**EXPERIMENT NO:2**

**Consider the database for an organisation. Write the queries for the following:**

* **create the database**

mysql> create database emp;

Query OK, 1 row affected (0.01 sec)

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| ammu |

| emp |

| information\_schema |

| mysql |

| performance\_schema |

| sys |

+--------------------+

6 rows in set (0.01 sec)

* **select the current**

mysql> use emp;

Database changed

* **Create the following tables.**

**employee (emp\_no,emp\_name,DOB, address, doj, mobile\_no, dept\_no, salary).**

**department (dept\_no, dept\_name, location).**

* **Include necessary constraints**

mysql> create table employee(emp\_no int(15) not null primary key,emp\_name varchar(25) not null,DOB date not null,address varchar(100) not null,doj date not null,mobile\_no int(10) not null,dept\_no int(15) default null,salary int(10) not null);

Query OK, 0 rows affected, 4 warnings (0.04 sec)

mysql> desc employee;

+-----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------+--------------+------+-----+---------+-------+

| emp\_no | int | NO | PRI | NULL | |

| emp\_name | varchar(25) | NO | | NULL | |

| DOB | date | NO | | NULL | |

| address | varchar(100) | NO | | NULL | |

| doj | date | NO | | NULL | |

| mobile\_no | int | NO | | NULL | |

| dept\_no | int | YES | | NULL | |

| salary | int | NO | | NULL | |

+-----------+--------------+------+-----+---------+-------+

8 rows in set (0.01 sec)

mysql> create table department(dept\_no int(20) not null primary key,dept\_name varchar(25) not null,location varchar(100) not null);

Query OK, 0 rows affected, 1 warning (0.04 sec)

mysql> desc department;

+-----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------+--------------+------+-----+---------+-------+

| dept\_no | int | NO | PRI | NULL | |

| dept\_name | varchar(25) | NO | | NULL | |

| location | varchar(100) | NO | | NULL | |

+-----------+--------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

* **List all the tables in the current database**

mysql> show tables;

+---------------+

| Tables\_in\_emp |

+---------------+

| department |

| employee |

+---------------+

2 rows in set (0.00 sec)

* **Display the structure of the employee table**

mysql> desc employee;

+-----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------+--------------+------+-----+---------+-------+

| emp\_no | int | NO | PRI | NULL | |

| emp\_name | varchar(25) | NO | | NULL | |

| DOB | date | NO | | NULL | |

| address | varchar(100) | NO | | NULL | |

| doj | date | NO | | NULL | |

| mobile\_no | int | NO | | NULL | |

| dept\_no | int | YES | | NULL | |

| salary | int | NO | | NULL | |

+-----------+--------------+------+-----+---------+-------+

8 rows in set (0.00 sec)

* **Add a new column Designation to the employee table**

mysql> alter table employee add designation varchar(20) not null;

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc employee;

+-------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+--------------+------+-----+---------+-------+

| emp\_no | int | NO | PRI | NULL | |

| emp\_name | varchar(25) | NO | | NULL | |

| DOB | date | NO | | NULL | |

| address | varchar(100) | NO | | NULL | |

| doj | date | NO | | NULL | |

| mobile\_no | int | NO | | NULL | |

| dept\_no | int | YES | | NULL | |

| salary | int | NO | | NULL | |

| designation | varchar(20) | NO | | NULL | |

+-------------+--------------+------+-----+---------+-------+

9 rows in set (0.01 sec)

* **Drop the column location from Dept table**

mysql> alter table department drop column location;

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc department;

+-----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------+-------------+------+-----+---------+-------+

| dept\_no | int | NO | PRI | NULL | |

| dept\_name | varchar(25) | NO | | NULL | |

+-----------+-------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

* **Drop the tables**

mysql> drop table employee;

Query OK, 0 rows affected (0.02 sec)

mysql> drop table department;

Query OK, 0 rows affected (0.10 sec)

* **Delete the database**

mysql> drop database emp;

Query OK, 0 rows affected (0.02 sec)

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| ammu |

| information\_schema |

| mysql |

| performance\_schema |

| sys |

+--------------------+

5 rows in set (0.00 sec)