

SE 2222 Database Systems

Week 9

1 Context

In this lab-work, you're expected to write SQL statements for given questions in order to get familiar with basic SQL statements by

- aggregating data using group functions
- using group functions
- using joins

2 Problem Description

Questions are listed below. You will be using tables created by the demo.sql script.

1. Calculate the average salary for each department and display the department number and average salary.
2. Find the total salary and commission for each job title.
3. Display the total salary for each job title, but only include job titles with a total salary greater than 5000.
4. List the departments with more than three employees and show the department number along with the employee count.
5. Show the average salary for each department where the average salary is greater than 2000, and display the department number along with the average salary.
6. Display the total salary and employee count for each department and job title combination.
7. Find the minimum and maximum salary for each job title and department combination, but only for those with a maximum salary greater than 2500.
8. Retrieve the number of employees in each department with a salary greater than 1500 and show the department number along with the employee count.
9. Display department names and the number of employees working in each department
10. Show the highest salary for each department where the department location is 'NEW YORK', and display the department number and highest salary.