Practical No.2: To perform SQL DDL commands

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1. Show Databases:

2. Create Database:

```
mysql> create database Student;
Query OK, 1 row affected (0.17 sec)
mysql> use student;
Database changed
```

3. Create Table:

mysql> create table stud_Info(st_id int(2),st_name varchar(10),st_course varchar(10),st_marks int(4)); Query OK, 0 rows affected, 2 warnings (1.59 sec)

4. Describe Table:

```
mysql> desc stud_info;
                         | Null | Key | Default | Extra |
Field
           Type
 st id
            int
                          YES
                                       NULL
                          YES
 st_name
             varchar(10)
                                       NULL
             varchar(10)
                          YES
                                       NULL
 st course
           int
                          YES
                                     NULL
 st_marks
4 rows in set (0.23 sec)
```

5. Insert:

```
mysql> insert into stud_info values(10,"Mayuri","IT",100);
Query OK, 1 row affected (0.12 sec)

mysql> insert into stud_info values(11,"Rakhi","CO",30);
Query OK, 1 row affected (0.12 sec)

mysql> insert into stud_info values(12,"Manav","Mech",89);
Query OK, 1 row affected (0.17 sec)

mysql> insert into stud_info values(13,"Kunal","EXTC",100);
Query OK, 1 row affected (0.25 sec)

mysql> insert into stud_info values(14,"Heena","IT",96);
Query OK, 1 row affected (0.17 sec)
```

6. Select:

mysql> select * from stud_info;		
	ame st_course	
10 Mayur	ri IT	100
11 Rakhi	i CO	30
12 Manav	/ Mech	89
13 Kuna]	l EXTC	100
14 Heena	a IT	96
++		
5 rows in set (0.00 sec)		

7. Alter -Add:

```
mysql> alter table stud_info add(roll_no int(6), st_addr varchar(20));
Query OK, 0 rows affected, 1 warning (2.11 sec)
Records: 0 Duplicates: 0 Warnings: 1
mysql> desc stud_info;
                         | Null | Key | Default | Extra |
 Field
           Type
 st_id
             int
                         YES
                                        NULL
            varchar(10)
                           YES
                                       NULL
 st_name
 st_course | varchar(10)
                           YES
                                       NULL
                           YES
 st_marks | int
                                       NULL
 roll_no
            int
                           YES
                                       NULL
 st_addr
           | varchar(20) | YES
                                      NULL
rows in set (0.07 sec)
```

8. Alter – Modify:

```
mysql> alter table stud_info modify st_marks int(10) not null;
Query OK, 0 rows affected, 1 warning (2.43 sec)
Records: 0 Duplicates: 0 Warnings: 1
mysql> desc stud_info;
                          | Null | Key | Default | Extra |
 Field
            Type
 st_id
             int
                           NO
                                         NULL
 st_name
             varchar(10)
                            YES
                                         NULL
             varchar(10)
 st course
                            YES
                                         NULL
 st_marks
             int
                           NO
                                         NULL
 st addr
             varchar(20)
                           YES
                                         NULL
 rows in set (0.08 sec)
```

9. Alter - Drop:

```
mysql> alter table stud_info drop roll_no;
Query OK, 0 rows affected (2.35 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc stud_info;
                          | Null | Key | Default | Extra |
 Field
            Type
  st_id
             int
                            YES
                                         NULL
  st name
             varchar(10)
                            YES
                                         NULL
             varchar(10)
                            YES
                                         NULL
  st course
  st marks
             int
                           YES
                                         NULL
             varchar(20)
                          YES
                                         NULL
  st addr
 rows in set (0.00 sec)
```

10. Alter - Change:

```
mysql> alter table stud_info CHANGE st_addr st_addr int(10);
Query OK, 5 rows affected, 1 warning (2.28 sec)
Records: 5 Duplicates: 0 Warnings: 1
mysql> desc stud_info;
                          | Null | Key | Default | Extra |
 Field
            Type
 st id
                                   PRI
             int
                           NO
                                         NULL
 st name
             varchar(10)
                           YES
                                         NULL
 st_course
             varchar(10)
                           YES
                                         NULL
              int
                           NO
                                         NULL
 st marks
  st addr
             int
                          YES
                                         NULL
 rows in set (0.08 sec)
```

11. Alter - (Add Primary Key):

```
nysql> alter table stud_info add primary key(st_id);
Query OK, 0 rows affected (1.48 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc stud_info;
                                          Default | Extra |
 Field
                           | Null | Key |
            Type
 st_id
              int
                            NO
                                    PRI
                                          NULL
              varchar(10)
 st name
                            YES
                                          NULL
 st course
              varchar(10)
                            YES
                                          NULL
 st marks
              int
                            YES
                                          NULL
 st addr
              varchar(20)
                            YES
                                          NULL
 rows in set (0.13 sec)
```

12. Create table with P.K and Not Null:

```
mysql> create table course_info(Co_id int(10) primary key not null,co_name varchar(20) not null,co_subjects varchar(10));
Query OK, 0 rows affected, 1 warning (2.13 sec)
mysql> desc table course_info;
 id | select_type | table
                                 | partitions | type | possible_keys | key | key_len | ref | rows | filtered | Extra |
                   | course info | NULL
                                               ALL | NULL
                                                                       | NULL | NULL
                                                                                        | NULL |
                                                                                                    1 |
                                                                                                          100.00 | NULL |
row in set, 1 warning (0.29 sec)
mysql> desc course_info;
                            | Null | Key | Default | Extra
 Field
              Type
 Co_id
                                     PRT
                                           NULL
               int
                              NO
 co_name | varchar(20)
co_subjects | varchar(10)
                              NO
                                            NULL
                            I YES
                                           NULL
 rows in set (0.05 sec)
```

13. Inserted data in 2nd Table:

```
mysql> insert into course_info values(2087,"Computer","Comp Graphics");
Query OK, 1 row affected (0.17 sec)
mysql> insert into course_info values(3065,"EXTC","Analog");
Query OK, 1 row affected (0.23 sec)
mysql> desc course_info;
 Field
                 Type
                                | Null | Key | Default | Extra |
                                                 NULL
 Co id
                  int
                                  NO
                  varchar(20)
  co name
                                  NO
                                                 NULL
  co_subjects
                 varchar(20) | YES
                                                 NULL
 rows in set (0.00 sec)
nysql> select * from course_info;
  Co_id | co_name | co_subjects
   1016 | IT
                        Database
   2087
                        Comp Graphics
         Computer
   3065 EXTC
                       Analog
  rows in set (0.00 sec)
```

14. Truncate:

```
mysql> Truncate course_info;
Query OK, 0 rows affected (0.84 sec)
mysql> select * from course_info;
Empty set (0.35 sec)
```

15. Drop: