



Using Null

Language: English • 日本語 • 中文

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

| 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 =

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

Use a different JOIN so that all teachers are listed.

Use a different JOIN so that all departments are listed.

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'

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.

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

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.

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.

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.

Clear your results

[Using Null Quiz](#)

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