﻿vidya@vidya:~$ mysql -u root -p

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 7

Server version: 5.7.17-0ubuntu0.16.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use Emp\_db;

Database changed

\*\* CREATE TABLE \*\*

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mysql> create table Employees( E\_id INT(5) PRIMARY KEY, E\_name VARCHAR(100) NOT NULL, E\_gender VARCHAR(10) NOT NULL, E\_DOB DATE NOT NULL, E\_DOJ DATE NOT NULL, E\_email VARCHAR(50) NOT NULL);

Query OK, 0 rows affected (0.30 sec)

mysql> desc Employees;

+----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+--------------+------+-----+---------+-------+

| E\_id | int(5) | NO | PRI | NULL | |

| E\_name | varchar(100) | NO | | NULL | |

| E\_gender | varchar(10) | NO | | NULL | |

| E\_DOB | date | NO | | NULL | |

| E\_DOJ | date | NO | | NULL | |

| E\_email | varchar(50) | NO | | NULL | |

+----------+--------------+------+-----+---------+-------+

6 rows in set (0.00 sec)

mysql> CREATE TABLE Departments(

-> D\_id INT(3) PRIMARY KEY,

-> D\_name VARCHAR(50) NOT NULL

-> );

Query OK, 0 rows affected (0.30 sec)

mysql> desc Departments;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| D\_id | int(3) | NO | PRI | NULL | |

| D\_name | varchar(50) | NO | | NULL | |

+--------+-------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> create table Streams(

-> S\_id INT(3) PRIMARY KEY,

-> S\_name VARCHAR(50) NOT NULL

-> );

Query OK, 0 rows affected (0.47 sec)

mysql> desc Streams;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| S\_id | int(3) | NO | PRI | NULL | |

| S\_name | varchar(50) | YES | | NULL | |

+--------+-------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> CREATE TABLE Dept\_Stream(

-> D\_id INT(2),

-> S\_id INT(3),

-> FOREIGN KEY (D\_id) REFERENCES Departments (D\_id),

-> FOREIGN KEY (S\_id) REFERENCES Streams (S\_id)

-> );

Query OK, 0 rows affected (0.62 sec)

mysql> desc Dept\_Stream;

+-------+--------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+--------+------+-----+---------+-------+

| D\_id | int(2) | YES | MUL | NULL | |

| S\_id | int(3) | YES | MUL | NULL | |

+-------+--------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> create table Roles( R\_id INT(3) PRIMARY KEY, Role VARCHAR(50) NOT NULL );

Query OK, 0 rows affected (0.30 sec)

mysql> desc Roles;

+-------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+-------------+------+-----+---------+-------+

| R\_id | int(3) | NO | PRI | NULL | |

| Role | varchar(50) | NO | | NULL | |

+-------+-------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> CREATE TABLE RSD( RSD\_id INT(3) PRIMARY KEY, D\_id INT(3),S\_id INT(3),R\_id INT(3), FOREIGN KEY (D\_id) REFERENCES Departments (D\_id), FOREIGN KEY (S\_id) REFERENCES Streams (S\_id), FOREIGN KEY (R\_id) REFERENCES Roles (R\_id));

Query OK, 0 rows affected (0.42 sec)

mysql> desc RSD;

+--------+--------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+--------+------+-----+---------+-------+

| RSD\_id | int(3) | NO | PRI | NULL | |

| D\_id | int(3) | YES | MUL | NULL | |

| S\_id | int(3) | YES | MUL | NULL | |

| R\_id | int(3) | YES | MUL | NULL | |

+--------+--------+------+-----+---------+-------+

4 rows in set (0.00 sec)

mysql> create table Emp\_Role( E\_id INT(3), RSD\_id INT(3), FOREIGN KEY (E\_id) REFERENCES Employees (E\_id), FOREIGN KEY (RSD\_id) REFERENCES RSD (RSD\_id) );

Query OK, 0 rows affected (0.41 sec)

mysql> desc Emp\_Role;

