```
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
```

ASSIGNMENT 5:

```
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
```

```
+-----+
| CITY_ID | CITY_NAME |
+-----+
| 1 | PUNE |
| 2 | DELHI |
| 3 | MUMBAI |
| 4 | CHENNI |
+-----+
```

mysql> SELECT \* FROM STUDENT DATA.CITY;

# mysql> SELECT \* FROM STUDENT\_DATA.COURSES; +-----+ | COURSE\_ID | COURSE\_NAME | | +-----+ | 1001 | INFORMATION TECHNOLOGY | | 1002 | COMPUTER SCIENCE | | 1003 | ELECTRONIC AND TELECOMMUNICATION | | 1 1004 | MECHANICAL | | +-----+ 4 rows in set (0.00 sec)

### mysql> #1 ALTER COMMAND

### mysql> SELECT \* FROM STUDENT\_DATA.STUDENT;

+		+		+-		+	+
I	STUDENT_ID		STUDENT_NAME		STUDENT_CITY	I	STUDENT_COURSES
+		+		-+-		+	+
I	1122	I	ROHAN KUMAR	I	1	١	1001
I	1123		ALLU ARJUN	I	4		1002
I	2244		NOBITA NOBI	I	3	١	1004
1	2245		PRATHAMESH PATIL	I	1		1002
I	2246		SIDDESH KUMBAR	I	2		1001
+		+		-+-		+	+

<sup>5</sup> 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

```
+-----+
| STUDENT_NO | STUDENT_NAME | STUDENT_CITY | STUDENT_COURSES |
+----+
                             1001 |
   1122 | ROHAN KUMAR | 1 |
               1123 | ALLU ARJUN
                              1002 |
                      4 |
   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;

+	+		-+		+-	+	
I	STUDENT_NO	STUDENT_NAME	I	STUDENT_CITY		STUDENT_COURSES   EMAIL	
+	+		-+		-+-	+	
I	1122	ROHAN KUMAR	I	1		1001   NULL	
I	1123	ALLU ARJUN	I	4	١	1002   NULL	
I	2244	NOBITA NOBI	I	3		1004   NULL	
I	2245	PRATHAMESH PATIL	I	1	١	1002   NULL	
I	2246	SIDDESH KUMBAR	I	2	I	1001   NULL	
+		+	-+		-+-	+	

 $<sup>5 \</sup>text{ rows in set (0.00 sec)}$ 

mysql> # TO DROP CONSTRAINT

mysql> # ALTER TABLE table\_name

mysql> # ALTER COLUMN column\_name SET NULL;

mysql> DESC STUDENT;

	STUDENT_NO		bigint	1	NO		PRI		NULL	1	
	STUDENT_NAME	I	varchar(120)	I	NO			١	NULL		
	STUDENT_CITY	I	int	I	NO		MUL	١	NULL		
I	STUDENT_COURSES	I	int	I	NO		PRI	I	NULL		1
I	EMAIL	I	varchar(20)	I	YES			I	NULL		1
+-		+-		-+-		+-		-+-		+	-+
5	rows in set (0.0	)1	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		Туре	·		·	_	·	Default		   
T	- т		т.		- T				T	- +
STUDENT_NO		bigint	I	NO		PRI	I	NULL	1	I
STUDENT_NAME	١	varchar(120)	I	NO	I		I	NULL		I
STUDENT_CITY	١	int	I	NO	I	MUL	I	NULL		I
STUDENT_COURSES	I	int	I	NO	I	PRI	I	NULL	1	I
+	-+		-+-		+-		+		+	-+

<sup>4</sup> rows in set (0.00 sec)

### mysql> SELECT \* FROM STUDENT;

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

<sup>5</sup> rows in set (0.00 sec)

### mysql> # 3.MODIFY

mysql> # ALTER TABLE table\_name

# 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	1		ı	Null	ı	Кеу	ı	Default		Extra	1
+	-+		-+-		-+-		-+-		+-		+
STUDENT_NO	I	varchar(20)	I	NO		PRI		NULL			ı
STUDENT_NAME		varchar(120)	I	NO	I		I	NULL			I
STUDENT_CITY		int	I	NO	I	MUL	I	NULL	I		I
STUDENT_COURSES		int	I	NO	I	PRI	I	NULL			I
+	-+		-+-		-+-		+-		+-		+

<sup>4</sup> rows in set (0.00 sec)