1. List the teachers who have NULL for their department.
2. Show teacher name and dept. name for teachers having not null in dept.
3. Show teachers name, id, mobile and dept name.
4. Use a different JOIN so that all teachers are listed.
5. Use a different JOIN so that all departments are listed.
6. 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'**

COALESCE(x,y,z) = x if x is not NULL

COALESCE(x,y,z) = y if x is NULL and y is not NULL

COALESCE(x,y,z) = z if x and y are NULL but z is not NULL

COALESCE(x,y,z) = NULL if x and y and z are all NULL

e.g.

SELECT name, party

,COALESCE(party,'None') AS aff

FROM msp

1. 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.
2. Use COUNT to show the number of teachers and the number of mobile phones.
3. 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.
4. Use CASE to show the **name** of each teacher followed by 'Sci' if the teacher is in **dept** 1 or 2 and 'Art' otherwise.

CASE WHEN condition1 THEN value1

WHEN condition2 THEN value2

ELSE def\_value

END

e.g.

SELECT name, population

, CASE WHEN population <1000000

THEN 'small'

WHEN population<10000000

THEN 'medium'

ELSE 'large'

END

FROM bbc

1. 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.