+--------+--------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+--------+------+-----+---------+-------+

| E\_id | int(3) | YES | MUL | NULL | |

| RSD\_id | int(3) | YES | MUL | NULL | |

+--------+--------+------+-----+---------+-------+

2 rows in set (0.00 sec)

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\*\* INSERT TABLE \*\*

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mysql> INSERT INTO Employees VALUES(1,'vidya hulwan','female','1995-3-1','2017-1-16','vidyahulwan95@gmail.com');

Query OK, 1 row affected (0.09 sec)

mysql> INSERT INTO Employees VALUES(2,'manoj andhare','male','1995-1-16','2015-1-20','manojandhre95@gmail.com');

Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO Employees VALUES(3,'kshma chaughule','female','1992-4-18','2011-1-21','kshmachaughule5@gmail.com');

Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO Emp\_Role VALUES(7,7);

Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO Emp\_Role VALUES(8,8);

Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO Emp\_Role VALUES(9,9);

Query OK, 1 row affected (0.08 sec)

mysql> INSERT INTO RSD VALUES (14,3,NULL,15);

Query OK, 1 row affected (0.05 sec)

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\*\* SELECT TABLE \*\*

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mysql> select \* from Employees;

+------+-----------------+----------+------------+------------+----------------------------+

| E\_id | E\_name | E\_gender | E\_DOB | E\_DOJ | E\_email |

+------+-----------------+----------+------------+------------+----------------------------+

| 1 | vidya hulwan | female | 1995-03-01 | 2017-01-16 | vidyahulwan95@gmail.com |

| 2 | manoj andhare | male | 1995-01-16 | 2015-01-20 | manojandhre95@gmail.com |

| 3 | kshma chaughule | female | 1992-04-18 | 2011-01-21 | kshmachaughule5@gmail.com |

| 4 | kalpesh shinde | male | 1993-03-27 | 2016-03-21 | kalpeshshinde95@gmail.com |

| 5 | aditi urunkar | female | 1985-04-21 | 2010-03-11 | aditiurunkar95@gmail.com |

| 6 | koustubh desai | male | 1980-04-01 | 2013-09-01 | koustubhdesai95@gmail.com |

| 7 | pritee chandre | female | 1993-06-15 | 2017-06-01 | priteechandre95@gmail.com |

| 8 | ashish kharade | male | 1995-03-04 | 2015-05-06 | ashishkharade95@gmail.com |

| 9 | aishwary mohite | female | 1995-03-14 | 2015-05-16 | aishwarymahote95@gmail.com |

| 10 | shubham patil | male | 1991-03-14 | 2010-05-16 | shubhampatil95@gmail.com |

| 11 | priya kakde | female | 1996-03-24 | 2016-09-11 | priyakakde95@gmail.com |

| 12 | rohan nikam | male | 1996-01-27 | 2012-12-01 | rohannikam95@gmail.com |

| 13 | snehal ingle | female | 1996-11-07 | 2012-12-21 | snehalingle95@gmail.com |

| 14 | abhishek paiwan | male | 1996-11-17 | 2011-12-01 | abhishekpaiwan95@gmail.com |

| 15 | piyu chandre | female | 1993-11-17 | 2011-02-01 | piyuchandre95@gmail.com |

| 16 | sham bhujbal | male | 1985-01-03 | 2011-12-11 | shambhujbal95@gmail.com |

| 17 | shivani khose | female | 1996-03-28 | 2017-01-29 | shivanikhose95@gmail.com |

| 18 | harshal farande | male | 1990-01-08 | 2015-11-09 | harshalfarande95@gmail.com |

| 19 | shailaja jagtap | female | 1995-11-18 | 2016-12-19 | shailajajagtap95@gmail.com |

| 20 | vinayak hulwan | male | 1998-01-08 | 2017-01-19 | vinayakhulwan95@gmail.com |

+------+-----------------+-----

mysql> select \* from Departments;

