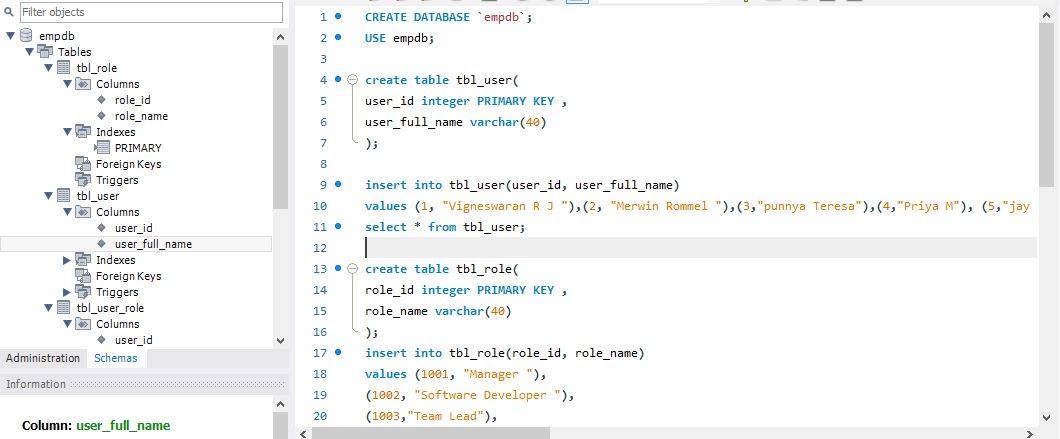
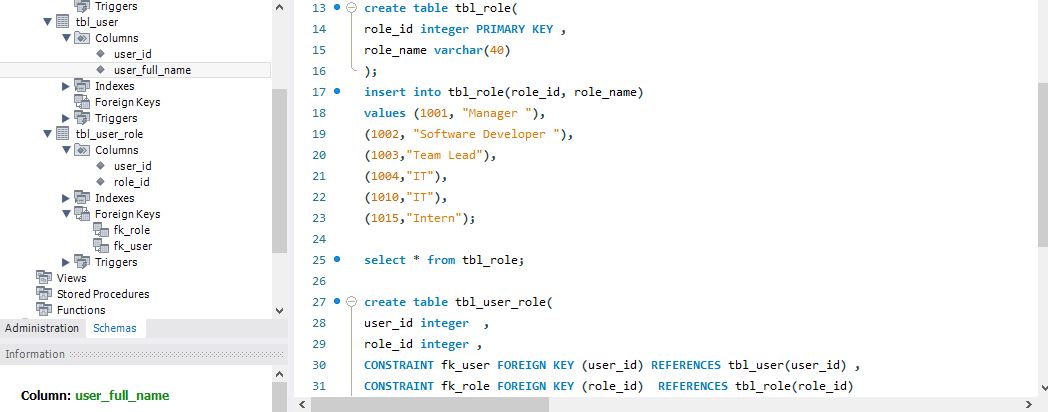
**002: MySql**

**Having the follow table structures: tbl\_user: user\_id, user\_full\_name, tbl\_role:**

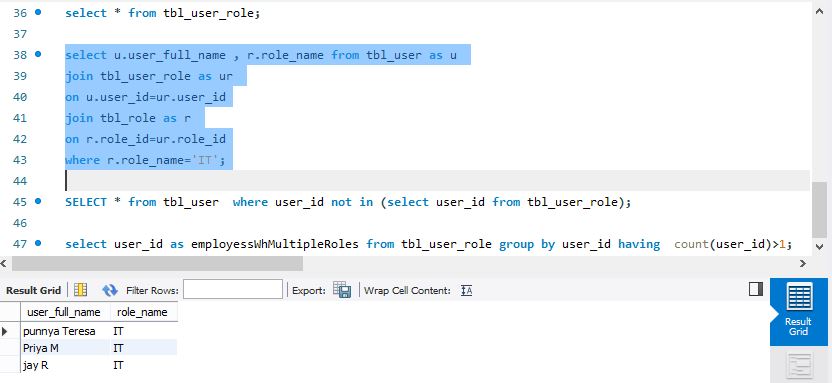
**role\_id, role\_name and tbl\_user\_role: user\_id, role\_id.**

***-Create the mysql code to create these tables.***

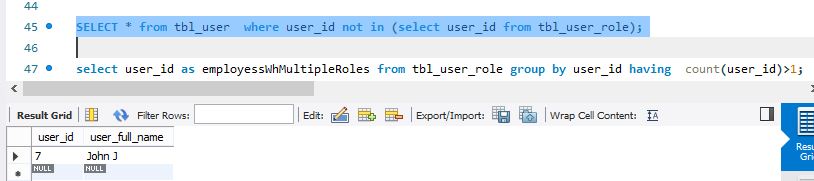




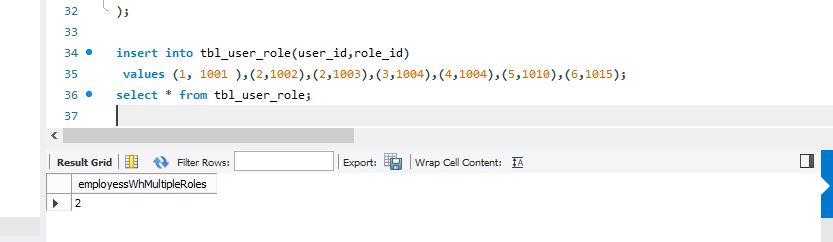
***- Write a query that will give you all users that belong to the role\_name IT***



***- Write a query that will give you a list of users with no roles***



***- (Bonus) Write a query that will find the users with duplicate roles.***



**Code:**

**CREATE DATABASE `empdb`;**

**USE empdb;**

**create table tbl\_user(**

**user\_id integer PRIMARY KEY ,**

**user\_full\_name varchar(40)**

**);**

**insert into tbl\_user(user\_id, user\_full\_name)**

**values (1, "Vigneswaran R J "),(2, "Merwin Rommel "),(3,"punnya Teresa"),(4,"Priya M"), (5,"jay R"), (6,"Brijith J"), (7, "John J");**

**select \* from tbl\_user;**

**create table tbl\_role(**

**role\_id integer PRIMARY KEY ,**

**role\_name varchar(40)**

**);**

**insert into tbl\_role(role\_id, role\_name)**

**values (1001, "Manager "),**

**(1002, "Software Developer "),**

**(1003,"Team Lead"),**

**(1004,"IT"),**

**(1010,"IT"),**

**(1015,"Intern");**

**select \* from tbl\_role;**

**create table tbl\_user\_role(**

**user\_id integer ,**

**role\_id integer ,**

**CONSTRAINT fk\_user FOREIGN KEY (user\_id) REFERENCES tbl\_user(user\_id) ,**

**CONSTRAINT fk\_role FOREIGN KEY (role\_id) REFERENCES tbl\_role(role\_id)**

**);**

**insert into tbl\_user\_role(user\_id,role\_id)**

**values (1, 1001 ),(2,1002),(2,1003),(3,1004),(4,1004),(5,1010),(6,1015);**

**select \* from tbl\_user\_role;**

**select u.user\_full\_name , r.role\_name from tbl\_user as u**

**join tbl\_user\_role as ur**

**on u.user\_id=ur.user\_id**

**join tbl\_role as r**

**on r.role\_id=ur.role\_id**

**where r.role\_name='IT';**

**SELECT \* from tbl\_user where user\_id not in (select user\_id from tbl\_user\_role);**

**select user\_id as employessWhMultipleRoles from tbl\_user\_role group by user\_id having count(user\_id)>1;**