SELECT basics SELECT from world SELECT from nobel SELECT in SELECT

quiz **JOIN** quiz More JOIN quiz **Using NULL** Self JOIN quiz

SUM and COUNT —

Reference Tools

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quiz

Using Null

teacher phone mobile dept name 101 2753 07986 555 1234 1 Shrivell 2754 07122 555 1920 102 1 Throd 103 1 Splint 2293 104 3287 Spiregrain 105 3212 07996 555 6574 2 Cutflower 106 3345 Deadyawn dept

id name 1 Computing 2 Design 3 Engineering

Teachers and Departments

The school includes many departments. Most teachers work exclusively for a single department. Some teachers have no department. Selecting NULL values.

Summary

NULL, INNER JOIN, LEFT JOIN, RIGHT JOIN

List the teachers who have NULL for their department.

Why we cannot use = select name from teacher where dept is null

Submit SQL

result

Note the INNER JOIN misses the teachers with no department and the departments with no teacher.

Restore default

Submit SQL Restore default

ON (teacher.dept=dept.id)

SELECT teacher.name, dept.name

FROM teacher JOIN dept

result

Submit SQL

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)

Restore default

result

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

result

Using the COALESCE function

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

Restore default

result

Submit SQL

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

Submit SQL Restore default Correct answer COALESCE(dept.. name

Shrivell Computing Computing Throd Computing Splint None Spiregrain Design Cutflower

None

Deadyawn

Use COUNT to show the number of teachers and the number of mobile phones.

SELECT COUNT(name), COUNT(mobile) FROM teacher

Submit SQL

Restore default

Correct answer COUNT(name) COUNT(mobile)

Use COUNT and GROUP BY dept.name to show each department and the number of staff. Use a RIGHT JOIN to ensure that the Engineering department is listed.

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

GROUP BY dept.name

Submit SQL Restore default

COUNT(teacher.. name

Correct answer

Computing Design Engineering 0

Using CASE

Use CASE to show the **name** of each teacher followed by 'Sci' if the teacher is in **dept** 1 or 2 and 'Art' otherwise.

SELECT name, CASE WHEN (dept = 1 OR dept = 2) THEN 'Sci' ELSE 'Art' END

FROM teacher

Submit SQL Restore default Shrivell Throd

Sci Sci Splint Sci Spiregrain Art Sci Cutflower Deadyawn Art

Correct answer

Sci

Sci

Sci

Sci

None

None

name

Shrivell

Throd

Splint

Spiregrain

Cutflower

Deadyawn

CASE WHEN dep..

Powered By MediaWiki

Correct answer

name

CASE WHEN (de..

10.

Clear your results

Use CASE to show the name of each teacher followed by 'Sci' if the teacher is in dept 1 or 2, show 'Art' if the teacher's dept is 3 and 'None' otherwise.

SELECT name, CASE WHEN dept = 1 OR dept = 2 THEN 'Sci'
WHEN dept = 3 THEN 'Art'
ELSE 'None' END FROM teacher

Submit SQL

Restore default

Using Null Quiz This page was last edited on 22 September 2015, at 18:37.