

## Assignment

Create a database named college

Create a table name student in college database with following structure

roll,name,class,marks,age with respective datatypes.

Check the structure of the table.

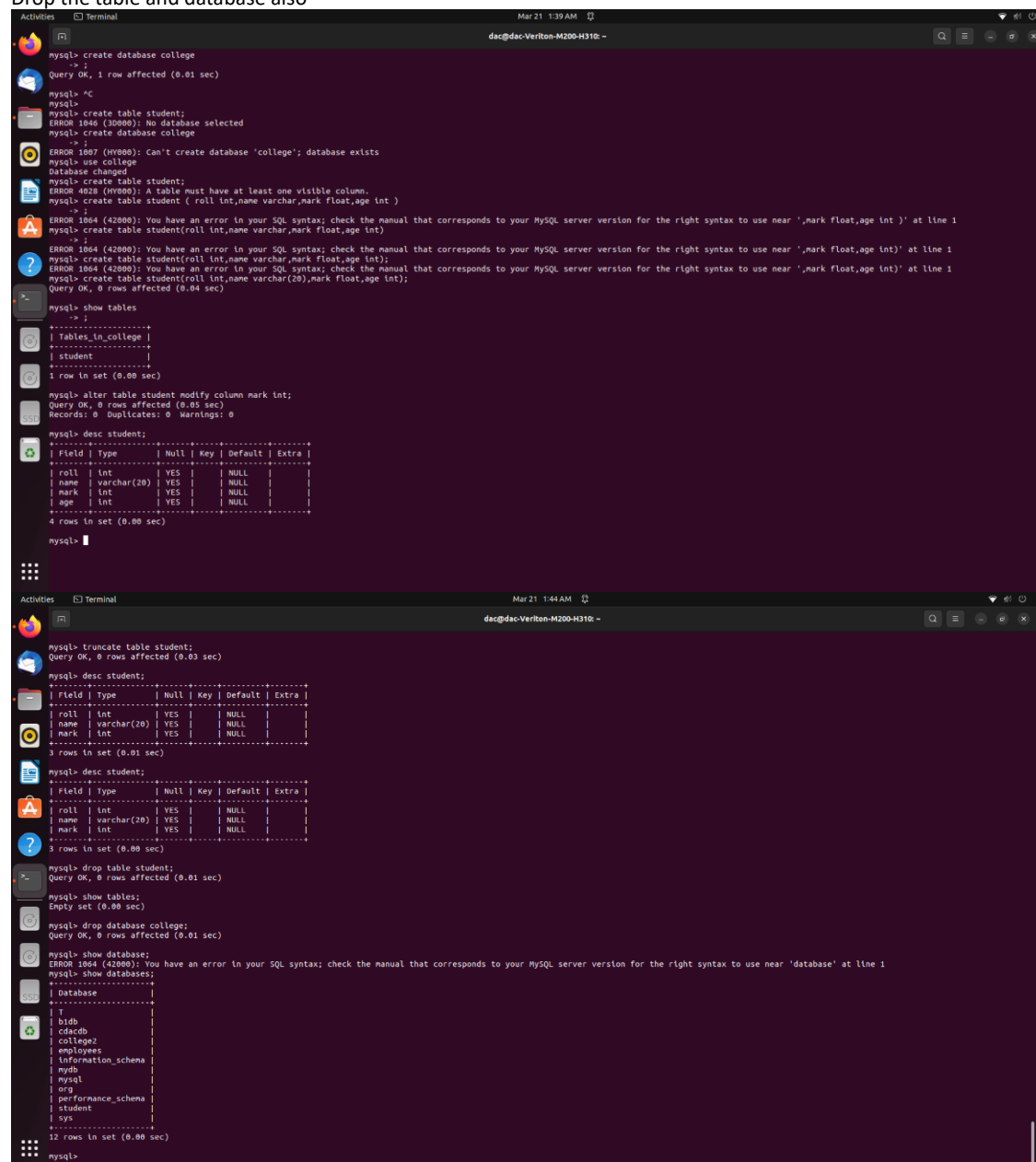
Alter the datatype of marks from float to integer

Alter the table to remove the column age

Show all the tables in database college.

Truncate the table student

Drop the table and database also



```
mysql> create database college
-> ;
Query OK, 1 row affected (0.01 sec)

mysql> ^C
mysql>
mysql> create table student;
ERROR 1044 (30000): No database selected
mysql> create database college
-> ;
ERROR 1007 (HY000): Can't create database 'college'; database exists
mysql> use college
Database changed
mysql> create table student;
ERROR 4028 (HY000): A table must have at least one visible column.
mysql> create table student ( roll int,name varchar,mark float,age int )
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ',mark float,age int)' at line 1
mysql> create table student(roll int,name varchar,mark float,age int)
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ',mark float,age int)' at line 1
mysql> create table student(roll int,name varchar(20),mark float,age int);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ',mark float,age int)' at line 1
mysql> create table student(roll int,name varchar(20),mark float,age int);
Query OK, 0 rows affected (0.04 sec)

mysql> show tables
-> ;
+-----+
| Tables_in_college |
+-----+
| student           |
+-----+
1 row in set (0.00 sec)

mysql> alter table student modify column mark int;
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student;
+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+
| roll  | int       | YES  |     | NULL    |      |
| name  | varchar(20) | YES  |     | NULL    |      |
| mark  | int       | YES  |     | NULL    |      |
| age   | int       | YES  |     | NULL    |      |
+-----+
4 rows in set (0.00 sec)

mysql>

mysql> truncate table student;
Query OK, 0 rows affected (0.03 sec)

mysql> desc student;
+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+
| roll  | int       | YES  |     | NULL    |      |
| name  | varchar(20) | YES  |     | NULL    |      |
| mark  | int       | YES  |     | NULL    |      |
+-----+
3 rows in set (0.01 sec)

mysql> desc student;
+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+
| roll  | int       | YES  |     | NULL    |      |
| name  | varchar(20) | YES  |     | NULL    |      |
| mark  | int       | YES  |     | NULL    |      |
+-----+
3 rows in set (0.00 sec)

mysql> drop table student;
Query OK, 0 rows affected (0.01 sec)

mysql> show tables;
Empty set (0.00 sec)

mysql> drop database college;
Query OK, 0 rows affected (0.01 sec)

mysql> show database;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'database' at line 1
mysql> show databases;
+-----+
| Database |
+-----+
| b1db     |
| cdacdb   |
| college2 |
| employees |
| information_schema |
| mysql    |
| org      |
| performance_schema |
| student  |
| sys      |
+-----+
12 rows in set (0.00 sec)

mysql>
```

### Assignment No. 3

Create a database named college

Create a table name student in college database with following structure

roll,name,class,marks,age with respective datatypes.

Insert at least 5 rows in the table.

Delete the entry of roll number 4

Update the marks of roll number 3

Give additional grace marks of 0.5 to all students.

