Workshop 2

Querying a single table (2%)

Learning objectives

Upon successful completion of this workshop, you will have demonstrated the abilities to:

1. Retrieve all rows from a table.
2. Select rows using conditional restrictions on numerical and categorical attributes
3. Use alias to provide an alternate name to a column calculated through formulas.
4. Use conditional restrictions with logical operators to link multiple conditional expressions in a sql query
5. Select rows using conditional restrictions with special operators

Required readings

Refer to M4\_SQL\_partI.doc to answer the questions in this workshop.

Covered in this workshop

* SELECT *columnlist* FROM *tablename*;
* SELECT *columnlist* FROM *tablelist* [WHERE *conditionlist*];
* Comparison operators (=, <, <=, >, >=, !=)
* Arithmetic operators (+, -, \*, /, ^)
* Logical operators (AND, OR, NOT)
* Special operators (BETWEEN, IS NULL, LIKE, IN, EXISTS)
* ORDER BY clause: produce and ordered list of rows ordered by one or more columns.
* DISTINCT clause: produce a list of values that are unique
* Alias

Student declaration form

Add this declaration on the top of your Workshop2.docx file.

1. We, ------------(mention your names), declare that the attached assignment is our own work in accordance with the Seneca Academic Policy. No part of this assignment has been copied manually or electronically from any other source (including web sites) **or distributed to other students.**
2. Specify what each member has done towards the completion of this work:

|  |  |  |
| --- | --- | --- |
|  | Name | Task(s) |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |

Instructions

Using TinyCollege database, write the sql queries to answer each of the following questions. Your answer should consist of the SQL query and also the result of the query in a table form.

1. Display all courses in the COURSE table.
2. Display the courses whose credit is 4 (use CRS\_CREDIT column in the conditional restriction).
3. Display the courses that relate to the accounting department (use DEPT\_CODE column in the conditional restriction to be equal ACCT)
4. Display the courses offered by CIS department and whose credit is 4.
5. Display the courses that contain the term “Account” or “Statistic” anywhere in their descriptions.
6. Given the course code ACCT-211, use the class table to list the class section, class time and class room.
7. Use the ENROLL table and list the distinct class codes.
8. A course that is currently offered in a term, should appear in at least one entry in the class table. Courses that are not offered in a term, would have an entry only in the COURSE table and do not show up in any entry of the CLASS table. Use the NOT IN operator to display the courses that are not currently offered, meaning, display the courses from the COURSE table, that do not show in the CLASS table. Refer to slide 22, in M4\_SQL\_partI
9. Display the student records alphabetically in ascending order based their last name
10. Display the students from the ENROLL table whose grade is A or B. Use the in operator. Also use alias to show the grade column name in the result set as "Grade" instead of "ENROLL\_GRADE"

SUBMISSION

Submit the following file on BB. Do not submit a zipped folder.

* w02\_groupX.doc: This document should contain the questions 1 to 10 with the answer to each as (SQL query + result set).