## Indian Institute of Engineering Science and Technology, Shibpur Computer Science & Technology

## DBMS Laboratory (CS551) assignments

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## ASSIGNMENT – 3

- 1. In an organization number of departments exists. Each department has a name and unique code. Number of employees work in each department. Each employee has unique employee has unique employee code. Detailed information like name, address, city, basic, date of join are also stored. In a leave register for each employee leave records are kept showing leave type (CL/EL/ML etc.) from date, to-date. When an employee retires or resigns all the leave information pertaining to him are also deleted. Basic salary must be within Rs. 5000 to Rs. 9000. A department cannot be deleted if any employee refers to it. Valid grades are A / B / C. Employee name must be in uppercase only. Default value for joining date is system date. Design & implement the tables with necessary constraints to support the scenario depicted above.
- 2. Try to violate the constraints that you have implemented in the table & note what happens. [Try with suitable INSERT/ UPDATE/ DELETE instruction]
- 3. a) Create a view showing employee code, name, dcode & basic for a particular department.
  - b) Try to ensure a row into the view with valid department & also with invalid ones.
  - c) Find the newly inserted row in the table from which view was created.
  - d) Try to increment basic by Rs. 100/-
  - e) Check it in the original table.
  - f) Delete the row.
- 4. a) Create a view showing empcode, name, deptname, basic, leave type, from date & to date.
  - b) Try to insert a row in the view check what happens?
  - c) Try to increment basic by Rs. 100.
  - d) Delete the view.
- 5. a) Create a table having empcode, name, deptname & basic from existing tables along with the records of the employee who are in a particular department (say, d1) and with a basic Rs. 7000/
  - b) From the existing table add the employees with the basic salary greater than or equal to Rs. 7000/-.
  - c) Alter the table to add a net column.
  - d) Replace net pay with 1.5\* Basic.
  - e) Try to remove the net pay column. [May require no. of steps]
- 6. Drop all the tables that you have created.