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 Distinct CDname, C.Cno, C.Cname **FROM** COURSE C, Section S1, Section S2

WHERE

S1.Dname = S2.Dname AND S1.Cno = S2.Cno AND S1.Sectno <> S2.Sectno AND S1.PName <> S2.PName AND S1.Dname = C.Dname AND S1.Cno = C.Cno

Question 2

(i)

SELECT DISTINCT wa1.issueID, wa1.articleID

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

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

AND wi1.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;

Question 4

SELECT DINSTINT F.Drinker
FROM Likes AS L, Frequent AS F,
Serve AS S
WHERE L.Drinker = F.Drinker
AND F.Bar = S.Bar
AND L.Beer = S.Beer