Using Null

1.List the teachers who have NULL for their department.

Ans:- select name from teacher where dept is null;

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

Ans:- SELECT teacher.name, dept.name FROM teacher INNER JOIN dept on (teacher.dept=dept.id);

3.Use a different JOIN so that all teachers are listed

Ans:- select teacher.name,dept.name from teacher left join dept

on (teacher.dept=dept.id);

4.Use a different JOIN so that all departments are listed.

Ans:- select teacher.name,dept.name from teacher right join dept on (teacher.dept=dept.id);

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**

Ans:- select name,COALESCE (mobile,'07986 444 2266') from teacher;

6.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.

Ans:- SELECT teacher.name, coalesce(dept.name, 'None') AS department FROM teacher left join dept ON dept.id = teacher.dept;

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

Ans:- select count(teacher.name),count(mobile) from teacher;

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

Ans:-select dept.name ,count(teacher.name) from teacher right join dept on teacher.dept=dept.id

group by dept.name;

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

Ans:- select name, case

when dept = 1 or dept =2 then 'Sci'

else'Art'

end "name" from teacher;

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.

Ans:-

select name, case

when dept=1 or dept=2 then 'Sci'

when dept=3 then 'Art'

else 'None'

end "name"

from teacher;