EXPERIMENT NO: - 3

AIM: - Demonstration of relation database creation EMPLOYEE and execution of Simple queries**.**

Problem Definition:

Create a relation EMPLOYEE as,

EMPLOYEE (ENUM, FNAME, MNAME, LNAME, BIRTHDATE, GENDER,
SSN, JOB_TITLE, SALARY, HIREDATE, TAX, DEPARMENT)

The logical structure of EMPLOYEE is;

```
Attribute Name              Data Description
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ENUM                        NUMBER(4)
FNAME                       VARCHAR(15)
LNAME                       VARCHAR(15)
MNAME                       VARCHAR(1)
BIRTHDATE                   DATE
GENDER                      CHAR(1)
SSN                         CHAR(10)
JOB_TITLE                   VARCHAR(15)
SALARY                      NUMBER(7,2)
HIREDATE                    DATE
TAX                         NUMBER(6,2)
DEPARTMENT                  VARCHAR(20)
```

ENUM	FNAME	MNAME	LNAME	BIRTHDATE	SALARY	GENDER
9201	Sangeet	R	Shrama	08-NOV-1965	1200900.00	M
9202	Rajesh	D	Khurana	19-DEC-1968	1155700.00	M
9203	Awaghoot	S	Rohi	03-AUG-1972	1050500.00	M
9204	Rachana	P	Roy	16-APR-1974	989550.00	F
9205	Rahul	A	Bajaj	28-JUL-1973	1010099.00	M
9206	Jyotirmay	V	Kapoor	02-MAR-1975	925000.00	M
9207	Kamal	P	Gupta	07-JUN-1977	860800.00	M
9208	Vedant	H	Malhotra	31-OCT-1976	910500.00	M
9209	Preetika	J	Lamba	11-SEP-1976	86088.00	F
9210	Neeta	S	Samy	30-JAN-1971	1070400.00	F

ENUM	SSN	JOB_TITLE	DEPARTMENT	HIREDATE	TAX
9201	11MH456633	Professor	Computer Sci	16-DEC-1990	120090.00
9202	10MH445766	Professor	Nano Computing	08-AUG-1991	115570.00
9203	25MH778243	Asst. Professor	Computer Sci	31-AUG-1995	105050.00
9204	22MH908754	Sr. Lecturer	Nano Computing	13-FEB-1997	98955.00
9205	23MH982340	Asst. Professor	Biotechnology	24-MAY-1996	101009.00
9206	14MH223789	Sr. Lecturer	Biotechnology	25-APR-1999	92500.00
9207	12MH895430	Lecturer	Biotechnology	16-JUN-1999	86080.00
9208	17MH567098	Lecturer	Nano Computing	23-SEP-1998	91051.00
9209	19MH785634	Lecturer	Computer Sci	06-OCT-1997	86080.00
9210	08MH781098	Asst. Professor	Nano Computing	12-NOV-1994	107040.00

Table Design requirement:

1. The entity integrity in EMPLOYEE relation is maintained over the ENUM attribute which has the base value starting at 9201.
2. It required that in EMPLOYEE the columns FNAME, LNAME, GENDER, BIRTHDATE, HIREDATE, SALARY, TAX, DEPARMENT, JOB_TITLE and SSN must always has an associated values.
3. The values for MNAME in EMPLOYEE may be null, if not present.
4. The attribute GENDER can hold anyone of the two values, namely M and F.
5. The valid JOB_TITLE values are Lecturer, Professor, Asst. Professor and Sr. Lecturer only.
6. The existing department in an institute are Biotechnology, Computer Science, Nano Technology and Information Technology.
7. The SSN values are unique for each employee with respect to other.

Queries:

1. Write the code to create the table a specified in logical schema.
2. Write the code to enter the values into the table.
3. Write the code to list the all attributes for the employees who are professors.
4. Write the code to display the EMPLOYEE records in the format as depicted in the table content of the experiment.
5. Change the JOB_TITLE of the employee whose personnel number is 9204.

6. Delete an employee whose name is Jyotirmay who was hired on 25-04-1999 and who is a Sr. lecturer in the institute.

7. Write the code that will restore the EMPLOYEE data to its original status as was in Query-4.

8. Display for each employee the first name, social security number, designation and department to which the employee is posted.

9. Insert into EMPLOYEE a new employee record as;

    9211, 'Deepak', 'Lakhanpal', 'M', 28-FEB-1978, 120000.00,'M', '15OR333567',

    'Lecturer', 'Biotechnology', 22-APR-1999, 12000.00