EXPERIMENT – 5

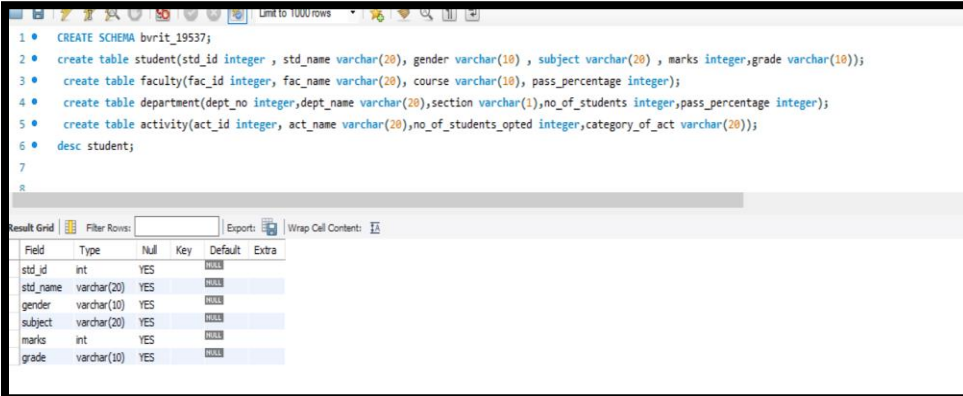## DDL COMMANDS (COLLEGE SCHEMA)

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:

    1. Address in students table, change datatype size of student name and make student id primary key.

    2. Add faculty total mentor details, make faculty id as primary key.

    3. Add number of students in wise in department table and make department id as primary key.

4. Add faculty name to activity table, change the datatype size of activity name and make activity id as primary key.

Entity: Object that is relevant to given system. Represented as rectangle.

Attribute: Trait of an entity, relationship or other attribute. Represented by oval.

Primary Key: A **primary key** is a column or a set of columns in a table whose values uniquely identify a row in the table

```
1 •    CREATE SCHEMA bvrit_19537;
2 •    create table student(std_id integer , std_name varchar(20), gender varchar(10) , subject varchar(20) , marks integer,grade varchar(10));
3 •     create table faculty(fac_id integer, fac_name varchar(20), course varchar(10), pass_percentage integer);
4 •     create table department(dept_no integer,dept_name varchar(20),section varchar(1),no_of_students integer,pass_percentage integer);
5 •     create table activity(act_id integer, act_name varchar(20),no_of_students_opted integer,category_of_act varchar(20));
6
7 •    desc faculty;
8
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
fac_id	int	YES		NULL	
fac_name	varchar(20)	YES		NULL	
course	varchar(10)	YES		NULL	
pass_percentage	int	YES		NULL	

```
1 •    CREATE SCHEMA bvrit_19537;
2 •    create table student(std_id integer , std_name varchar(20), gender varchar(10) , subject varchar(20) , marks integer,grade varchar(10));
3 •     create table faculty(fac_id integer, fac_name varchar(20), course varchar(10), pass_percentage integer);
4 •     create table department(dept_no integer,dept_name varchar(20),section varchar(1),no_of_students integer,pass_percentage integer);
5 •     create table activity(act_id integer, act_name varchar(20),no_of_students_opted integer,category_of_act varchar(20));
6
7 •    desc department;
8
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
dept_no	int	YES		NULL	
dept_name	varchar(20)	YES		NULL	
section	varchar(1)	YES		NULL	
no_of_students	int	YES		NULL	
pass_percentage	int	YES		NULL	

```sql
3 •  alter table student add(address varchar(20));
4 •  alter table student modify std_name varchar(50);
5 •  alter table student add(primary key(std_id));
6 •  create table faculty(fac_id integer, fac_name varchar(20), course varchar(10), pass_percentage integer);
7 •  create table department(dept_no integer,dept_name varchar(20),section varchar(1),no_of_students integer,pass_percentage integer);
8 •  create table activity(act_id integer, act_name varchar(20),no_of_students_opted integer,category_of_act varchar(20));
9 •  desc student;
10
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Field	Type	Null	Key	Default	Extra
std_id	int	NO	PRI	NULL	
std_name	varchar(50)	YES		NULL	
gender	varchar(10)	YES		NULL	
subject	varchar(20)	YES		NULL	
marks	int	YES		NULL	
grade	varchar(10)	YES		NULL	
address	varchar(20)	YES		NULL	

```sql
2 •  create table student(std_id integer , std_name varchar(20), gender varchar(10) , subject varchar(20) , marks integer,grade varchar(10));
3 •  alter table student add(address varchar(20));
4 •  alter table student modify std_name varchar(50);
5 •  alter table student add(primary key(std_id));
6
7 •  create table faculty(fac_id integer, fac_name varchar(20), course varchar(10), pass_percentage integer);
8 •  alter table faculty add(total_mentor_details varchar(30));
9 •  alter table faculty add(primary key(fac_id));
10
11 • create table department(dept_no integer,dept_name varchar(20),section varchar(1),no_of_students integer,pass_percentage integer);
12 • alter table department add(no_of_stu_wise integer);
13 • alter table department add(primary key(dept_no));
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Field	Type	Null	Key	Default	Extra
fac_id	int	NO	PRI	NULL	
fac_name	varchar(20)	YES		NULL	
course	varchar(10)	YES		NULL	
pass_percentage	int	YES		NULL	
total_mentor_details	varchar(30)	YES		NULL	

```
10
11 •   create table department(dept_no integer,dept_name varchar(20),section varchar(1),no_of_students integer,pass_percentage integer);
12 •   alter table department add(no_of_stu_wise integer);
13 •   alter table department add(primary key(dept_no));
14
15 •   create table activity(act_id integer, act_name varchar(20),no_of_students_opted integer,category_of_act varchar(20));
16 •   alter table activity add(faculty_name varchar(20));
17 •   alter table activity modify act_name varchar(50);
18 •   alter table activity add(primary key(act_id));
19
20 •   desc department;
21
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Field	Type	Null	Key	Default	Extra
dept_no	int	NO	PRI	NULL	
dept_name	varchar(20)	YES		NULL	
section	varchar(1)	YES		NULL	
no_of_students	int	YES		NULL	
pass_percentage	int	YES		NULL	
no_of_stu_wise	int	YES		NULL	

```
     alter table department add(primary key(dept_no));
14
15 •   create table activity(act_id integer, act_name varchar(20),no_of_students_opted integer,category_of_act varchar(20));
16 •   alter table activity add(faculty_name varchar(20));
17 •   alter table activity modify act_name varchar(50);
18 •   alter table activity add(primary key(act_id));
19
20 •   desc activity;
21
22
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Field	Type	Null	Key	Default	Extra
act_id	int	NO	PRI	NULL	
act_name	varchar(50)	YES		NULL	
no_of_students_opted	int	YES		NULL	
category_of_act	varchar(20)	YES		NULL	
faculty	varchar(20)	YES		NULL	
faculty_name	varchar(20)	YES		NULL	