

Experiment: 01

Problem title: Design the following database tables, populate the tables with appropriate datasets and answer the followings questions.

Believe you have got many resources and confident about the SQL and database management system already. Please provide enough efforts for the solution of the following problems.

Database Schema for an Employee-Pay scenario

employee(emp_id: integer, emp_name: string, dept_id: integer)

department(dept_id: integer, dept_name: string)

paydetails(emp_id: integer, work_dept_id: integer, basic: integer, DOJ: date)

payroll(emp_id: integer, pay_date: date)

For the above schema, perform the following—

- **Create the tables with the appropriate constraints, insert around 10 records in each of the tables**
- **List the name of employees with department name="Engineering".**
- **List the employees working at the GIS department.**
- **List all the employee names who joined after 1st January 2013**
- **Give names of the employees whose salary>\$10,000**

N.B.: salary=basic+0.45*basic-0.10*basic=1.35*basic

Your report should contain the followings:

- Introduction to the problem.
- Problem statement.
- Designed database (i.e., relational or Entity relationship model)
- Submitted query at the Query processor.
- Results/output
- Conclusion

The report must be handwritten for the all the laboratory tasks and should not be copied by any means.