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1.
SELECT DISTINCT p.professorID, firstname, lastname
FROM professor p
INNER JOIN sections s
ON s.professorID = p.professorID
INNER JOIN courses c
ON s.courseID = c.courseID
INNER JOIN Location l
ON l.locationID = s.locationID
WHERE subjectcode = 'CS'
AND p.professorID NOT IN (SELECT p.professorID
FROM professor p
INNER JOIN sections s
ON s.professorID = p.professorID
INNER JOIN Location l
ON l.locationID = s.locationID
WHERE subjectcode = 'CS'
AND Building = 'OL')
ORDER BY lastname, firstname;

2.
SELECT firstname, lastname, To_Char(admissiondate, 'Mon DD YYYY HH:MI AM')
AS ADMITDATE
FROM students
WHERE To_Char(admissiondate, 'Mon YYYY') = 'Aug 2015'
AND tuitionbalance > (SELECT AVG(tuitionbalance)
FROM students)
ORDER BY lastname, firstname;

3.
SELECT city, state, count(*) as numstudents
FROM (SELECT DISTINCT city, state, r.studentID
FROM students s
INNER JOIN registration r
ON s.studentID = r.studentID)
HAVING count(*) = (SELECT MAX(numstudents) FROM (SELECT city, state,
count(*) as numstudents
FROM (SELECT DISTINCT city, state, r.studentID
FROM students s
INNER JOIN registration r
ON s.studentID = r.studentID
) group by city, state))
GROUP BY city, state
ORDER BY count(*);

4.
SELECT p.professorID, firstname, lastname, sectionID, subjectCode AS subj,
coursenumber AS cours
FROM professor p
INNER JOIN sections s
ON s.professorID = p.professorID
INNER JOIN courses c
ON s.courseID = c.courseID
WHERE subjectCode = 'WEB'
AND capacity = (SELECT MAX(capacity)
FROM sections)
ORDER BY cours;

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5.
SELECT s.studentID, firstname, lastname, count(*) as numcourses
FROM Students s
INNER JOIN Registration r
ON s.studentID = r.studentID
INNER JOIN Sections s
ON r.sectionID = s.sectionID
INNER JOIN Location l
ON s.locationID = l.locationID
INNER JOIN Courses c
ON s.courseID = c.courseID
WHERE SUBJECTCODE = 'CS'
AND courseNumber = 1400
HAVING count(*) = (SELECT MAX(numcourses)
FROM
(SELECT s.studentID, firstname, lastname, count(*) as numcourses
FROM Students s
INNER JOIN Registration r
ON s.studentID = r.studentID
INNER JOIN Sections s
ON r.sectionID = s.sectionID
INNER JOIN Location l
ON s.locationID = l.locationID
INNER JOIN Courses c
ON s.courseID = c.courseID
WHERE SUBJECTCODE = 'CS'
AND courseNumber = 1400
GROUP BY s.studentID, firstname, lastname))
GROUP BY s.StudentID, firstname, lastname
ORDER BY lastname, firstname;

6.
SELECT subjectCode as subj, subjectdescription, count(*) as numstudents
FROM Students s
INNER JOIN Registration r
ON s.studentID = r.studentID
INNER JOIN Sections s
ON r.sectionID = s.sectionID
INNER JOIN Courses c
ON s.courseID = c.courseID
HAVING count(*) = (SELECT MIN(numstudents)
FROM (SELECT subjectCode as subj, subjectdescription, count(*) as
numstudents
FROM Students s
INNER JOIN Registration r
ON s.studentID = r.studentID
INNER JOIN Sections s
ON r.sectionID = s.sectionID
INNER JOIN Courses c
ON s.courseID = c.courseID
GROUP BY subjectCode, subjectdescription))
GROUP BY subjectCode, subjectdescription

7.
SELECT building as build, count(*) as numstudents
FROM Students s

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INNER JOIN Registration r
ON s.studentID = r.studentID
INNER JOIN Sections s
ON r.sectionID = s.sectionID
INNER JOIN Location l
ON s.locationID = l.locationID
HAVING count(*) = (SELECT MIN(numstudents) FROM(SELECT building, count(*)
as numstudents
FROM Students s
INNER JOIN Registration r
ON s.studentID = r.studentID
INNER JOIN Sections s
ON r.sectionID = s.sectionID
INNER JOIN Location l
ON s.locationID = l.locationID
GROUP BY building))
GROUP BY building
ORDER BY building;
8.

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SELECT firstname, lastname, c.courseID, subjectCode as subj, courseNumber
as cours, To_Char(sectionStartDate, 'Mon DD YYYY HH:MI AM') as sectime
FROM students s
INNER JOIN Registration r
ON s.studentID = r.studentID
INNER JOIN Sections s
ON r.sectionID = s.sectionID
INNER JOIN Location l
ON s.locationID = l.locationID
INNER JOIN Courses c
ON s.courseID = c.courseID
WHERE c.courseID IN (SELECT c.courseID
FROM students s
INNER JOIN Registration r
ON s.studentID = r.studentID
INNER JOIN Sections s
ON r.sectionID = s.sectionID
INNER JOIN Location l
ON s.locationID = l.locationID
INNER JOIN Courses c
ON s.courseID = c.courseID
WHERE To_Char(sectionStartDate, 'HH:MI AM') = '11:30 AM')
ORDER BY lastname, c.courseID, sectime
9.

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SELECT firstname, lastname, streetaddress, city, state as st,
tuitionbalance
FROM students
WHERE tuitionbalance = (SELECT MIN(tuitionbalance)
FROM students)
ORDER BY lastname, firstname
10.

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SELECT firstname, lastname, city, state as st
FROM students
WHERE To_Char(admissionDate, 'MON YYYY') =
(SELECT To_Char(admissionDate, 'MON YYYY')

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FROM students
WHERE tuitionbalance =
    (SELECT MAX(tuitionbalance)
     FROM students)
)
ORDER BY lastname, firstname
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