

**Name :-** Prashant Suresh Shirgave

**Roll No:-**3

**Batch:**T1

**Class:** TY(CSE-AIML)

### **Experiment No. 3**

**Title:** DDL statements.

**Objective:** Study of DDL statements like create, alter, truncate, rename & drop.

#### **Theory:**

##### **1. Create table:**

create table tablename (column1 data type,....., column n data type);

##### **2. Alter table :**

1. alter table tablename add columnname datatype;
2. alter table tablename modify columnname newdatatype;
3. alter table tablename drop column columnname;
4. alter table tablename ADD CONSTRAINT <constraint name> PRIMARY KEY (<attribute list>);

- Consider the student schema as shown below:

Student (Roll no, Name, Address, class)

Department(Id, Name, No. of students)

Elective\_Course(Name, Course\_Id)

##### **3. Rename:**

1. Alter table tablename rename to new\_table\_name;
2. Alter table tablename rename column oldname to newname;
3. ALTER TABLE table\_name CHANGE old\_column\_name new\_col\_name Data Type;

##### **4. Drop:**

1. Drop table tablename;
2. Alter table tablename Drop Column Columnname;

##### **5. Truncate:**

Truncate table tablename;

- **Write the correct syntax statements to do the following:**

##### **1. Create relation/table for Student, Department, Elective\_Course.**

-- Creating Student table

CREATE TABLE Student (

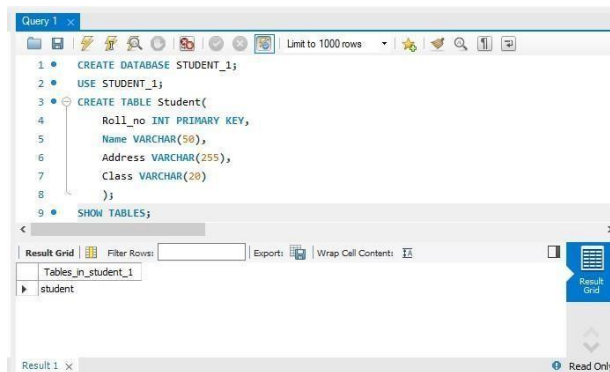
Roll\_no INT PRIMARY KEY,

Name VARCHAR(50),

Address VARCHAR(255),

Class VARCHAR(20)

);



-- Creating Department table

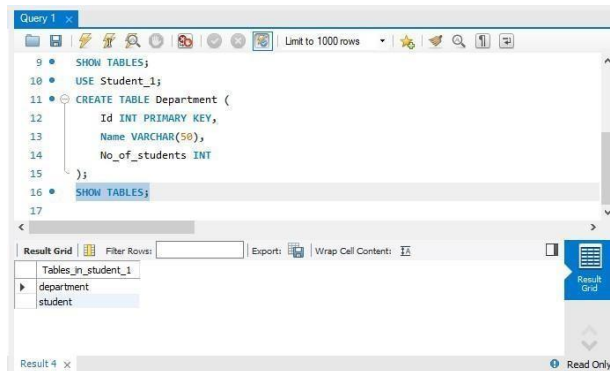
CREATE TABLE Department (

Id INT PRIMARY KEY,

Name VARCHAR(50),

No\_of\_students INT

);



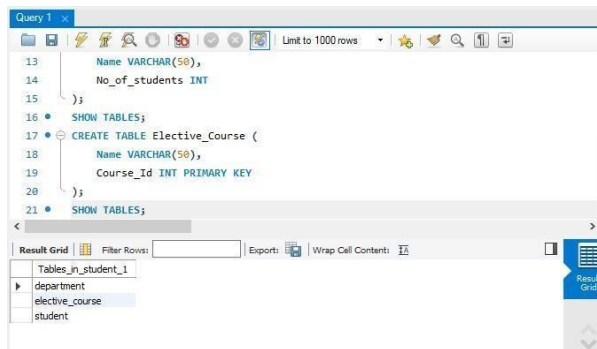
-- Creating Elective\_Course table

CREATE TABLE Elective\_Course (

Name VARCHAR(50),

Course\_Id INT PRIMARY KEY

);

