**E**XPERIMENT N0. 5 (DDL COMMANDS)

Aim:

* Create a schema called College.
* Create tables for students (attributes: student id, name, gender, subject, marks and grade), faculty (attributes: faculty id, name, course and pass percentage), department (attributes: department id, name, section, strength and pass percentage) and activity (attributes: activity id, name, strength and category)
* Add and modify:
  + Address in students table, change datatype size of student name and make student id primary key.
  + Add faculty total mentor details, make faculty id as primary key.
  + Add number of students in wise in department table and make department id as primary key.
  + Add faculty name to activity table, change the datatype size of activity name and make activity id as primary key.

**SOLUTION:**

**Components:**

1. DDL (Data Definition Language):DDL or Data Definition Language actually consists of the SQL commands that can be used to define the database schema. It simply deals with descriptions of the database schema and is used to create and modify the structure of database objects in the database.

Examples of DDL commands:

* + [CREATE](https://www.geeksforgeeks.org/sql-create/) – is used to create the database or its objects (like table, index, function, views, store procedure and triggers).
  + [DROP](https://www.geeksforgeeks.org/sql-drop-truncate/) – is used to delete objects from the database.
  + [ALTER](https://www.geeksforgeeks.org/sql-alter-add-drop-modify/)-is used to alter the structure of the database.
  + [TRUNCATE](https://www.geeksforgeeks.org/sql-drop-truncate/)–is used to remove all records from a table, including all spaces allocated for the records are removed.
  + [COMMENT](https://www.geeksforgeeks.org/sql-comments/) –is used to add comments to the data dictionary.
  + [RENAME](https://www.geeksforgeeks.org/sql-alter-rename/)–is used to rename an object existing in the database.

**CREATE SCHEMA College;**

**create table College.student(stdid integer, stdname varchar (50), gender varchar (20), subject varchar (40), marks integer,grade varchar(20));**

**create table College.faculty(fac\_id integer, faculty\_name varchar (50), course varchar (50),passpercentge integer);**

**create table College.department (dept\_id integer,dept\_name varchar(50),section varchar(10),strength varchar(50),pass\_percentage integer);**

**create table College.activity(activity\_id integer,activity\_name varchar(30),strength varchar(50),category varchar(60));**

**Alter table College.student add (address varchar (50));**

**Alter table College.student modify stdname varchar (100);**

**Alter table College.student add (primary key (stdid));**

**Alter table College.faculty add (primary key (fclty\_id));**

**Alter table College.faculty add (total\_mentor\_details varchar (50));**

**Alter table College.department add (primary key (dept\_id));**

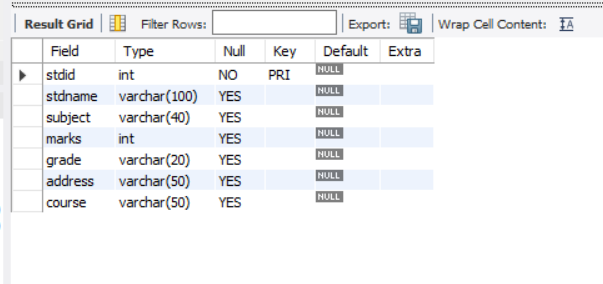
**Alter table College.department add (no\_of\_students\_in\_wise varchar (50));**

**Alter table College.activity add (faculty\_ name varchar (50));**

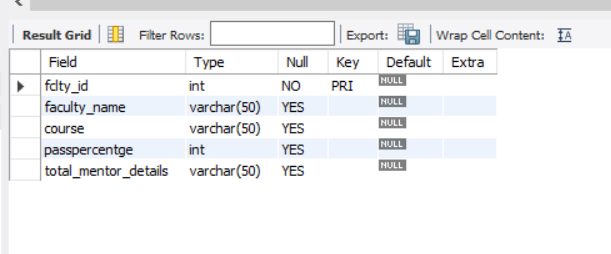
**Alter table College.activity modify activity\_name varchar (100);**

**Alter table College.activity add (primary key activity(activity\_id));**

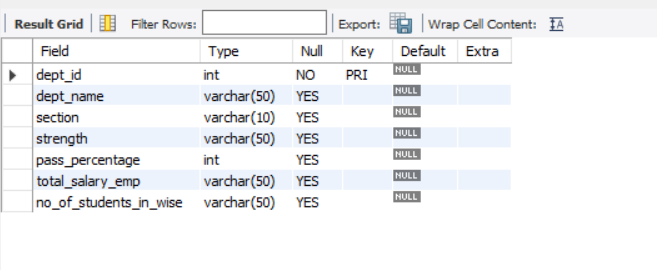
**desc College.student;**

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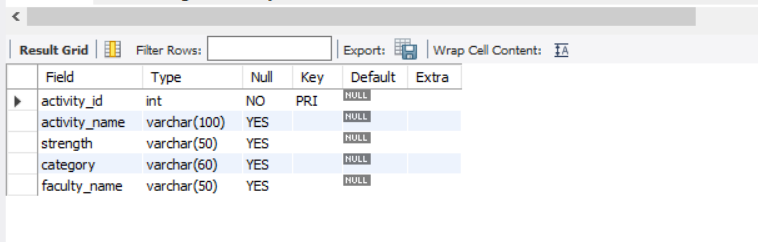
**desc College.faculty;**

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**desc College.department;**

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**desc College.activity;**

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