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 STUDENTS 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;