Department of Computer Science & Engineering, RUET CSE 502, Lab 03, Date: 14-08-2016

Problem title: Design database schema and populate the database with appropriate datasets.

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 a Employee-Pay scenario (primary key column are underlined)

employee(emp id : integer, emp_name: string NOT NULL)
department(dept id: integer, dept name: string NOT NULL)

paydetails(emp id : integer, dept id: integer, basic: integer, deductions: integer, additions:

integer, DOJ: date)

payroll(pay id, emp id: integer, pay date: date, paid amount)

For the above schema, perform the following—

- 1. Create the tables with the appropriate integrity constraints; insert around 10 records in each of the tables
- 2. List all the employee names who joined after 1st January 2013
- 2. List the individual amount paid to each employee on 1st of august 2016.
- 3. List the details of employees whose total salary is between \$50,000 and \$60,000
- 3. Give a count of how many employees are working in each department

Your report should contain the followings:

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

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

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