



(CL-2005) Database Systems Lab

Fall 2021

FAST-NUCES Peshawar Campus

Assignment # 01

- There is **40%** penalty for late submission.
- No late submission would be entertained after first week of deadline.
- Copied assignments will be awarded **zero** marks.
- All submissions should be made on Google Class Room.
- Submit a txt file containing queries number and its output
- Note that these assignment marks could be graded through a quiz (viva) in class.

Question # 01

Download the script named “hr.sql” from Google Classroom (Databases/HR Database). Run the script and you will get a database named **hr** with the following tables:

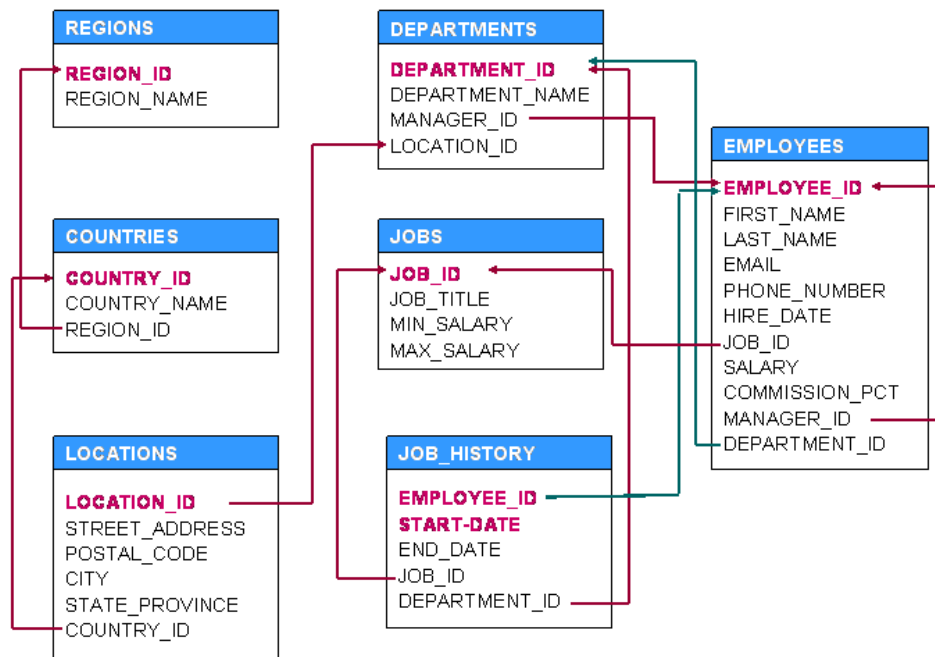


Figure 1: hr schema

Design SQL queries that answer the questions listed below (one query per question).

1. Display the name of the employee who earns highest salary.
2. Display the employee(s) earning the second highest salary.
3. Display the employee(s) earning the third highest salary.
4. Display the employee number and name for employee working as clerk and earning highest salary among clerks.
5. Display the names of accountant who earns a salary more than the highest salary of any clerk.
6. Display the names of clerks who earn a salary more than the lowest salary of any programmer.
7. Display the names of employees who earn a salary more than that of Peter or that of salary greater than that of Lisa.
8. Issue a query to list all the employees who salary is $>$ the average salary of their own dept.
9. Display the names of the employees who earn highest salary in their respective departments.
10. Write a query to display the name and job title of all employees working in dept 20.
11. Display the names of the employees who earn highest salaries in their respective job groups.
12. Write a query to list the employees in dept 20 with the same job as anyone in dept 50.
13. Display the employee names who are working in Finance department.
14. Display the employee names who are working in Toronto.
15. Write a query that would display the employee name, job where each employee works and the name of their dept.
16. Display department names and employee count for those departments having no more than 2 employees.
17. Display the first name, last name, department number, and department name for each employee order by employee last name.
18. Display for all employees, their name, their job title, their department name, the city they are located in, the country name and the region.
19. What is the minimum salaries grouped by department id for those groups having a minimum salary less than 5000. Listed by the minimum salary.