Experiment No: 8

Title : • Study & Implementation of different types of constraints

*Objective***:**

      To practice and implement constraints

LAB PRACTICE ASSIGNMENT:

1. Create a table called EMP with the following structure.

   Name Type

   ------------ ----------------------------
   EMPNO NUMBER (6)
   ENAME VARCHAR2 (20)
   JOB VARCHAR2 (10)
   DEPTNO NUMBER (3) SAL
   NUMBER (7,2)

   Allow NULL for all columns except ename and job.
2. Add constraints to check, while entering the empno value (i.e) empno > 100.
3. Define the field DEPTNO as unique.
4. Create a primary key constraint for the table(EMPNO).

```
mysql> CREATE TABLE EMP (
    ->     EMPNO INT CHECK (EMPNO > 100),
    ->     ENAME VARCHAR(20) NOT NULL,
    ->     JOB VARCHAR(10) NOT NULL,
    ->     DEPTNO INT UNIQUE,
    ->     SAL DECIMAL(7, 2),
    ->     PRIMARY KEY (EMPNO)
    -> );
Query OK, 0 rows affected (0.05 sec)
```

5. Write queries to implement and practice constraints.

```
mysql> INSERT INTO EMP (EMPNO, ENAME, JOB, DEPTNO, SAL)
    -> VALUES (101, 'John Doe', 'Manager', 10, 5000.00);
Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO EMP (EMPNO, ENAME, JOB, DEPTNO, SAL)
    -> VALUES (99, 'Jane Smith', 'Analyst', 20, 4500.00);
ERROR 3819 (HY000): Check constraint 'emp_chk_1' is violated.
```