**ISEM 3006 Data Management in Business**

SQL 4 In-class Exercise

1 List the task number of the tasks that are assigned to ALL the employees of the company. (Note: This query should return nothing, i.e., an empty table.)

SELECT TNum

FROM TaskAssignment

GROUP BY TNum

HAVING COUNT(TNum) = (SELECT COUNT(EmpNo)

FROM Employee) ;

2 Similar to 1, also list the task name, i.e., list the task number and the task name of the tasks that are assigned to ALL the employees of the company.

SELECT T.TNum, T.TName

FROM TaskAssignment TA JOIN Task T

ON TA.TNum = T.TNum

GROUP BY T.TNum, T.TName

HAVING COUNT(T.TNum) = (SELECT COUNT(EmpNo)

FROM Employee) ;

3. List the employees who are earning the highest or the second highest distinct salaries. (In the current Employee table, it should be those employees who are earning 5000 and 3800.)

SELECT \*

FROM Employee

WHERE Salary IN (SELECT DISTINCT Salary

FROM Employee

ORDER BY Salary DESC

FETCH FIRST 2 ROW ONLY) ;

4. Reduce the salary by 50% for the employees who do not have any task assignment.

Update Employee

SET Salary = Salary \* 0.5

WHERE EmpNo NOT IN (SELECT EmpNo

FROM TaskAssignment);

/\* The following answer is also correct.

But the above solution is much simpler.

\*/

Update Employee

SET Salary = Salary \* 0.5

WHERE EmpNo IN (SELECT E.EmpNo

FROM Employee E LEFT OUTER JOIN TaskAssignment TA

ON E.EmpNo = TA.EmpNo

WHERE TA.TNum IS NULL );