SELECT movie.title FROM movie
JOIN casting ON casting.movieid = movie.id
JOIN actor ON actor.id = casting.actorid
WHERE actor.name = 'Harrison Ford' AND casting.ord != 1;
```

restore default

title
A Hundred and One Nights
American Graffiti
Apocalypse Now
Cowboys & Aliens
Dead Heat on a Merry-Go-Round
Extraordinary Measures
Force 10 From Navarone

10. 😊

```
SELECT movie.title, actor.name FROM movie
JOIN casting ON casting.movieid = movie.id
JOIN actor ON actor.id = casting.actorid
WHERE movie.yr = 1962 AND casting.ord = 1;
```

restore default

[illegible]

1. 😊

```
SELECT name FROM teacher
WHERE dept IS Null
```

restore default

name
Spiregrain
Deadyawn

2. 😊

```
SELECT teacher.name, dept.name
FROM teacher INNER JOIN dept
ON (teacher.dept=dept.id)
```

restore default

name	name
Shrivell	Computing
Throd	Computing
Splint	Computing
Cutflower	Design

3.



Use a different JOIN so that all teachers are listed.

```
SELECT teacher.name, dept.name
FROM teacher LEFT JOIN dept
ON (teacher.dept=dept.id)
```

Submit SQL

restore default

Correct answer

name	name
Shrivell	Computing
Throd	Computing
Splint	Computing
Spiregrain	
Cutflower	Design
Deadyawn	

4.



Use a different JOIN so that all departments are listed.

```
SELECT teacher.name, dept.name
FROM teacher RIGHT JOIN dept
ON (teacher.dept=dept.id)
```

Submit SQL

restore default

Correct answer

name	name
Shrivell	Computing
Throd	Computing
Splint	Computing
Cutflower	Design
	Engineering

5.



Use COALESCE to print the mobile number. Use the number '07986 444 2266' if there is no number given. **Show teacher name and mobile number or '07986 444 2266'**

```
SELECT name, COALESCE(mobile, '07986 444 2266') FROM teacher
```

Submit SQL

restore default

Correct answer

name	COALESCE(mobl..
Shrivell	07986 555 1234
Throd	07122 555 1920
Splint	07986 444 2266
Spiregrain	07986 444 2266
Cutflower	07996 555 6574
Deadyawn	07986 444 2266

6.



Use the COALESCE function and a LEFT JOIN to print the teacher **name** and department name. Use the string 'None' where there is no department.

```
SELECT COALESCE(teacher.name, 'NONE'), COALESCE(dept.name, 'None')
FROM teacher LEFT JOIN dept ON (teacher.dept=dept.id)
```

Submit SQL

restore default

Correct answer

COALESCE(teac..	COALESCE(dept..
Shrivell	Computing
Throd	Computing
Splint	Computing
Spiregrain	None
Cutflower	Design
Deadyawn	None