SQL Fundamentals – DIVISION problems

Often times there is more than one way to write an SQL statement to answer a question. However, for these assignment be sure to use the technique taught in the lesson if you can think of more than one way to write the SQL. The point of the lessons and assignments is to learn and practice each technique.

1. S-T Database: Count the # of students.
2. S-T Database: Answer the “division” question: Which workshops has every student attended? Show which workshops, if any, has every student taken. List the workshop name and the student count if everyone has taken the workshop.

What to do:

1. In one file write all the SQL commands.
2. Before each command add the problem statement as a comment line.
3. The file must be a simple text file with a TXT or SQL file extension.
4. Test your commands and make sure they are error-free before submitting the solution file.

Solutions:

/\* Count the # of students. \*/

select count(\*)

from students;

/\* Answer the “division” question: Which workshops has every student attended?

Show which workshops, if any, has every student taken. List the workshop name and the student count if everyone has taken the workshop. \*/

select wksp\_name, count(\*) "Students Attended"

from workshops, attendances

where workshops.wksp\_id = attendances.attnd\_wksp\_id

group by wksp\_name

HAVING count(\*) =

 (select count(\*)

 from students);