

## **COMP 3380 – Databases: Concepts and Usage**

Department of Computer Science  
The University of Manitoba  
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### **Hint to Assignment 3 (Part B)**

#### **Question 2**

- You may check your answers using HSQLDB or (other available systems) by putting your answers in files `TestStudents.sql` (batch file) or `DBTest.java` (Java approach).
- HSQLDB does not support the “`≠ALL`” command, but it supports “`NOT IN`” and “`NOT EXISTS`” commands.
- HSQLDB does not support the “`NOT EXISTS ... EXCEPT ...`” command, but it supports the “`NOT EXISTS ... NOT EXISTS ...`” command.

#### **Question 3**

- To populate the Students-Courses-Professors database, you may want to modify the `Students.script` file by putting appropriate `CREATE TABLE` statements and appropriate `INSERT` statements.
- You may want to check the sample solutions for Assignment 2 for appropriate statements.
- Put each statement in one line (i.e., do not split the lines).
- Also, write an SQL query to display the shown table. If you populate the database correctly, you will be able to get the same table as shown in Assignment 3.

#### **Question 4**

- To save your time, you want to modify the provided Java program (named `DBTest.java`).
- To populate the Students-Courses-Professors database, you may want to modify the `Students.script` file by putting appropriate `CREATE TABLE` statements and appropriate `INSERT` statements.
- For part (a), just ensure that you have populated the database by putting appropriate statements in the `Students.script` file.
- Given parts (c) and (d) are similar, you may *skip part (d)*.

#### **Question 5**

- You may check your answers using HSQLDB or (other available systems) by putting your answers in files `TestStudents.sql` (batch file) or `DBTest.java` (Java approach).

**--- End of Hints to Assignment 3 (Part B) ---**