✓ ASSIGNMENT NO 8

1. Write MySQL command to create the Table 'LIBRARY' with given constraints.

```
CREATE TABLE LIBRARY (
  Bookld INT(10) PRIMARY KEY,
  BookName VARCHAR(40) NOT NULL,
  Type CHAR(4),
  Author VARCHAR(40),
  No Copies INT(6),
  Price DECIMAL(8,2)
);
2. Create following tables and add constraints give valid names to constraints
  Table name: Course
  Column name constraint
  Course_id primary key
  course_name not null
  Table name :Students
  student_id primary key
  student_name not null
  email check
  ph_no unique
  c_id foreign key
CREATE TABLE Course (
  Course_id INT PRIMARY KEY CONSTRAINT pk_course_id,
  course_name VARCHAR(100) NOT NULL CONSTRAINT nn_course_name
);
-- Creating the Students table
CREATE TABLE Students (
  student id INT PRIMARY KEY CONSTRAINT pk student id,
  student_name VARCHAR(100) NOT NULL CONSTRAINT nn_student_name,
  email VARCHAR(100) CHECK (email LIKE '%@%.%') CONSTRAINT chk_email,
  ph_no VARCHAR(15) UNIQUE CONSTRAINT uq_ph_no,
  c id INT,
  FOREIGN KEY (c_id) REFERENCES Course(Course_id) CONSTRAINT fk_c_id
);
3. Create employee_data and department_data tables .
Department_data
d id int,
department_name varchar(20)
Employee data
e_id int,
ename varchar(20),
ph_no int,
email varchar(20),
d id int.
```

Add all constraints to the above table using the alter command.

```
-- Creating the Department_data table
CREATE TABLE department data (
  d_id INT PRIMARY KEY CONSTRAINT pk_d_id,
  department_name VARCHAR(20) CONSTRAINT nn_department_name NOT NULL
);
-- Creating the Employee data table
CREATE TABLE employee_data (
  e id INT PRIMARY KEY CONSTRAINT pk e id,
  ename VARCHAR(20) CONSTRAINT nn_ename NOT NULL,
  ph_no INT CONSTRAINT uq_ph_no UNIQUE,
  email VARCHAR(20) CONSTRAINT chk_email CHECK (email LIKE '%@%.%'),
  FOREIGN KEY (d_id) REFERENCES department_data(d_id) CONSTRAINT fk_d_id
);
4. Drop all constraints applied on employee data and department data table.
-- Drop the primary key constraint from department_data
ALTER TABLE department data DROP CONSTRAINT pk d id;
-- Drop the NOT NULL constraint from department name
ALTER TABLE department_data DROP CONSTRAINT nn_department_name;
-- Drop the primary key constraint from employee_data
ALTER TABLE employee_data DROP CONSTRAINT pk_e_id;
-- Drop the NOT NULL constraint from ename
ALTER TABLE employee data DROP CONSTRAINT nn ename;
-- Drop the unique constraint on ph no
ALTER TABLE employee_data DROP CONSTRAINT uq_ph_no;
-- Drop the CHECK constraint on email
ALTER TABLE employee data DROP CONSTRAINT chk email;
-- Drop the foreign key constraint from d_id
ALTER TABLE employee data DROP CONSTRAINT fk d id;
```