Database Assignment 2

1. select distinct s.lname

from student s join registration r on(s.studentid = r.studentid)

where r.term = 'U2023F' and r.studentid <> 99

and r.section in (select section from registration where term='U2023F' and studentid = 99)

order by lname

1. SELECT

COALESCE(o.room, 'unknown')

FROM

offering o

JOIN registration r ON o.term = r.term AND o.section = r.section

WHERE

o.term = 'U2023W'

AND r.studentId = 99

AND o.days IN (1, 5)

AND '10:30:00' BETWEEN o.stime AND o.etime;

1. SELECT

COALESCE(o.room, 'unknown')

FROM

offering o

JOIN registration r ON o.term = r.term AND o.section = r.section

WHERE

o.term = 'U2023W'

AND r.studentId = 100

AND o.days IN (1, 5)

AND '10:30:00' BETWEEN o.stime AND o.etime;

1. SELECT r.\*

FROM registration r

JOIN offering o ON r.deptCode = o.deptCode

AND r.course = o.course

AND r.section = o.section

AND r.term = o.term

WHERE r.studentId = 99

AND EXISTS (

SELECT 1

FROM offering o2

WHERE o2.days = o.days

AND o2.term = o.term

AND o2.stime < o.etime

AND o2.etime > o.stime

AND o2.deptCode != o.deptCode

);

e) SELECT SUM(g.point \* cr.credits) / SUM(cr.credits) AS gpa

FROM registration r

JOIN grade g ON r.grade = g.grade

JOIN course cr ON r.deptCode = cr.deptCode AND r.course = cr.course

WHERE r.studentId = 99 AND r.term = 'U2023F';