**Instructions**

Edit Instructions

The purpose of a worksheet is to provide a support structure for your study and to provide better coverage of routine introductory exercises prior to completing more challenging homework assignments. Much of the text comes from questions that arise during the course.

Please attempt the worksheet on your own. Answers are provided under the Practice module.

 To receive credit for completing the worksheet, you must write 'Done' in a textbox on D2L submission folder when you have finished the worksheet. Do not paste your work. Just say 'Done'.

1. Consider a table Emp(empno, sal, deptno) where empno is employee number, sal is salary of the employee and deptno is the department in which the employee works. Consider another table Dep(dempno,empno) where dempno is the dependent number and empno is employee number. We wish to find the salary and department number of employee who have 4 or more dependents.  The data engineer wrote the following query. Is it a correct query?

SELECT e1.sal, e1.deptno

FROM emp e1

WHERE e1.empno IN (SELECT empno, count(dempno)

FROM emp e2

group by empno  
 having count(dempno) >= 4);  
  
  
2. Consider a table Emp(empno, sal, deptno) where empno is employee number, sal is salary of the employee and deptno is the department in which the employee works.   
We wish to find all those employees (irrespective of department) whose salary is greater than salary of any one employee in department 10.   
One data engineer wrote the following query

SELECT e1.empno, e1.sal

FROM emp e1

WHERE e1.sal > ANY (SELECT e2.sal

FROM emp e2

WHERE e2.deptno = 10);  
  
The manager wrote the following query:

SELECT e1.empno, e1.sal

FROM emp e1

WHERE EXISTS (SELECT e2.sal

FROM emp e2

WHERE e2.deptno = 10

AND e1.sal > e2.sal);  
  
Who is correct the data engineer or the manager?

3.Consider a table Emp(empno, sal, deptno) where empno is employee number, sal is salary of the employee and deptno is the department in which the employee works.   
We wish to find all those employees  (irrespective of department) whose salary is greater than the salary of every employee in department 20.   
The data engineer wrote the following query

ELECT e1.empno, e1.sal

FROM emp e1

WHERE NOT EXISTS (SELECT e2.sal

FROM emp e2

WHERE e2.deptno = 20

AND e1.sal <= e2.sal);

The manager wrote:

SELECT e1.empno, e1.sal

FROM emp e1

WHERE e1.sal < ALL (SELECT e2.sal FROM emp e2 WHERE e2.deptno = 20);

Who is correct the engineer or the manager?