

```
cd\  
cd xampp  
cd mysql  
cd bin  
mysql -u root -p -h 127.0.0.1
```

1. Create a database named eemcDB

```
create database eemcDB;  
show databases;
```

Output:

Database
eemcdb
information_schema
mysql
performance_schema
phpmyadmin
test

2. Create table named **student_info** database named **eemcDB** with following columns and datatypes.

Sid	Name	Contact	Faculty	College_Name
int	Varchar(50)	Char(10)	Varchar(50)	Varchar(50)

```
use database eemcDB;  
create table student_info(Sid int, Name varchar(50), contact char(10), Faculty varchar(50),  
College_Name varchar(50));  
describe student_info;
```

Output:

Field	Type	Null	Key	Default	Extra
Sid	int(11)	YES		NULL	
Name	varchar(50)	YES		NULL	
contact	char(10)	YES		NULL	
Faculty	varchar(50)	YES		NULL	
College_Name	varchar(50)	YES		NULL	

3. Now add column named address with datatype varchar(30).

```
ALTER TABLE student_info ADD COLUMN address varchar(30);
```

```
DESCRIBE student_info;
```

Output:

Field	Type	Null	Key	Default	Extra
Sid	int(11)	YES		NULL	
Name	varchar(50)	YES		NULL	
contact	char(10)	YES		NULL	
Faculty	varchar(50)	YES		NULL	
College_Name	varchar(50)	YES		NULL	
address	varchar(50)	YES		NULL	

4. Delete the column named contact.

```
ALTER TABLE student_info DROP COLUMN contact;
```

```
DESCRIBE student_info;
```

Output:

Field	Type	Null	Key	Default	Extra
Sid	int(11)	YES		NULL	
Name	varchar(50)	YES		NULL	
Faculty	varchar(50)	YES		NULL	
College_Name	varchar(50)	YES		NULL	
address	varchar(50)	YES		NULL	

5. Rename column named address as location.

```
ALTER TABLE student_info CHANGE COLUMN address location varchar(50);
```

```
DESCRIBE student_info;
```

Output:

Field	Type	Null	Key	Default	Extra
Sid	int(11)	YES		NULL	
Name	varchar(50)	YES		NULL	
Faculty	varchar(50)	YES		NULL	
College_Name	varchar(50)	YES		NULL	
location	varchar(50)	YES		NULL	

6. Change data type of faculty to char(20).

```
ALTER TABLE student_info MODIFY Faculty varchar(20);
DESCRIBE student_info;
```

Output:

Field	Type	Null	Key	Default	Extra
Sid	int(11)	YES		NULL	
Name	varchar(50)	YES		NULL	
Faculty	char(20)	YES		NULL	
College_Name	varchar(50)	YES		NULL	
location	varchar(50)	YES		NULL	

7. Insert minimum 10 information of student into table named student_info

- ✓ Insert 1 information of student whose faculty is not known
- ✓ Insert 1 information of student whose college_name is not known

```
INSERT into student_info (Sid, Name, Faculty, College_Name, address)
```

```
Values(1, 'Ram', 'civil', 'NCIT','KTM'),
(2, 'shyam', 'computer', 'COSMOS','dang'),
(3, 'Hari', 'software','NULL','chitwan'),
(4, 'Hari', 'NULL','EEC','Ilam'),
(5, 'Amin', 'IT','LEC','Jhapa'),
(6, 'Manish', 'LAW','NIST','Kavre'),
(7, 'Lalit', 'Computer science','KMC','Janakpur'),
(8, 'Dipendra', 'Arts','Xavier','Sudhurpasim'),
(9, 'Rohit', 'Diploma','KCCS','Lumbini'),
(10, 'Kushal', 'Humanities','EIC','Pokhara');
```

```
SELECT *from student_info;
```

Output:

Sid	Name	Faculty	College_Name	location
1	Ram	civil	NCIT	KTM
2	shyam	computer	COSMOS	dang
3	Hari	software	NULL	chitwan
4	Hari	NULL	EEC	Ilam
5	Amin	IT	LEC	Jhapa
6	Manish	LAW	NIST	Kavre
7	Lalit	Computer science	KMC	Janakpur
8	Dipendra	Arts	Xavier	Sudhurpasim
9	Rohit	Diploma	KCCS	Lumbini
10	Kushal	Humanities	EIC	Pokhara

8. Update the information of student whose sid=3 by setting faculty ='civil'

UPDATE student_info set Faculty='civil' where Sid=3;

SELECT *from student_info;

Output:

Sid	Name	Faculty	College_Name	location
1	Ram	civil	NCIT	KTM
2	shyam	computer	COSMOS	dang
3	Hari	civil	NULL	chitwan
4	Hari	NULL	EEC	Ilam
5	Amin	IT	LEC	Jhapa
6	Manish	LAW	NIST	Kavre
7	Lalit	Computer science	KMC	Janakpur
8	Dipendra	Arts	Xavier	Sudhurpasim
9	Rohit	Diploma	KCCS	Lumbini
10	Kushal	Humanities	EIC	Pokhara

n' and

UPDATE student_info set Faculty='Computer' where Name='Ram' and location='KTM';

SELECT *from student_info;

Output:

Sid	Name	Faculty	College_Name	location
1	Ram	Computer	NCIT	KTM
2	shyam	computer	COSMOS	dang
3	Hari	software	NULL	chitwan
4	Hari	NULL	EEC	Ilam
5	Amin	IT	LEC	Jhapa
6	Manish	LAW	NIST	Kavre
7	Lalit	Computer science	KMC	Janakpur
8	Dipendra	Arts	Xavier	Sudhurpasim
9	Rohit	Diploma	KCCS	Lumbini
10	Kushal	Humanities	EIC	Pokhara

10.Delete the information of student whose faculty is Humanities and location is pokhara .

DELETE from student_info where Faculty='Humanities' and location='Pokhara';

SELECT *from student_info;

Output:

Sid	Name	Faculty	College_Name	location
1	Ram	Computer	NCIT	KTM
2	shyam	computer	COSMOS	dang
3	Hari	software	NULL	chitwan
4	Hari	NULL	EEC	Ilam
5	Amin	IT	LEC	Jhapa
6	Manish	LAW	NIST	Kavre
7	Lalit	Computer science	KMC	Janakpur
8	Dipendra	Arts	Xavier	Sudhurpasim
9	Rohit	Diploma	KCCS	Lumbini

11. Display all the information of student from table named student_info.

```
SELECT *from student_info;
```

Output:

Sid	Name	Faculty	College_Name	location
1	Ram	Computer	NCIT	KTM
2	shyam	computer	COSMOS	dang
3	Hari	software	NULL	chitwan
4	Hari	NULL	EEC	Ilam
5	Amin	IT	LEC	Jhapa
6	Manish	LAW	NIST	Kavre
7	Lalit	Computer science	KMC	Janakpur
8	Dipendra	Arts	Xavier	Sudhurpasim
9	Rohit	Diploma	KCCS	Lumbini

12. Display name and faculty of student whose location is Kathmandu.

```
SELECT Name,Faculty from student_info where location='KTM';
```

Output:

Name	Faculty
Ram	Computer

13. Display name and faculty of student whose location is Ilam and college_name is eemc.

```
SELECT Name,Faculty from student_info where location='Ilam'and College_Name='EEC';
```

Output:

Name	Faculty
Hari	NULL

14. Delete all rows from table.

```
TRUNCATE table student_info;
```

15. Delete the table named student_info.

```
DROP TABLE student_info;
```

16.Delete the database named eemcDB.

DROP DATABASE eemcDB;

DISCUSSION: