**Ex.No :1 DDL Commands – CREATE, ALTER, DROP**

1) Create a table name STUDENT with following structure.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Column** |  |  |  |
| **S.nO** | **Name** | **Description** | **Data Type** |  |
|  |  |  |
|  |  | Registration |  |  |
| 1 | RegNo | Number | NUMBER(3) |  |
| 2 | Name | Student Name | VARCHAR(15) |  |
|  |  | Gender of the |  |  |
| 3 | Gender | student | CHAR(1) |  |
| 4 | DOB | Date of Birth | DATE |  |
| 5 | MobileNo | Mobile Number | NUMBER(10) |  |
| 6 | City | Location of stay | VARCHAR(15) |  |

mysql> create table student(regno integer(10), name varchar(15), gender char(1), dob date, mobileno integer(10), city varchar(10));

Query OK, 0 rows affected (0.02 sec)

mysql> desc student;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| regno | int(10) | YES | | NULL | |

| name | varchar(15) | YES | | NULL | |

| gender | char(1) | YES | | NULL | |

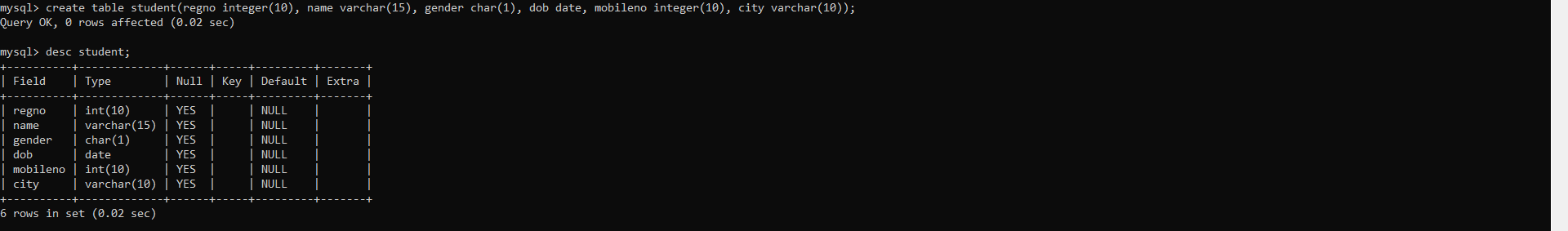
| dob | date | YES | | NULL | |

| mobileno | int(10) | YES | | NULL | |

| city | varchar(10) | YES | | NULL | |

+----------+-------------+------+-----+---------+-------+

6 rows in set (0.02 sec)



2) Create a table name FACULTY with following structure.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Column** |  |  |  |
| **S.nO** | **Name** | **Description** | **Data Type** |  |
|  |  |  |
| 1 | FacNo | Faculty Identifier | VARCHAR(4) |  |
| 2 | FacName | Faculty Name | VARCHAR(15) |  |
| 3 | Gender | Gender of faculty | CHAR(1) |  |
| 4 | DOB | Date of Birth | DATE |  |
| 5 | DOJ | Date of Join | DATE |  |
| 6 | MobileNo | Mobile Number | NUMBER(10) |  |

create table faculty(facno varchar(4), facname varchar(15), gender char(1), dob date, doj date, mobileno integer(10));

Query OK, 0 rows affected (0.03 sec)

mysql> desc faculty;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| facno | varchar(4) | YES | | NULL | |

| facname | varchar(15) | YES | | NULL | |

| gender | char(1) | YES | | NULL | |

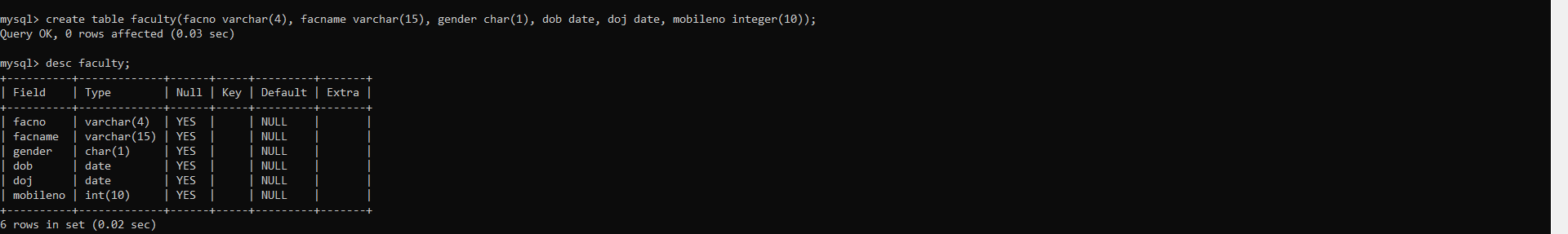
| dob | date | YES | | NULL | |

| doj | date | YES | | NULL | |

| mobileno | int(10) | YES | | NULL | |

+----------+-------------+------+-----+---------+-------+

6 rows in set (0.02 sec)



