

INST327 – Assignment 4

Please import version two of the iSchool database. The script, attached in the assignment, will create a new database called iSchool_v2. Use iSchool_v2 database for this assignment.

Be sure you complete both questions.

Please consult the rubric and instruction sheets before starting the assignment. Usage of some keywords or structures (IF, IFNULL(), etc.) that are not allowed will result in point deductions. This is to test you on what we have taught you even though these keywords and structures may seem like an easier solution.

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Q. 1) Aggregate Functions (50 points)

Replicate the result set below which counts the number of courses the student is enrolled in, the number of credits they are taking, and lists the latest start time from the courses they are enrolled in (*hint*: use the `time_format` function). Include a final row that lists the super-aggregates for each column (i.e. total enrollments, total credits for all students, latest start time). Only display students who are taking 9 or more credits. Ordering is not important for this question.

student_name	enrollments	credit_count	latest_start
Argue, Carley	5	13	02:00:00 PM
Barker, Murray	5	13	02:00:00 PM
Bell, Derrick	5	13	02:00:00 PM
Brooke, Edward	6	18	05:30:00 PM
Cheshire, Ninetta	5	15	05:30:00 PM
Ellul, Genna	5	13	02:00:00 PM
Ito, Aiko	5	13	02:00:00 PM
Martina, Zoe	5	13	02:00:00 PM
Matityahu, Carolyn	5	13	02:00:00 PM
Nguyen, Dustin	5	13	02:00:00 PM
Oguz, Torie	6	18	05:30:00 PM
Quintana, Nairo	5	13	02:00:00 PM
Slaughter, Francis	5	15	05:30:00 PM
Van Baaren, Ellene	5	15	05:30:00 PM
HULL	132	378	06:00:00 PM

15 rows returned.

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Q. 2) Subquery/CTE (50 points)

Replicate the result set below which counts both the number of sections and the number of students. Note that counting both values within one SELECT query will return incorrect results, so **it's necessary to use either a subquery or a CTE**. Only display courses with 2 or more sections.

(+2 bonus points): Provide a short explanation of why you used either option (subquery/CTE). Neither answer is more correct, we would just like you to explain your choice. There is no rubric for this but answers should be more than a simple sentence.

course	course_description	section_count	enrollment_count
INST101	Bits and Bytes of Computer and In...	3	9
INST201	Introduction to Information Science	7	1
INST228	Academic Peer Mentor Experienc...	6	4
INST311	Information Organization	10	1
INST314	Statistics for Information Science	10	10
INST327	Database Design and Modeling	16	50
INST362	User-Centered Design	4	10
INST377	Dynamic Web Applications	4	10
INST414	Design Science Techniques	3	5
INST490	Integrated Capstone for Informatio...	5	4
INST630	Introduction to Programming for th...	2	6
INST808	Seminar in Research Methods and...	2	3

12 rows returned.

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