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CMP020L012A	Data Analytics	2022/23

Week-3

Managing Data in RDBMS using SQL

Lab Task

1. **Before starting with the lab task today, check the file which contains sample SQL statements of "EmployeeInfo" database and database tables. Keep the tables defined and ready in the MySQL server. You can copy and paste the statements provided to you step by step to define the tables and populate them with data as it is present in the file.**
   *****This task SHOULD NOT take you more than 15 minutes.**

2. **In "EmployeeInfo" Database, continue executing the following SQLs:**
   a) **Find the employee's name, hiredate and salary for those, whose salary is no more than 2450.**
   b) **Find the highest salary range for salary grade 4 and 5.**
   c) **Find the details about all the projects where the "end date" of the project is null.**
   d) **Represent the employee's salary as "Grade_4_Salary" whose salary is between 2000 and 3000.**
   e) **Find the employee's salary and "revised salary", increased by 20% who are working as analyst.**
   f) **Find the details from department table where the location of the department starts with letter "B" or ends with letter "O".**
   g) **Find the employees name and the department number where the employee's salaries are between 2000 and 3000.**
   h) **Find employee's name, hiredate, salary and commission where the commission is null and hiredate is after 1982-01-01.**
   i) **Find the employee numbers who are working in project number 1004.**
   j) **Generate a report of the 10% updated commission of the salary for the employees whose commission is null.**
   k) **Insert a new record to the department table:**

50	**ADMINISTRATION**	**LA**

l) **Find the length of the department's names have letter "A" in their location names.**
m) **Delete the information about department number 50.**
n) **Find department wise total number of employees and department number in the employee table.**
o) **Find the average of the salaries for each department.**
p) **Find the summation of the salaries for the job "manager".**
q) **Find the average of the salary for each type of job.**
r) **Find the employee's name and hire date whose salaries are not more than 2400 and not less than 1000 order by the hire date.**
s) **Find the department number and department wise average salaries to be presented as "average payroll" only for those whose hire date is before 1982-01-01.**
t) **Find the total number of distinct departments in the employee table.**
u) **Find the employees hire date and job in a descending order of their hire date.**
v) **Display the project details order by the end date in ascending order.**
w) **Find the latest project ending date and its project number.**