

## **DBMS LAB (Assignment 2)**

- Create Table EMP (FName, Minit, LName, SSN, BDate, Address, Sex, Salary, DepNo, Experience, SuperSSN) where SSN is the Primary key, SuperSSN is the Foreign key which references EMP(SSN) ON DELETE SET NULL.

### **Constraints:**

1. FNAME, LNAME and SSN should not be NULL
2. SEX should only accept values 'M', 'F', 'm' or 'f'
3. Default value of salary should be '800'

Insert the following data in the table using INSERT Query

FName	Minit	LName	SSN	BDate	Address	Sex	Salary	SuperSSN	DepNo
Doug	E	Gilbert	554433221	09-JUN-60	11 S 59 E, Salt Lake City, UT	M	80000	NULL	3
Joyce		PAN	543216789	07-FEB-78	35 S 18 E, Salt Lake City, UT	F	70000	NULL	2
Frankin	T	Wong	333445555	08-DEC-45	638 Voss, Houston, TX	M	40000	554433221	5
Jennifer	S	Wallace	987654321	20-JUN-31	291 Berry, Bellaire, TX	F	43000	554433221	4
John	B	Smith	123456789	09-JAN-55	731 Fondren, Houston, TX	M	30000	333445555	5
Ramesh	K	Narayan	666884444	15-SEP-52	975 Fire Oak, Humble, TX	M	38000	333445555	5
Joyce	A	English	453453453	31-JUL-62	5631 Rice, Houston, TX	F	25000	333445555	5
James	E	Borg	888665555	10-NOV-27	450 Stone, Houston, TX	M	55000	543216789	1
Alicia	J	Zelaya	999887777	19-JUL-58	3321 Castle, Spring, TX	F	25000	987654321	4

### **Queries**

1. Delete the attribute Experience from the EMP table
2. List the names of all employees who work in department 5
3. List names and salaries of all employee ordered by salary.
4. List the name of employees whose salary is between 30000 and 50000.
5. List the name and address of employees who lives in Houston.
6. List the name of employees who doesn't has supervisor.

7. List the name of all female employees.
  8. Rename the attribute 'Minit' to 'MiddleName
  9. Change the salary to 100000 where SSN = “123456789”
  10. Update the EMP record by increasing 10% of salary who is either working in either department 1 or 3
- Create Table Department ( DName, DepNo, MgrSSN, MgrSDate) where DepNo is the primary key, Dname is the unique key

**Constraints:**

1. Dname, DepNo., MgrSSN should not be NULL

Insert the following data in the table using INSERT Query

DName	DepNo	MgrSSN	MgrDate
Manufacture	1	888665555	19-JUN-71
Administration	2	543216789	04-JAL-99
Headquarter	3	554433221	22-SEP-55
Finance	4	987654321	01-JAN-85
Research	5	333445555	22-MAY-78

**Queries**

1. Add MgrSSN as the foreign key which references EMP(SSN) ON DELETE SET NULL
2. Change value to “Architecture” where Dname = “ Manufacture”
3. List the Department Names where Manager start date is greater than 01-JAN-85
4. List The Department Names order by MgrSSN
5. Add an attribute MgrName
6. Insert the values to the column MgrName
7. Delete the attribute MgrName
8. Delete the Table Department

