**CSC384**

HomeWork 1: Due Jan 22 11:59 pm (via bb)

For each problem below, note down your confidence level between 0 – 10, with 0 indicating the lowest level of confidence and 10 indicating the highest level of confidence.

1. Write SQL DDL (Data Definition Language) statements to create a table called studentInfo with attributes studentNum of type integer, and marks of type integer. [2]

CREATE TABLE studentInfo (

studentNum INT,

marks INT

);

Now import the data given into your table.

The solution that you turn in **MUST** include the SQL statement to create the studentInfo table.

For each of the questions 2 - 5, you must show two things: (a) the result of the query; (b) the time it took to execute the query (use SET TIMING ON). [8]

1. SELECT COUNT (\*) FROM studentInfo;

(Note: you must get the result of the SQL statements in problems 2 to 4 as 19,993 – otherwise, check whether all rows were inserted correctly).

Result:19993, and it took 00.004 seconds.

1. SELECT COUNT(\*) FROM studentInfo s1, studentInfo s2

WHERE s1.studentNum=s2.studentNum;

Result:19993, and it took 00.016 seconds.

1. SELECT COUNT(\*) FROM studentInfo s1

WHERE s1.studentNum IN (SELECT studentNum FROM studentInfo);

Results:19993, and it took 00.051 seconds.

1. UPDATE studentinfo SET marks = marks - 1

WHERE studentNum IN (SELECT studentNum FROM studentInfo);

Updated: 19993 rows, and it took 00.361 seconds.

For 5, the result of the query would be a message saying how many rows were updated. Include that message in your solution that you turn in.