

Lesson 03 Demo 01

Working with Related Tables

Objective: To use related tables in MySQL

Tools required: MySQL

Prerequisites: SQL

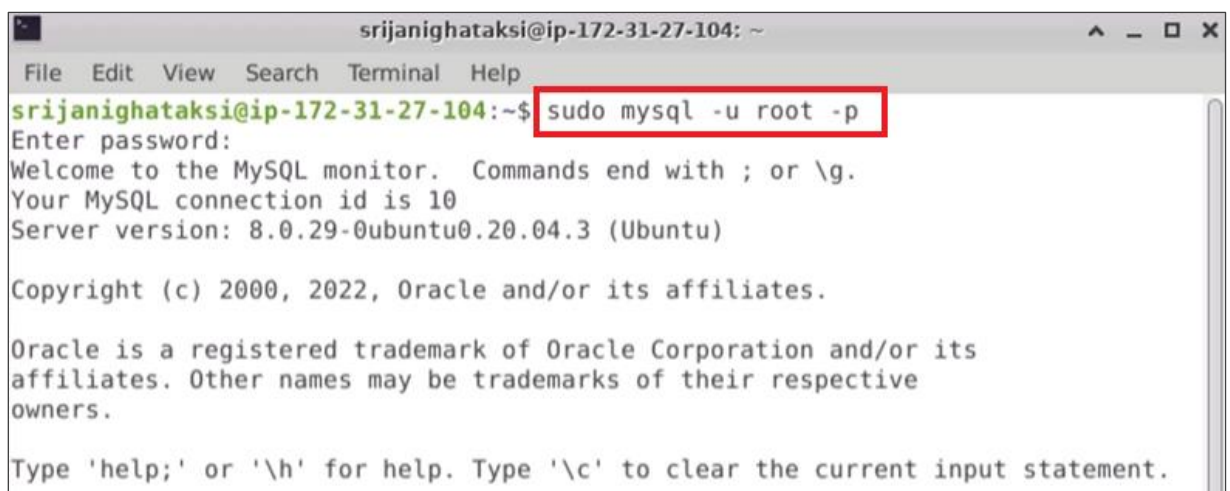
Steps to be followed:

1. Create a new table Employee
2. Insert records in the Customer table
3. Insert records in the Address table

Step 1: Create a new table Employee

1.1 Login to the terminal of the lab and type the following command to open the MySQL shell:

sudo mysql -u root -p (password is empty for this root user)

A terminal window titled 'srijanighataksi@ip-172-31-27-104: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The prompt is 'srijanighataksi@ip-172-31-27-104:~\$' and the command 'sudo mysql -u root -p' is entered and highlighted with a red box. The output shows the MySQL login process: 'Enter password:', 'Welcome to the MySQL monitor. Commands end with ; or \g.', 'Your MySQL connection id is 10', 'Server version: 8.0.29-0ubuntu0.20.04.3 (Ubuntu)', 'Copyright (c) 2000, 2022, Oracle and/or its affiliates.', 'Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.', and 'Type \'help;\' or \'h\' for help. Type \'c\' to clear the current input statement.'

```
srijanighataksi@ip-172-31-27-104: ~
File Edit View Search Terminal Help
srijanighataksi@ip-172-31-27-104:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.29-0ubuntu0.20.04.3 (Ubuntu)

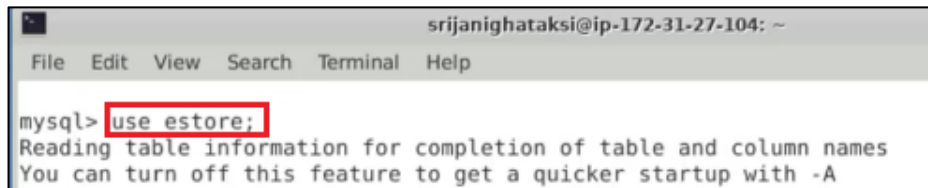
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affiliates. Other names may be trademarks of their respective
owners.

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

1.2 Switch to the estore database using the below command:

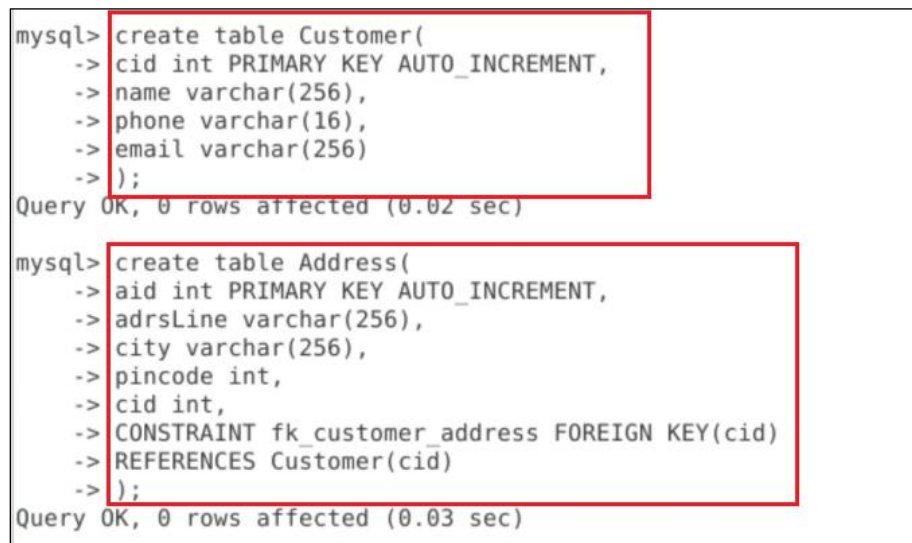
use estore;



