**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.