

```

1  #DDL 4 operations 1.create, alter, drop, truncate
2  #DML select, insert, update, delete
3
4  # first lab work
5  #activity to design a university management system using ddl commands (create, alter, and drop) in mysql.
6
7  • CREATE DATABASE UniversityDB;
8  • USE UniversityDB;
9
10 • CREATE TABLE Departments (
11     DeptID INT PRIMARY KEY AUTO_INCREMENT,
12     DeptName VARCHAR(100) NOT NULL
13 );
14
15
16 #professors tabel
17
18 • CREATE TABLE Professors (
19     ProfID INT PRIMARY KEY AUTO_INCREMENT,
20     ProfName VARCHAR(100) NOT NULL,
21     DeptID INT,
22     Salary DECIMAL(10,2),
23     FOREIGN KEY (DeptID) REFERENCES Departments(DeptID)
24 );
25
26 #courses tabel
27
28 • CREATE TABLE Courses (
29     CourseID INT PRIMARY KEY AUTO_INCREMENT,
30     CourseName VARCHAR(100) NOT NULL,
31     DeptID INT,
32     FOREIGN KEY (DeptID) REFERENCES Departments(DeptID)
33 );
34 #students tabel
35
36 • CREATE TABLE Students (
37     StudentID INT PRIMARY KEY AUTO_INCREMENT,
38     StudentName VARCHAR(100) NOT NULL,
39     Age INT,
40     DeptID INT,
41     FOREIGN KEY (DeptID) REFERENCES Departments(DeptID)
42 );
43
44 #Enrollments Table (relationship between Students & Courses)
45

```

```
--
46 • CREATE TABLE Enrollments (
47     EnrollID INT PRIMARY KEY AUTO_INCREMENT,
48     StudentID INT,
49     CourseID INT,
50     FOREIGN KEY (StudentID) REFERENCES Students(StudentID),
51     FOREIGN KEY (CourseID) REFERENCES Courses(CourseID)
52 );
53
54
55 #Alter commands
56 #Add a new column PhoneNumber to Students
57
58 • ALTER TABLE Students
59     ADD PhoneNumber VARCHAR(15);
60
61 # Modify CourseName in Courses to allow up to 150 characters
62 • ALTER TABLE Courses
63     MODIFY CourseName VARCHAR(150);
64
65 #Remove Salary column from Professors
66 • ALTER TABLE Professors
67     DROP COLUMN Salary;
68
```

```

67 DROP TABLE Enrollments;
68
69 #DROP Example (Remove Enrollments table)
70 • DROP TABLE Enrollments;
71
72 • INSERT INTO Departments (DeptName) VALUES
73 ('Computer Science'),
74 ('Mathematics'),
75 ('Physics'),
76 ('Chemistry'),
77 ('Biology');
78
79 • INSERT INTO Students (StudentName, Age, DeptID, PhoneNumber) VALUES
80 ('Rahul Sharma', 20, 1, '9876543210'),
81 ('Priya Mehta', 21, 2, '9123456780'),
82 ('Amit Kumar', 19, 1, '9988776655'),
83 ('Neha Singh', 22, 3, '9001122334'),
84 ('Suresh Rao', 20, 2, '8899776655');
85
86 • SELECT *
87 FROM Students;

```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content: ☐

	StudentID	StudentName	Age	DeptID	PhoneNumber
▶	11	Rahul Sharma	20	1	9876543210
	12	Priya Mehta	21	2	9123456780
	13	Amit Kumar	19	1	9988776655
	14	Neha Singh	22	3	9001122334
	15	Suresh Rao	20	2	8899776655
*	NULL	NULL	NULL	NULL	NULL