

ASSIGNMENT 5:

NAME = AMAN MUNIR MUJAWAR

DIV = IT

ROLLNO = SIB-16

/*

Create Table with primary key and foreign key constraints.

a. Alter table with add n modify b. Drop table

*/

```
mysql> DROP DATABASE STUDENT_DATA;
```

Query OK, 3 rows affected (0.05 sec)

```
mysql> CREATE DATABASE STUDENT_DATA;
```

Query OK, 1 row affected (0.01 sec)

```
mysql> USE STUDENT_DATA;
```

Database changed

```
mysql> CREATE TABLE CITY(
```

```
->     CITY_ID INT NOT NULL,
```

```
->     CITY_NAME VARCHAR(30) NOT NULL DEFAULT 'PUNE',
```

```
->     PRIMARY KEY(CITY_ID)
```

```
-> );
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> INSERT INTO CITY(CITY_ID,CITY_NAME)
```

```
-> VALUES
```

```
-> (1,DEFAULT),
```

```
-> (2,'DELHI'),
```

```
-> (3,'MUMBAI'),
```

```
-> (4,'CHENNI');
```

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> CREATE TABLE COURSES (  
    -> COURSE_ID INT NOT NULL,  
    ->     COURSE_NAME VARCHAR(130) NOT NULL,  
    -> PRIMARY KEY(COURSE_ID)  
    -> );
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> INSERT INTO COURSES(COURSE_ID,COURSE_NAME)  
    -> VALUES
```

```
    -> (1001,'INFORMATION TECHNOLOGY'),  
    -> (1002,'COMPUTER SCIENCE'),  
    -> (1003,'ELECTRONIC AND TELECOMMUNICATION'),  
    -> (1004,'MECHANICAL');
```

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> CREATE TABLE STUDENT(  
    -> STUDENT_ID BIGINT NOT NULL,  
    -> STUDENT_NAME VARCHAR(120) NOT NULL,  
    ->     STUDENT_CITY INT NOT NULL,  
    ->     STUDENT_COURSES INT NOT NULL,  
    ->     PRIMARY KEY(STUDENT_ID,STUDENT_COURSES),  
    ->     FOREIGN KEY(STUDENT_CITY) REFERENCES CITY(CITY_ID),  
    ->     FOREIGN KEY(STUDENT_COURSES) REFERENCES COURSES(COURSE_ID)  
    -> );
```

Query OK, 0 rows affected (0.08 sec)

```
mysql> INSERT INTO STUDENT(STUDENT_ID,STUDENT_NAME,STUDENT_CITY,STUDENT_COURSES)  
    -> VALUES
```

```
    -> (1122,'ROHAN KUMAR',1,1001),  
    -> (1123,'ALLU ARJUN',4,1002),  
    -> (2244,'NOBITA NOBI',3,1004),  
    -> (2245,'PRATHAMESH PATIL',1,1002),  
    -> (2246,'SIDDESH KUMBAR',2,1001);
```

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM STUDENT_DATA.CITY;
```

```
+-----+-----+
| CITY_ID | CITY_NAME |
+-----+-----+
|      1 | PUNE      |
|      2 | DELHI     |
|      3 | MUMBAI    |
|      4 | CHENNI    |
+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM STUDENT_DATA.COURSES;
```

```
+-----+-----+
| COURSE_ID | COURSE_NAME |
+-----+-----+
|      1001 | INFORMATION TECHNOLOGY |
|      1002 | COMPUTER SCIENCE |
|      1003 | ELECTRONIC AND TELECOMMUNICATION |
|      1004 | MECHANICAL |
+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> #1 ALTER COMMAND
```

```
mysql> SELECT * FROM STUDENT_DATA.STUDENT;
```

```
+-----+-----+-----+-----+
| STUDENT_ID | STUDENT_NAME | STUDENT_CITY | STUDENT_COURSES |
+-----+-----+-----+-----+
|      1122 | ROHAN KUMAR |      1 |      1001 |
|      1123 | ALLU ARJUN |      4 |      1002 |
|      2244 | NOBITA NOBI |      3 |      1004 |
|      2245 | PRATHAMESH PATIL |      1 |      1002 |
|      2246 | SIDDESH KUMBAR |      2 |      1001 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> ALTER TABLE STUDENT
```