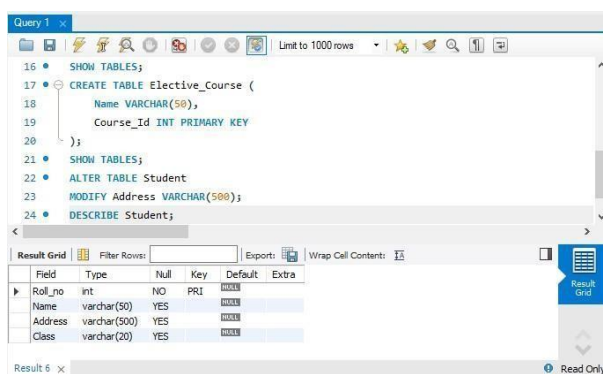


## 2. Use the Alter command to change the table structure e.g. Change the width of address type, no. of student, etc.

-- Modifying Address column width in Student table

ALTER TABLE Student

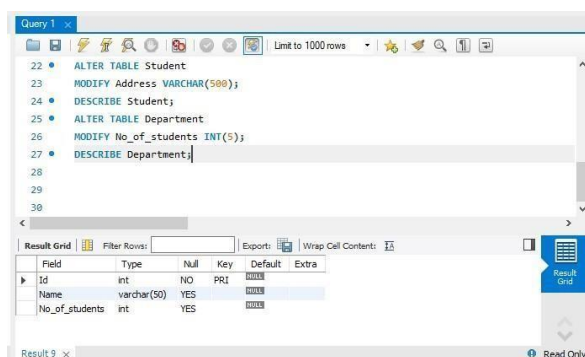
MODIFY Address VARCHAR(500);



-- Modifying No\_of\_students column in Department table

ALTER TABLE Department

MODIFY No\_of\_students INT(5);

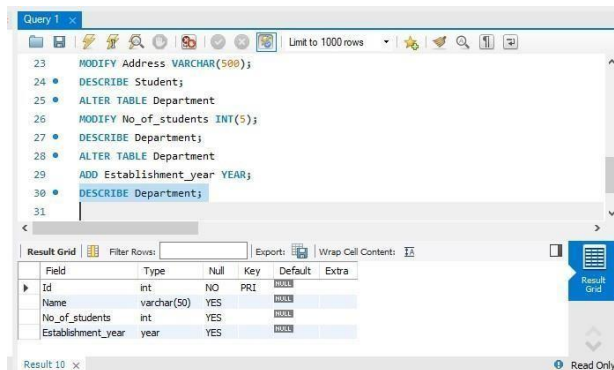


### 3. Add one column Establishment\_year in Department table

-- Adding Establishment\_year column in Department table

ALTER TABLE Department

ADD Establishment\_year YEAR;

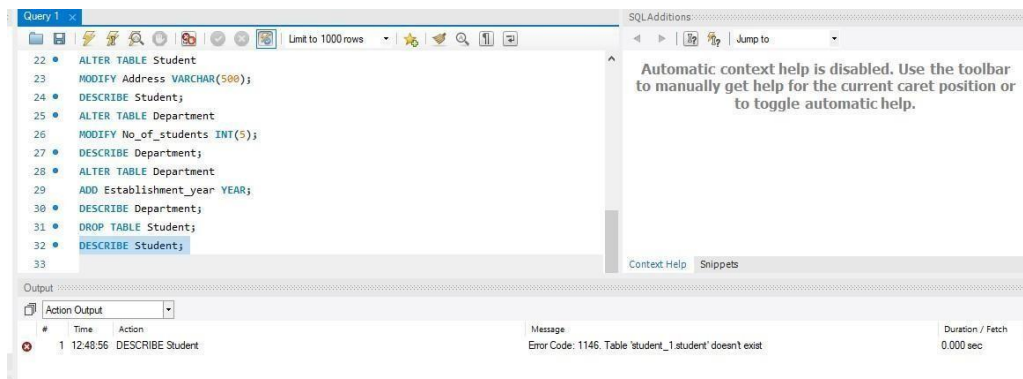


### 4. Use different form of drop statement to perform following.

#### a. To delete an entire table.

-- Dropping the Student table

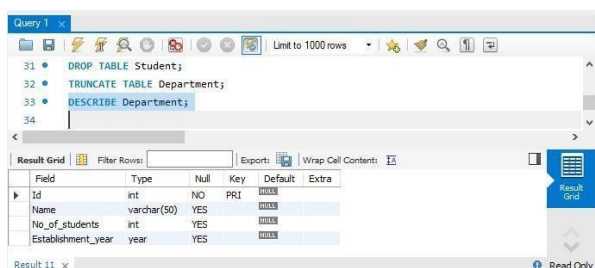
DROP TABLE Student;



#### b. To observe the effect of truncate statement:

-- Truncating the Department table

TRUNCATE TABLE Department;

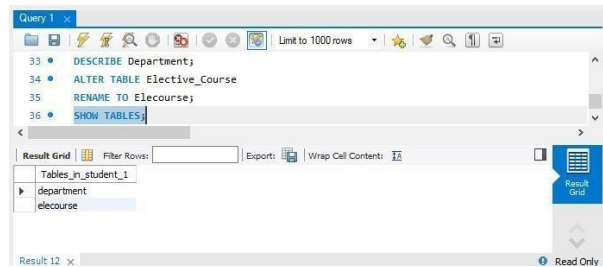


#### 4. Rename Elective\_Course table to Elecourse:

-- Renaming Elective\_Course table to Elecourse

```
ALTER TABLE Elective_Course
```

```
RENAME TO Elecourse;
```



**Outcome:** Students are able to create alter and remove tables from the database.