3) Create a table name DEPARTMENT with following structure.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Column** |  |  |  |
| **S.nO** | **Name** | **Description** | **Data Type** |  |
|  |  |  |
| 1 | DeptNo | Department Identifier | VARCHAR(4) |  |
| 2 | DeptName | Department Name | VARCHAR(15) |  |
| 3 | DeptHead | Department Head | VARCHAR(4) |  |

create table department(deptno varchar(4), deptname varchar(15), depthead varchar(4));

Query OK, 0 rows affected (0.02 sec)

mysql> desc department;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| deptno | varchar(4) | YES | | NULL | |

| deptname | varchar(15) | YES | | NULL | |

| depthead | varchar(4) | YES | | NULL | |

+----------+-------------+------+-----+---------+-------+

3 rows in set (0.02 sec)



4) Create a table name COURSE with following structure.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Column** |  |  |  |
| **S.nO** | **Name** | **Description** | **Data Type** |  |
|  |  |  |
| 1 | CourseNo | Course Identifier | VARCHAR(3) |  |
|  |  | Course |  |  |
| 2 | CourseDesc | Description | VARCHAR(14) |  |
| 3 | CourseType | Course Type | CHAR(1) |  |
| 4 | SemNo | Semester Number | CHAR(1) |  |
| 5 | HallNo | Hall Number | VARCHAR(4) |  |
| 6 | FacNo | Faculty Identifier | VARCHAR(4) |  |

create table course(courseno varchar(3), coursedesc varchar(14), coursetype char(1), semno char(1), hallno varchar(4), facno varchar(4));

ERROR 1050 (42S01): Table 'course' already exists

mysql> desc course;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| courseno | varchar(3) | YES | | NULL | |

| coursedesc | varchar(14) | YES | | NULL | |

| coursetype | char(1) | YES | | NULL | |

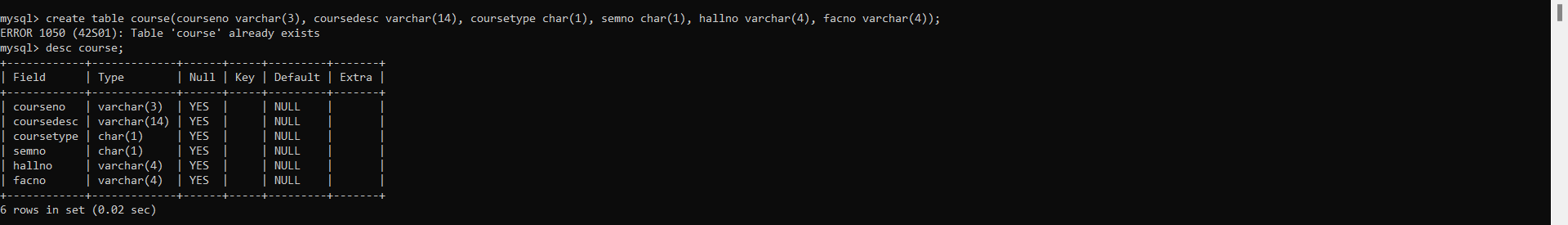
| semno | char(1) | YES | | NULL | |

| hallno | varchar(4) | YES | | NULL | |

| facno | varchar(4) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

6 rows in set (0.02 sec)



1. Modify the table FACULTY by adding a column name DeptNo of datatype VARCHAR(4)

alter table faculty add deptno varchar(4);

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc faculty;

+----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+-------------+------+-----+---------+-------+

| facno | varchar(4) | YES | | NULL | |

| facname | varchar(15) | YES | | NULL | |

| gender | char(1) | YES | | NULL | |

| dob | date | YES | | NULL | |

| doj | date | YES | | NULL | |

| mobileno | int(10) | YES | | NULL | |

| deptno | varchar(4) | YES | | NULL | |

+----------+-------------+------+-----+---------+-------+

7 rows in set (0.01 sec)