```
-> RENAME COLUMN STUDENT_ID TO STUDENT_NO;
```

```
Query OK, 0 rows affected (0.09 sec)
```

```
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> SELECT * FROM STUDENT_DATA.STUDENT;
```

```

+-----+-----+-----+-----+
| STUDENT_NO | STUDENT_NAME      | STUDENT_CITY | STUDENT_COURSES |
+-----+-----+-----+-----+
|          1122 | ROHAN KUMAR      |          1 |          1001 |
|          1123 | ALLU ARJUN       |          4 |          1002 |
|          2244 | NOBITA NOBI      |          3 |          1004 |
|          2245 | PRATHAMESH PATIL |          1 |          1002 |
|          2246 | SIDDESH KUMBAR   |          2 |          1001 |
+-----+-----+-----+-----+

5 rows in set (0.00 sec)

```

```
mysql> ALTER TABLE STUDENT
```

```
-> ADD COLUMN EMAIL VARCHAR(20);
```

```
Query OK, 0 rows affected (0.10 sec)
```

```
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM STUDENT_DATA.STUDENT;
```

```

+-----+-----+-----+-----+-----+
| STUDENT_NO | STUDENT_NAME      | STUDENT_CITY | STUDENT_COURSES | EMAIL |
+-----+-----+-----+-----+-----+
|          1122 | ROHAN KUMAR      |          1 |          1001 | NULL |
|          1123 | ALLU ARJUN       |          4 |          1002 | NULL |
|          2244 | NOBITA NOBI      |          3 |          1004 | NULL |
|          2245 | PRATHAMESH PATIL |          1 |          1002 | NULL |
|          2246 | SIDDESH KUMBAR   |          2 |          1001 | NULL |
+-----+-----+-----+-----+-----+

5 rows in set (0.00 sec)

```

```
mysql> # TO DROP CONSTRAINT
```

```
mysql> # ALTER TABLE table_name
```

```
mysql> # ALTER COLUMN column_name SET NULL;
```

```
mysql> DESC STUDENT;
```

```

+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+

```

STUDENT_NO	bigint	NO	PRI	NULL		
STUDENT_NAME	varchar(120)	NO		NULL		
STUDENT_CITY	int	NO	MUL	NULL		
STUDENT_COURSES	int	NO	PRI	NULL		
EMAIL	varchar(20)	YES		NULL		

5 rows in set (0.01 sec)

mysql> # 2.DROP COMMAND

mysql> ALTER TABLE STUDENT

-> DROP COLUMN EMAIL;

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> DESC STUDENT;

Field	Type	Null	Key	Default	Extra
STUDENT_NO	bigint	NO	PRI	NULL	
STUDENT_NAME	varchar(120)	NO		NULL	
STUDENT_CITY	int	NO	MUL	NULL	
STUDENT_COURSES	int	NO	PRI	NULL	

4 rows in set (0.00 sec)

mysql> SELECT * FROM STUDENT;

STUDENT_NO	STUDENT_NAME	STUDENT_CITY	STUDENT_COURSES
1122	ROHAN KUMAR	1	1001
1123	ALLU ARJUN	4	1002
2244	NOBITA NOBI	3	1004
2245	PRATHAMESH PATIL	1	1002
2246	SIDDESH KUMBAR	2	1001

5 rows in set (0.00 sec)

mysql> # 3.MODIFY

mysql> # ALTER TABLE table_name

```
mysql> # MODIFY COLUMN column_name datatype;
```

```
mysql> ALTER TABLE STUDENT
```

```
    -> MODIFY STUDENT_NO VARCHAR(20);
```

```
Query OK, 5 rows affected (0.10 sec)
```

```
Records: 5  Duplicates: 0  Warnings: 0
```

```
mysql> DESC STUDENT;
```

Field	Type	Null	Key	Default	Extra
STUDENT_NO	varchar(20)	NO	PRI	NULL	
STUDENT_NAME	varchar(120)	NO		NULL	
STUDENT_CITY	int	NO	MUL	NULL	
STUDENT_COURSES	int	NO	PRI	NULL	

```
4 rows in set (0.00 sec)
```