mysql> use professor\_schema;

Database changed

mysql> table list;

ERROR 1146 (42S02): Table 'professor\_schema.list' doesn't exist

mysql> show tables;

Empty set (0.00 sec)

mysql> use professor\_schema;

Database changed

mysql> create table department(dept\_id int not null, dept\_name varchar(20));

Query OK, 0 rows affected (0.03 sec)

mysql> desc department;

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

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

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

| dept\_id | int | NO | | NULL | |

| dept\_name | varchar(20) | YES | | NULL | |

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

2 rows in set (0.00 sec)

mysql> drop table department;

Query OK, 0 rows affected (0.03 sec)

mysql> show tables;

Empty set (0.00 sec)

mysql> create table department(dept\_id int not null,dept\_name varchar(10),primary key(dept\_id));

Query OK, 0 rows affected (0.03 sec)

mysql> create table professor(prof\_id int not null,fname varchar(10),lname varchar(10),dept\_id int,designation varchar(10),salary varchar(15),dob varchar(15),email varchar(20),phone varchar(20),city varchar(20),primary key(prof\_id),foreign key(dept\_id) references department(dept\_id) on delete cascade);

Query OK, 0 rows affected (0.04 sec)

mysql> desc professor;

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

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

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

| prof\_id | int | NO | PRI | NULL | |

| fname | varchar(10) | YES | | NULL | |

| lname | varchar(10) | YES | | NULL | |

| dept\_id | int | YES | MUL | NULL | |

| designation | varchar(10) | YES | | NULL | |

| salary | varchar(15) | YES | | NULL | |

| dob | varchar(15) | YES | | NULL | |

| email | varchar(20) | YES | | NULL | |

| phone | varchar(20) | YES | | NULL | |

| city | varchar(20) | YES | | NULL | |

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

10 rows in set (0.00 sec)

mysql> create table works(prof\_id int,dept\_id int,duration varchar(10),foreign key(prof\_id) references professor(prof\_id),foreign key(dept\_id) references department(dept\_id));

Query OK, 0 rows affected (0.05 sec)

mysql> create table shift(prof\_id int,shift varchar(20),working\_hrs varchar(20),foreign key(prof\_id) references professor(prof\_id));

Query OK, 0 rows affected (0.05 sec)

mysql> drop table shift;

Query OK, 0 rows affected (0.03 sec)

mysql> drop table works;

Query OK, 0 rows affected (0.03 sec)

mysql> create table shift( prof\_id int, shift varchar(20), working\_hrs varchar(20), foreign key(prof\_id) references professor(prof\_id) on delete cascade );

Query OK, 0 rows affected (0.04 sec)

mysql> create table works( prof\_id int, dept\_id int, duration varchar(10), foreign key(prof\_id) references professor(prof\_id) on delete cascade, foreign key(dept\_id) references department(dept\_id) on delete cascade );

Query OK, 0 rows affected (0.05 sec)

mysql> show tables;

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

| Tables\_in\_professor\_schema |

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

| department |

| professor |

| shift |

| works |

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

4 rows in set (0.00 sec)

mysql> alter table professor modify designation varchar(30);

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table professor modify email varchar(30);

Query OK, 0 rows affected (0.03 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table professor modify fname varchar(30);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table professor modify lname varchar(30);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc professor;

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

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

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

| prof\_id | int | NO | PRI | NULL | |

| fname | varchar(30) | YES | | NULL | |

| lname | varchar(30) | YES | | NULL | |

| dept\_id | int | YES | MUL | NULL | |

| designation | varchar(30) | YES | | NULL | |

| salary | varchar(15) | YES | | NULL | |

| dob | varchar(15) | YES | | NULL | |

| email | varchar(30) | YES | | NULL | |

| phone | varchar(20) | YES | | NULL | |

| city | varchar(20) | YES | | NULL | |

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

10 rows in set (0.00 sec)

mysql> insert into department values(1, "COMP");

Query OK, 1 row affected (0.02 sec)

mysql> insert into department values(2, "IT");

Query OK, 1 row affected (0.01 sec)

mysql> insert into department values(3, "ENTC");

Query OK, 1 row affected (0.01 sec)

mysql> insert into professor values( 1, "Sarang", "Joshi", 1, "Professor", "100000", "1976-02-12", "sajoshi@pict.edu", "3244334321", "Nashik");

