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USE university sql prorejct schema;
-- //The average grade that is given by each professor
SELECT
p.professors name AS 'Professors',
AVG (grades grades) AS 'Average'
FROM professors p
JOIN grades g
ON p.professors_class = g.grades_courses
GROUP BY p.professors name;
-- //The top grades for each student
SELECT
s.students_name AS 'Students Name',
MAX(grades grades) AS 'Best grades'
FROM grades g
JOIN students s
ON s.students_id = g.grades_id
GROUP BY g.grades_id;
-- //Group students by the courses that they are enrolled in
SELECT COUNT(grades_courses) as 'Enrolled',
c.courses name as 'Grades'
FROM grades g
JOIN courses c
ON g.grades courses = c.courses id
GROUP BY c.courses_id;
-- //Create a summary report of courses and their average grades,
-- sorted by the most challenging course (course with the lowest
average grade) to the easiest course
SELECT
courses name AS 'Courses',
AVG (grades grades) AS 'Grades Average'
FROM courses c
JOIN grades g
ON c.courses_id = g.grades_courses
GROUP BY courses name
ORDER BY AVG (grades_grades) ASC;
-- //Finding which student and professor have the most courses in
SELECT professors_name AS 'Professors', COUNT(professors_name) AS
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'Common courses',
grades id AS 'Students'
FROM professors p
JOIN grades q
ON p.professors class = q.grades courses
WHERE professors name= 'Mrs. R'
GROUP BY grades id
ORDER BY COUNT(professors name) DESC;
SELECT professors_name AS 'Professors', COUNT(professors_name) AS
'Common courses',
grades_id AS 'ID Students'
FROM professors p
JOIN grades g
ON p.professors_class = g.grades_courses
WHERE professors name= 'Miss. D'
GROUP BY grades id
ORDER BY COUNT(professors_name) DESC;
SELECT professors_name AS 'Professors', COUNT(professors_name) AS
'Common courses',
grades_id AS 'ID Students'
FROM professors p
JOIN grades g
ON p.professors_class = g.grades_courses
WHERE professors_name= 'MR. A'
GROUP BY grades_id
ORDER BY COUNT(professors name) DESC;
SELECT professors name AS 'Professors', COUNT(professors name) AS
'Common courses',
grades id AS 'ID Students'
FROM professors p
JOIN grades g
ON p.professors_class = g.grades_courses
WHERE professors name= 'Mrs. M'
GROUP BY grades id
ORDER BY COUNT(professors_name) DESC;
SELECT professors_name AS 'Professors', COUNT(professors_name) AS
'Common courses',
grades_id AS 'ID Students'
FROM professors p
JOIN grades g
ON p.professors_class = g.grades_courses
WHERE professors name= 'Miss. J'
```

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GROUP BY grades_id
ORDER BY COUNT(professors_name) DESC;

SELECT professors_name AS 'Professors', COUNT(professors_name) AS 'Common courses',
grades_id AS 'ID Students'
FROM professors p
JOIN grades g
ON p.professors_class = g.grades_courses
WHERE professors_name= 'MR. T'
GROUP BY grades_id
ORDER BY COUNT(professors_name) DESC;
```