

**DBMS LAB**  
**FIRST ASSIGNMENT ON SQL**

1. Create the following tables :  
(Do not use foreign key/referential integrity)

Tablename: EMP

Structure :

EMP_CODE	char(5)
EMP_NAME	char(20)
DEPT_CODE	char(5)
DESIG_CODE	char(5)
SEX	char(1)
ADDRESS	char (25)
CITY	char (20)
STATE	char (20)
PIN	char (6)
BASIC	Number
JN_DT	Date

Primary key is EMP\_CODE

Tablename : DESIGNATION

Structure :

DESIG_CODE	char(5)
DESIG_DESC	char(20)

Primary key is DESIG\_CODE

Tablename : 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 EMP table, use DESIG\_CODE which is existing in DESIGNATION table and DEPT\_CODE which is existing 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 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.10.)
11. Delete the rows with unassigned DEPT\_CODE .
12. Say, Net pay of an employee= Basic+HRA+DA where HRA is 50% of the Basic & DA is 40% of Basic. Show the employee name & Net pay for all employees.
13. Show the EMP\_NAME & BASIC in the ascending order of DEPT\_CODE . The employee name must appear in uppercase .
14. Find the employees who have joined after 1<sup>st</sup> January 1990.
15. Find, how many employees have joined in the month of January?
16. Find the maximum & 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, it should be in the descending order of BASIC .