



Joins

Workbook

Answer the following

1. The joining technique is useful when data from several relations are to be retrieved and displayed and the relationships are not necessarily nested. (True/False)
2. _____ number of tables can be included with in a joining condition.
3. Subqueries can be nested multiple times. (True/False)_____
4. Outer join is the same as equi-join, except one of the duplicate columns is eliminated in the result table. (True/False)
5. _____ type of join is used to include rows that do not have matching values.
6. There should be one condition within the WHERE clause for each pair of tables being joined. (True/False)
7. _____ type of join is used to return rows that do have matching values.
8. Equi-join is same as inner-equi-join.(True/False)
9. _____ type of join retrieves the unmatched rows and matched from the left table and matched rows from right table.
10. _____ type of join is used in the below query.

```
MYSQL> SELECT * FROM EMP E INNER JOIN DEPT ON D WHERE E.DEPTNO = D.DEPTNO;
```
11. _____ type of join is used in the below query.

```
SELECT * FROM EMP E1, EMP E2 WHERE E1.JOB = E2.JOB;
```
12. Cross join generally generate cross product between two tables.(True/False)

Exercises

- Write the expected output, or compiler errors if any, for each of the following programs.

Program 1

```
MYSQL> SELECT * FROM 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

```
MYSQL> SELECT * FROM GOAL;
```

MATCHID	TEAMID	PLAYER	GTIME
1001	POL	Robert Lewandowski	17
1001	GRE	Dimitris Salpingidis	51
1002	RUS	Alan Dzagoev	15
1001	RUS	Roman Pavlyuchenko	82

```
MYSQL> SELECT * FROM ETEAM;
```

ID	TEAMNAME	COACH
POL	Poland	Franciszek Smuda
RUS	Russia	Dick Advocaat
CZE	Czech Republic	Michal Bilek
GRE	Greece	Fernando Santos

Q1: Write a query to retrieve players, their team and the amount of goals they scored against Greece(GRE).

Q2: What will be the output of the query given below?
 SELECT teamid, mdate FROM goal JOIN game on (matchid = id) WHERE mdate = '9 June 2012';

Q3: Write a query to retrieve player and their team for those who have scored against Poland(POL) in National Stadium, Warsaw.

Q4: What will be the output of the query given below?



```
MYSQL> SELECT teamname, COUNT(*) FROM eteam JOIN goal ON  
teamid = id GROUP BY teamname HAVING COUNT(*) < 3;
```

Program 2

```
MYSQL> SELECT * FROM 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

```
MYSQL> SELECT * FROM GOAL;
```

MATCHID	TEAMID	PLAYER	GTIME
1001	POL	Robert Lewandowski	17
1001	GRE	Dimitris Salpingidis	51
1002	RUS	Alan Dzagoev	15
1001	RUS	Roman Pavlyuchenko	82

```
MYSQL> SELECT * FROM ETEAM;
```

ID	TEAMNAME	COACH
POL	Poland	Franciszek Smuda
RUS	Russia	Dick Advocaat
CZE	Czech Republic	Michal Bilek
GRE	Greece	Fernando Santos

Q1: What will be the output of the query given below?

```
SELECT teamname, player FROM eteam JOIN goal ON id = teamid  
ORDER BY teamname;
```

Q2: Write a query to retrieve the stadium and the number of goals scored in each stadium.?

Q3: What will be the output of the query given below?

```
SELECT player, stadium FROM game JOIN goal ON (id = matchid);
```

Program 3

```
MYSQL> DESC MOVIE;
```

```
MYSQL> DESC ACTOR;
```

```
MYSQL> DESC CASTING;
```



FIELD	TYPE	FIELD	TYPE	FIELD	TYPE
-----	-----	-----	-----	-----	-----
ID	INT	ID	INT	MOVIEID	INT
TITLE	VARCHAR(30)	NAME	VARCHAR(30)	ACTORID	INT
YR	DATE				
DIRECTOR	VARCHAR(30)				
BUDGET	FLOAT				
GROSS	FLOAT				

Q1: Write a query to retrieve the titles of the films with id 11768, 11955, 21191

Q2: Write a query to retrieve id number of the actor 'Glenn Close'.

Q3: Write a query that shows the list of actors called 'John' by order of number of movies in which they acted.

Q4: What will be the output of the query given below?

```
MYSQL> SELECT title FROM movie, casting, actor WHERE name  
='Paul Hogan' AND movieid = movie.id AND actorid = actor.id;
```