Query OK, 1 row affected (0.01 sec)

mysql> insert into professor values( 2, "Rajesh", "Ingle", 1, "Professor", "100000", "1970-08-21", "ringle@pict.edu", "1814223456", "Pune");

Query OK, 1 row affected (0.01 sec)

mysql> insert into professor values( 102, "Girish", "Potdar", 1, "Associate Professor", "76000", "1974-09-16", "gpotdar@pict.edu", "7678223314", "Pune");

Query OK, 1 row affected (0.00 sec)

mysql> insert into professor values( 3, "Khatri", "Indraraj", 2, "Associate Professor", "73200", "1985-01-01", "khatri@pict.edu", "9999923231", "Pune");

Query OK, 1 row affected (0.01 sec)

mysql> select \* from professor;

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

| prof\_id | fname | lname | dept\_id | designation | salary | dob | email | phone | city |

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

| 1 | Sarang | Joshi | 1 | Professor | 100000 | 1976-02-12 | sajoshi@pict.edu | 3244334321 | Nashik |

| 2 | Rajesh | Ingle | 1 | Professor | 100000 | 1970-08-21 | ringle@pict.edu | 1814223456 | Pune |

| 3 | Khatri | Indraraj | 2 | Associate Professor | 73200 | 1985-01-01 | khatri@pict.edu | 9999923231 | Pune |

| 102 | Girish | Potdar | 1 | Associate Professor | 76000 | 1974-09-16 | gpotdar@pict.edu | 7678223314 | Pune |

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

4 rows in set (0.00 sec)

mysql> show tables;

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

| Tables\_in\_professor\_schema |

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

| department |

| professor |

| shift |

| works |

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

4 rows in set (0.00 sec)

mysql> desc shift;

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

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

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

| prof\_id | int | YES | MUL | NULL | |

| shift | varchar(20) | YES | | NULL | |

| working\_hrs | varchar(20) | YES | | NULL | |

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

3 rows in set (0.00 sec)

mysql> insert into shift values(1,"1","9-3" );

Query OK, 1 row affected (0.01 sec)

mysql> insert into shift values(2,"2","9-3" );

Query OK, 1 row affected (0.01 sec)

mysql> insert into shift values(102,"1","9-3" );

Query OK, 1 row affected (0.01 sec)

mysql> insert into shift values(3,"2","9-3" );

Query OK, 1 row affected (0.01 sec)

mysql> desc works;

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

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

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

| prof\_id | int | YES | MUL | NULL | |

| dept\_id | int | YES | MUL | NULL | |

| duration | varchar(10) | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> insert into works values(1,1,"6");

Query OK, 1 row affected (0.01 sec)

mysql> insert into works values(3,2,"7");

Query OK, 1 row affected (0.02 sec)

mysql> insert into works values(2,1,"7");

Query OK, 1 row affected (0.00 sec)

mysql> insert into works values(102,2,"9");

Query OK, 1 row affected (0.01 sec)

mysql> show tables;

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

| Tables\_in\_professor\_schema |

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

| department |

| professor |

| shift |

| works |

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

4 rows in set (0.00 sec)

mysql> desc department;

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

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

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

| dept\_id | int | NO | PRI | NULL | |

| dept\_name | varchar(10) | YES | | NULL | |

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

2 rows in set (0.00 sec)

mysql> desc professor;

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

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

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

| prof\_id | int | NO | PRI | NULL | |

| fname | varchar(30) | YES | | NULL | |

| lname | varchar(30) | YES | | NULL | |

| dept\_id | int | YES | MUL | NULL | |

| designation | varchar(30) | YES | | NULL | |

| salary | varchar(15) | YES | | NULL | |

| dob | varchar(15) | YES | | NULL | |

| email | varchar(30) | YES | | NULL | |

| phone | varchar(20) | YES | | NULL | |

| city | varchar(20) | YES | | NULL | |

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

10 rows in set (0.01 sec)

mysql> desc shift;

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

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

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

| prof\_id | int | YES | MUL | NULL | |

| shift | varchar(20) | YES | | NULL | |

| working\_hrs | varchar(20) | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> desc works;

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

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

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

| prof\_id | int | YES | MUL | NULL | |

| dept\_id | int | YES | MUL | NULL | |

| duration | varchar(10) | YES | | NULL | |

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

3 rows in set (0.00 sec)