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1.
SELECT city, state as st, zip, count(*) as numstudents
FROM students
GROUP BY city, state, zip
ORDER BY numstudents desc, state, city;

2.
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 Courses c
ON s.courseID = c.courseID
GROUP BY s.studentid, firstname, lastname, subjectCode
HAVING count(*) >= 10
AND subjectCode = 'CS'
ORDER BY numcourses DESC, lastname, firstname;

3.
SELECT building, count(*) as numsections
FROM location l
INNER JOIN sections s
ON s.locationid = l.locationid
GROUP BY building
HAVING count(*) >= 50
ORDER BY building;

4.
SELECT firstname, lastname, count(*) as numsections
FROM Students s
INNER JOIN Registration r
ON s.studentID = r.studentID
INNER JOIN Sections s
ON r.sectionID = s.sectionID
WHERE admissionDate >= To_Date('Jun 15 2020 11:59 PM', 'Mon DD YYYY HH:MI
AM')
GROUP BY firstname, lastname
HAVING count(*) >= 10
ORDER BY numsections DESC, lastname, firstname;

5.
SELECT building as build, room, 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
INNER JOIN Courses c
ON s.courseID = c.courseID
WHERE subjectCode != 'OL'
GROUP BY building, room
HAVING count(*) >= 50
ORDER BY building, room, numstudents;

6.

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SELECT city, state as st, zip, count(*) as numsections
FROM Professor p
INNER JOIN sections s
ON s.professorID = p.professorID
GROUP BY city, state, zip
HAVING count(*) >= 25
ORDER BY numsections, zip;
7.
SELECT city, state as st, zip, count(*) as numprofessors,
To_Char(hiredate, 'YYYY Mon DD HH:MI AM') as earliesthiredate
FROM Professor
GROUP BY city, state, zip, hiredate
HAVING count(*) > 20
ORDER BY hiredate, numprofessors;
8.
SELECT subjectCode as subj, courseNumber as cours, subjectDescription as
subdescription, count(*) as numsections
FROM courses c
INNER JOIN sections s
ON s.courseid = c.courseid
WHERE subjectCode = 'CS'
OR subjectCode = 'WEB'
GROUP BY subjectCode, courseNumber, subjectDescription
HAVING count(*) > 3
ORDER BY subjectdescription, courseNumber
9.
SELECT city, state as st, '$' || tuitionbalance || '.00' as totalbal,
count(*) as "NUMSections"
FROM students
WHERE tuitionbalance >= 200000
AND tuitionbalance < 1000000
GROUP BY city, state, tuitionbalance
HAVING count(*) > 55
ORDER BY tuitionbalance, "NUMSections";
10.
SELECT p.firstname, p.lastname, count(*) as numstudents
FROM professor p
INNER JOIN sections s
ON p.professorID = s.professorID
INNER JOIN Registration r
ON s.sectionID = r.sectionID
INNER JOIN students s
ON r.studentID = s.studentID
WHERE To_Char(admissionDate, 'YYYY') = '2020'
GROUP BY p.firstname, p.lastname
HAVING count(*) >= 5
ORDER BY p.lastname, p.firstname, numstudents

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