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NoSQL zoo SELECT Functions

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Language: English · 日本語 · 中文 teacher id dept name SELECT from world

Using Null

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

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 = You might think that the phrase dept=NULL would work here but it doesn't - you can use the phrase dept IS NULL That's not a proper explanation.

SELECT name FROM teacher WHERE dept IS NULL

Correct answer name Spiregrain Deadyawn

Submit SQL Restore default

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

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

Submit SQL Restore default Correct answer name name Computing Shrivell Throd Computing Splint Computing Cutflower Design

Submit SQL

Use a different JOIN so that all teachers are listed.

Restore default

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

Shrivell Computing Throd Computing Computing Spiregrain Cutflower Design Deadyawn

Correct answer

name



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 Computing Splint Computing Throd Computing Shrivell Cutflower Design Engineering

Using the COALESCE function



name and mobile number or '07986 444 2266' SELECT name, COALESCE (mobile, '07986 444 2266') FROM teacher

Submit SQL Restore default Correct answer COALESCE(mobi.. name 07986 555 1234 Shrivell 07122 555 1920 Splint 07986 444 2266 07986 444 2266 Spiregrain 07996 555 6574 Cutflower Deadyawn | 07986 444 2266



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

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

Correct answer

Correct answer

Sci

Sci

None

name

Throd

Splint

Spiregrain

Cutflower

Deadyawn None

CASE WHEN dep..



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 Correct answer COUNT(teacher... name Computing Design 0 Engineering

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 IN(1,2) THEN 'Sci' ELSE 'Art' END FROM teacher

Restore default Submit SQL

Correct answer CASE WHEN dep.. Shrivell Sci Throd Sci Sci Splint Spiregrain Art Cutflower Sci Deadyawn Art

10. 🥯



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 IN(1,2) THEN 'Sci' WHEN dept = 3 THEN 'Art' ELSE 'None' FROM teacher

Submit SQL Restore default

Clear your results Using Null Quiz

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