```
srijanighataksi@ip-172-31-27-104: ~  
File Edit View Search Terminal Help  
mysql> use estore;  
Reading table information for completion of table and column names  
You can turn off this feature to get a quicker startup with -A
```

1.3 Create two new tables **Customer** and **Address** using the following commands:

```
create table Customer(  
    cid int PRIMARY KEY AUTO_INCREMENT,  
    name varchar(256),  
    phone varchar(256),  
    email varchar(256)  
);  
  
Create table Address(  
    Aid int PRIMARY KEY AUTO_INCREMENT,  
    adrsLine varchar(256),  
    city varchar(256),  
    pincode int,  
    cid int,  
    CONSTRAINT fk_customer_address FOREIGN KEY(cid)  
    REFERENCES Customer(cid)  
);
```



```
mysql> create table Customer(  
-> cid int PRIMARY KEY AUTO_INCREMENT,  
-> name varchar(256),  
-> phone varchar(16),  
-> email varchar(256)  
-> );  
Query OK, 0 rows affected (0.02 sec)  
  
mysql> create table Address(  
-> aid int PRIMARY KEY AUTO_INCREMENT,  
-> adrsLine varchar(256),  
-> city varchar(256),  
-> pincode int,  
-> cid int,  
-> CONSTRAINT fk_customer_address FOREIGN KEY(cid)  
-> REFERENCES Customer(cid)  
-> );  
Query OK, 0 rows affected (0.03 sec)
```

Step 2: Insert records in the Customer table

2.1 Insert records in **Customer** as per the below screenshot:

```
mysql> insert into Customer values (null, 'John', '+91 99999 11111', 'john@example.com');
Query OK, 1 row affected (0.01 sec)

mysql> insert into Customer values (null, 'Fionna', '+91 99999 22222', 'fionna@example.com');
Query OK, 1 row affected (0.01 sec)

mysql> select * from Customer;
```

cid	name	phone	email
1	John	+91 99999 11111	john@example.com
2	Fionna	+91 99999 22222	fionna@example.com

2 rows in set (0.00 sec)

Step 3: Insert records in the Address table

3.1 Insert records in the **Address** table as per the below screenshot:

```
srijanighataksi@ip-172-31-27-104: ~
File Edit View Search Terminal Help

mysql> insert into Address values (null, '2144 Redwood Shores', 'Bangalore', 520001, 1);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Address values (null, '52 B Pristine Magnum', 'Bangalore', 520001, 2);
Query OK, 1 row affected (0.01 sec)

mysql> insert into Address values (null, '77 E Country Homes', 'Ludhiana', 141001, 1);
Query OK, 1 row affected (0.00 sec)

mysql> select * from Address;
```

aid	adrsLine	city	pincode	cid
1	2144 Redwood Shores	Bangalore	520001	1
2	52 B Pristine Magnum	Bangalore	520001	2
3	77 E Country Homes	Ludhiana	141001	1

3 rows in set (0.00 sec)

```
mysql>
```