Truncate the table Insert the data again using multi-insert statement

```
mysql> create database college;
Query OK, 1 row affected (0.01 sec)

mysql> create table student (roll int, name varchar(20) class, int marks, float age, int);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'int name, varchar(20) class, int marks, float age, int)' at line 1

mysql> create table student (roll int, name varchar(20), class int, marks float, age int);
ERROR 1046 (30000): No database selected

mysql> use college
Database changed

mysql> create table student (roll int, name varchar(20), class int, marks float, age int);
Query OK, 0 rows affected (0.03 sec)

mysql> desc student
+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+
| roll  | int           | YES  |     | NULL    |       |
| name  | varchar(20)   | YES  |     | NULL    |       |
| class | int           | YES  |     | NULL    |       |
| marks | float         | YES  |     | NULL    |       |
| age   | int           | YES  |     | NULL    |       |
+-----+
5 rows in set (0.00 sec)

mysql> insert into student (roll, name, class, marks, age)
-> values (1, Anand, 2, 78.2, 7)
-> values (2, Ram, 2, 65.42, 9)
-> values (3, Shaan, 3, 78.2, 8)
-> values (4, Vinod, 3, 79.3, 8)
-> values (2, Prem, 3, 82.3, 8)
-> ?
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'values (2, Ram, 2, 65.42, 7)
values (3, Shaan, 3, 78.2, 8)
values (4, Vinod, 3, ' at line 3
mysql> insert into student (roll, name, class, marks, age)
-> values (1, Anand, 2, 78.2, 7)
-> values (2, Prem, 3, 82.3, 8)
-> values (3, Shaan, 3, 78.2, 8)
-> values (4, Vinod, 3, 79.3, 8)
-> ?
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'values (2, Prem, 3, 82.3, 8)
values (3, Shaan, 3, 78.2, 8)
values (4, Vinod, 3, ' at line 3
mysql> insert into student (roll, name, class, marks, age) values (1, Anand, 2, 78.2, 7), (2, Prem, 3, 82.3, 8), (3, Shaan, 3, 78.2, 8), (4, Vinod, 3, 79.3, 8), (2, Ram, 2, 78.2, 7);
ERROR 1054 (42S22): Unknown column 'Anand' in 'field list'
mysql> insert into student (roll, name, class, marks, age) values (1, "Anand", 2, 78.2, 7), (2, "Prem", 3, 82.3, 8), (3, "Shaan", 3, 78.2, 8), (4, "Vinod", 3, 79.3, 8), (2, "Ram", 2, 78.2, 7);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql>
```

```
Activities Terminal Mar 21 2:01 AM
dac@dac-Veriton-M200-H310: ~

mysql> select * from student;
+----+-----+-----+-----+-----+
| roll | name | class | marks | age |
+----+-----+-----+-----+
| 1 | Anand | 2 | 78.2 | 7 |
| 2 | Prem | 3 | 82.3 | 8 |
| 3 | Shaan | 3 | 78.2 | 8 |
| 4 | Vinod | 3 | 79.3 | 8 |
| 5 | Ram | 2 | 78.2 | 7 |
+----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> update student set roll=5 where name="Ram";
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from student;
+----+-----+-----+-----+-----+
| roll | name | class | marks | age |
+----+-----+-----+-----+
| 1 | Anand | 2 | 78.2 | 7 |
| 2 | Prem | 3 | 82.3 | 8 |
| 3 | Shaan | 3 | 78.2 | 8 |
| 4 | Vinod | 3 | 79.3 | 8 |
| 5 | Ram | 2 | 78.2 | 7 |
+----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> delete from student where roll=4;
Query OK, 1 row affected (0.01 sec)

mysql> select * from student;
+----+-----+-----+-----+-----+
| roll | name | class | marks | age |
+----+-----+-----+-----+
| 1 | Anand | 2 | 78.2 | 7 |
| 2 | Prem | 3 | 82.3 | 8 |
| 3 | Shaan | 3 | 78.2 | 8 |
| 5 | Ram | 2 | 78.2 | 7 |
+----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> update student marks=90.8 where roll=3;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '=90.8 where roll=3' at line 1
mysql> update student set marks=90.8 where roll=3;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from student;
+----+-----+-----+-----+-----+
| roll | name | class | marks | age |
+----+-----+-----+-----+
| 1 | Anand | 2 | 78.2 | 7 |
| 2 | Prem | 3 | 82.3 | 8 |
| 3 | Shaan | 3 | 90.8 | 8 |
| 5 | Ram | 2 | 78.2 | 7 |
+----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

```
Activities Terminal Mar 21 2:06 AM
dac@dac-Veriton-M200-H310: ~

mysql> update student set marks=marks+0.5;
Query OK, 4 rows affected (0.00 sec)
Rows matched: 4 Changed: 4 Warnings: 0

mysql> select * from student;
+----+-----+-----+-----+-----+
| roll | name | class | marks | age |
+----+-----+-----+-----+
| 1 | Anand | 2 | 78.7 | 7 |
| 2 | Prem | 3 | 82.8 | 8 |
| 3 | Shaan | 3 | 91.3 | 8 |
| 5 | Ram | 2 | 78.7 | 7 |
+----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> truncate student;
Query OK, 0 rows affected (0.03 sec)

mysql> select * from student;
Empty set (0.00 sec)

mysql> insert into student (roll, name, class, marks, age) values (1, "Ram", 2, 80, 7), (2, "Shan", 2, 70, 7), (3, "Anand", 3, 98, 8), (4, "Ishwar", 4, 78, 9), (5, "Prem", 4, 78, 9);
Query OK, 5 rows affected (0.00 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> select * from student;
+----+-----+-----+-----+-----+
| roll | name | class | marks | age |
+----+-----+-----+-----+
| 1 | Ram | 2 | 80 | 7 |
| 2 | Shan | 2 | 70 | 7 |
| 3 | Anand | 3 | 98 | 8 |
| 4 | Ishwar | 4 | 78 | 9 |
| 5 | Prem | 4 | 78 | 9 |
+----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```