+------+--------+

| D\_id | D\_name |

+------+--------+

| 1 | HR |

| 2 | IT |

| 3 | SALES |

| 4 | ADMIN |

+------+--------+

4 rows in set (0.00 sec)

mysql> select \* from Streams;

+------+-----------+

| S\_id | S\_name |

+------+-----------+

| 1 | technical |

| 2 | delivery |

+------+-----------+

2 rows in set (0.00 sec)

mysql> select \* from Roles;

+------+---------------------------+

| R\_id | Role |

+------+---------------------------+

| 1 | software engineer |

| 2 | senior software engineer |

| 3 | tech lead |

| 4 | project manager |

| 5 | delivery head |

| 6 | principal engineer |

| 7 | senior principal engineer |

| 8 | CTO |

| 9 | CCO |

| 10 | CEO |

| 11 | Senior HR Executive |

| 12 | HR Executive |

| 13 | Head of HR Operation |

| 14 | Admin Head |

| 15 | Salesman |

+------+---------------------------+

15 rows in set (0.00 sec)

mysql> select \* from Dept\_Stream;

+------+------+

| D\_id | S\_id |

+------+------+

| 1 | NULL |

| 2 | 1 |

| 2 | 2 |

| 3 | NULL |

| 4 | NULL |

+------+------+

5 rows in set (0.00 sec)

mysql> SELECT \* FROM RSD;

+--------+------+------+------+

| RSD\_id | D\_id | S\_id | R\_id |

+--------+------+------+------+

| 1 | 1 | NULL | 11 |

| 2 | 1 | NULL | 12 |

| 3 | 1 | NULL | 13 |

| 4 | 2 | 1 | 1 |

| 5 | 2 | 1 | 2 |

| 6 | 2 | 1 | 3 |

| 7 | 2 | 1 | 6 |

| 8 | 2 | 1 | 7 |

| 9 | 2 | 2 | 1 |

| 10 | 2 | 2 | 2 |

| 11 | 2 | 2 | 3 |

| 12 | 2 | 2 | 4 |

| 13 | 2 | 2 | 5 |

| 14 | 3 | NULL | 15 |

| 15 | 4 | NULL | 14 |

| 16 | 2 | 1 | 8 |

| 17 | 3 | NULL | 9 |

| 18 | 2 | 2 | 10 |

| 19 | 4 | NULL | 10 |

| 20 | 1 | NULL | 10 |

+--------+------+------+------+

20 rows in set (0.00 sec)

mysql> select \* from Emp\_Role;

+------+--------+

| E\_id | RSD\_id |

+------+--------+

| 1 | 1 |

| 2 | 2 |

| 3 | 3 |

| 4 | 4 |

| 5 | 5 |

| 6 | 6 |

| 7 | 7 |

| 8 | 8 |

| 9 | 9 |

| 10 | 10 |

| 11 | 11 |

| 12 | 12 |

| 13 | 13 |

| 14 | 14 |

| 15 | 15 |

| 16 | 16 |

| 17 | 17 |

| 18 | 18 |

| 19 | 19 |

| 20 | 20 |

+------+--------+

20 rows in set (0.00 sec)

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\*\* UPDATE TABLE \*\*

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mysql> UPDATE Employees SET E\_DOB='1996-2-2' WHERE E\_id=10;

Query OK, 1 row affected (0.07 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> UPDATE Employess SET E\_name='kousty desai' WHERE E\_name='koustubh desai';

ERROR 1146 (42S02): Table 'Emp\_db.Employess' doesn't exist

mysql> UPDATE Employees SET E\_name='kousty desai' WHERE E\_name='koustubh desai';

Query OK, 1 row affected (0.07 sec)

Rows matched: 1 Changed: 1 Warnings: 0

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\*\* ALTER TABLE \*\*

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1. ALTER TABLE Persons ADD DateOfBirth date

2. ALTER TABLE Persons ALTER COLUMN DateOfBirth year

3. ALTER TABLE Persons DROP COLUMN DateOfBirth