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)