# Tutorial 6 SQL

#### **Classroom Exercise**

### **Question 1**

(i)

**SELECT** Pname **FROM** PROF, DEPT

**WHERE** DEPT.Dname = PROF.Dname AND Numphds < 50;

(iii)

**SELECT** Sname, Dname

FROM COURSE C, ENROLL E, MAJOR M, STUDENT S

**WHERE** C.Cname = 'Database Systems' AND

C.Dname = E.Dname AND C.Cno = E.Cno AND

E.Sid = M.Sid AND E.Sid = S.Sid;

(iv)

**SELECT** Sid, Sname, GPA

FROM STUDENT S
WHERE NOT EXISTS

(SELECT C.CID FROM COURSE C

**WHERE** Dname = 'Civil Engineering'

**EXCEPT** 

SELECT E.CID FROM ENROLL E

**WHERE** Dname = 'Civil Engineering'

AND E.Sid = S.Sid);

## **Question 2**

(i)

**SELECT DISTINCT** wa1.issueID, wa1.articleID

**FROM** WordAppears wa1, WordIs wi1, WordAppears wa2, WordIs wi2 wa1.issueID = wa2.issueID AND wa1.articleID = wa2.articleID

AND wa1.wordID = wi1.wordID AND wa2.wordID = wi2.wordID

AND wil.wordText = 'politician' AND

wi2.wordText = 'corruption';

### **Question 3**

(b) Find the names of all employees in the database who live in the same cities and on the same streets as do their managers. Assume that all people work for at most one company. Each company has at most one manager, who is also an employee of the same company.

#### **Solution:**

SELECT p.employee-name FROM employee p, employee r, manages m WHERE p.employee-name = m.employee-name AND m.manager-name = r.employee-name AND p.street = r.street AND p.city = r.city;