

Questions for complex data retrieval from University database having table (Departments, Faculty, Students, Courses, Classrooms, CourseOfferings, Enrollments, CoursePrerequisites, Transcripts, FacultyCourseAssignments)

1. Which departments have more than one faculty member assigned as head?
2. List all students enrolled in courses offered in Fall 2024 with their department names.
3. Find the total number of enrollments per department for Spring 2025.
4. Which faculty members are teaching more than one course in Fall 2024?
5. List students who have a GPA above 3.5 based on their transcript grades.
6. Find courses with more than 30 enrollments in any offering.
7. Which classrooms are used for multiple course offerings in Spring 2025?
8. List faculty who are not teaching any courses in Fall 2024.
9. Find students enrolled in courses from multiple departments in Spring 2025.
10. Which courses have prerequisites that are not offered in Spring 2025?
11. List the top 5 departments by total credits offered in Fall 2024.
12. Find students who have completed all prerequisites for CSC301.
13. Which faculty members have taught the same course in both Fall 2024 and Spring 2025?
14. Find the average enrollment per course offering by department in Fall 2024.
15. List students who are enrolled in courses with a capacity greater than 50 in Spring 2025.
16. Which courses have no enrollments in Spring 2025 despite being offered?
17. Find the faculty member with the highest number of course assignments.
18. List departments where all courses have at least one offering in Fall 2024.
19. Find students who have earned more than 10 credits in Spring 2024.
20. Which classrooms are overbooked (enrollment exceeds capacity) in Fall 2024?
21. List faculty who teach courses with prerequisites in Spring 2025.
22. Find the average grade per course in Spring 2024 transcripts.
23. Which students are enrolled in courses taught by their department head in Fall 2024?
24. Find courses offered in both Fall 2024 and Spring 2025.
25. List students who have not enrolled in any courses in Spring 2025.
26. Which departments have faculty teaching courses outside their own department?
27. Find the total credits earned by each student, grouped by department.
28. List courses with the highest enrollment in each department for Fall 2024.
29. Find faculty who have taught courses in multiple semesters.
30. Which students have taken courses worth more credits than the average student in their department?
31. List courses that have been offered more than once across all semesters.
32. Find students who have failed any course in Spring 2024.
33. Which faculty members are teaching courses with the highest credit value in their department?
34. Find the percentage of students enrolled per course offering in Fall 2024 relative to max enrollment.
35. List students who are taking more courses than the average student in their department in Spring 2025.
36. Find courses where all enrolled students have a GPA above 3.0.
37. Which departments have the highest average faculty teaching load in Fall 2024?
38. Find students who are enrolled in consecutive courses (e.g., CSC101 and CSC201).
39. List classrooms that are used exclusively by one department in Fall 2024.
40. Find the most popular course (highest enrollment) in each semester.
41. Which faculty members have the highest average course enrollment in Fall 2024?
42. Find students who have taken courses in every department offering courses in Fall 2024.
43. List courses with no prerequisites offered in Spring 2025.
44. Find the department with the most diverse course offerings (unique courses) in Fall 2024.
45. Which students have enrolled in courses with the same faculty in multiple semesters?
46. Find courses where the enrollment is less than 50% of the classroom capacity in Fall 2024.
47. List faculty who have never taught a course with prerequisites.
48. Find the average credits per student by department for completed courses.
49. Which courses have been consistently offered in both semesters with increasing enrollment?
50. Find students who have enrolled in courses with the same schedule in Spring 2025.