

# Indian Institute of Engineering Science and Technology, Shibpur

## Computer Science & Technology

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### DBMS Laboratory (CS551) assignments

Faculty Members: Sekhar Mandal, Asit Kumar Das & Ashish Kumar Layek

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#### ASSIGNMENT – 1

1. Create the following tables:

Table name: EMPLOYEE

Structure:

EMP\_CODE char(5)  
EMP\_NAME char(20)  
DEPT\_CODE char(5)  
DESIG\_CODE char(5)  
GENDER char(1)  
ADDRESS char(25)  
CITY char(20)  
STATE char(20)  
PIN char(6)  
BASIC Number  
JN\_DT Date  
Primary key is EMP\_CODE

Table name: DESIGNATION

Structure:

DESIG\_CODE char(5)  
DESIG\_DESC char(20)  
Primary key is DESIG\_CODE

Table name: DEPARTMENT

Structure:

DEPT\_CODE char(5)  
DEPT\_NAME char(15)  
Primary key is DEPT\_CODE

2. Display the structure of each table.
3. Insert few rows in each table:  
[While entering data in EMPLOYEE table, use DESIG\_CODE which exists in DESIGNATION table and DEPT\_CODE which exists in DEPARTMENT table. In DESIGNATION table, assign code for Manager, Executive, officer, clerk, and helper. In DEPARTMENT table assign code for Personnel, Production, Purchase, Finance, Research departments]
4. In EMP table insert few rows without DEPT\_CODE and BASIC.

5. Find the rows with unassigned DEPT\_CODE.
6. Find the rows with BASIC equal to zero.
7. Find the rows with unassigned Basic [note down the difference between the results obtained in Q.6 and Q.7]
8. Find the average basic salary of the employees.
9. Replace the BASIC with 0 for the rows with unassigned Basic.
10. Again, find the average Basic. ( Note the difference of result obtained in Q.8 & Q.9).
11. Delete the rows with unassigned DEPT\_CODE.
12. Say, Net pay of an employee = Basic+HRA+DA where HRA is 20% of the Basic and DA is 60% of Basic. Show the employee name & Net pay for all employees.
13. Show the EMP\_NAME & BASIC in ascending order of DEPT\_CODE. The employee name must appear in uppercase.
14. Find the employees who have joined after 1st January 2013.
15. Find how many employees have joined in the month of January.
16. Find the maximum and minimum Basic.
17. Find how many Female employees are there?
18. Replace CITY with existing value converted into uppercase for all rows.
19. Find in how many different cities various employees are residing?
20. Display the employee information in the ascending order of DEPT\_CODE and within a Department. Replace CITY with existing value converted into uppercase for all rows.