

SELECT basics SELECT from world quiz SELECT from nobel SELECT in SELECT

Using Null

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

dept

| aop. | | | |
|------|-------------|--|--|
| id | name | | |
| 1 | Computing | | |
| 2 | Design | | |
| 3 | Engineering | | |
| | | | |

Reference

More JOIN Using NULL quiz Self JOIN quiz

Tools

quiz SUM and COUNT auiz JOIN quiz

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.

No it's not, but you can read a better explanation at Wikipedia:NULL. ₫

select name from teacher where dept is null

Submit SQL

Restore default

2.



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

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

Submit SQL

Restore default

Correct answer

Correct answer

name

Spiregrain

Deadyawn



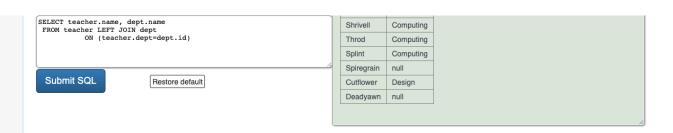
3.



Use a different JOIN so that all teachers are listed.











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 | | |
|-------------|--|--|
| Computing | | |
| Computing | | |
| Computing | | |
| Design | | |
| Engineering | | |
| | | |

Using the COALESCE function

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

| COALESCE(mobi |
|----------------|
| 07986 555 1234 |
| 07122 555 1920 |
| 07986 444 2266 |
| 07986 444 2266 |
| 07996 555 6574 |
| 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

Correct answer

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

7



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

select count(teacher.id), count(teacher.mobile)
from teacher

Correct answer



Submit SQL

Restore default

8.



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.id) from teacher right join dept on teacher.dept=dept.id group by dept.name

Submit SQL

Restore default

Correct answer

| name | count(teacher |
|-------------|---------------|
| Computing | 3 |
| Design | 1 |
| Engineering | 0 |

Using CASE

9.



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 dept when 1 then 'Sci' when 2 then 'Sci' else 'Art' end from teacher

Submit SQL

Restore default

Correct answer

| name | case dept w |
|------------|-------------|
| Shrivell | Sci |
| Throd | Sci |
| Splint | Sci |
| 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 dept
when 1 then 'Sci'
when 2 then 'Sci'
when 3 then 'Art'
else 'None'
end
from teacher

Submit SQL

Restore default

Correct answer

| name | case dept w |
|------------|-------------|
| Shrivell | Sci |
| Throd | Sci |
| Splint | Sci |
| Spiregrain | None |
| Cutflower | Sci |
| Deadyawn | None |
| | |

Clear your results

Using Null Quiz

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