**ISEM 3006 Data Management in Business**

SQL 3 Select In-class Exercise

1. List the employee's number, name and the name of the department he or she belongs to for employees who have worked on at least one task. Remove any duplication.

SELECT E.EmpNo , E.Name, D.DName

FROM Employee E

[INNER] JOIN Department D ON E.EmpNo = D.DNum

RIGHT [OUTER] JOIN TaskAssignment TA ON E.EmpNo = TA.EmpNo;

2. For each task, list the task number, task name and the number of employees assigned to the task.

SELECT T.TNum , T.TName , COUNT(\*) AS “Num of employees”

FROM TaskAssignment TA [INNER] JOIN Task T

ON TA.TNum = T.TNum

GROUP BY T.TNum;

3. List the detail of the employees who are not assigned to any task.

SELECT Employee\* FROM Employee

WHERE Employee.EmpNo

NOT IN(SELECT TaskAssignment.EmpNo FROM TaskAssignment);

4. List the department number and name of the departments which have managed the task with TNUM = 10 and TNUM = 30.

SELECT D.DNum, D.DName

FROM Department D [INNER] JOIN Task T

ON T.TDNum = D.DNum

WHERE T.TDNum = 10 ;

INTERSECT

SELECT D.DNum, D.DName

FROM Department D [INNER] JOIN Task T

ON T.TDNum = D.DNum

WHERE T.TDNum = 30;

5. List the employees’ name and salary of the employees who have the highest salary.

SELECT EmpNo, Name , Salary

FROM Employee

WHERE Salary = MAX(Salary)