TY B.Tech. (CSE) – II [2022-23] 5CS372 : Advanced Database System Lab. Assignment No. 8

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Title: Distributed Database.

Aim: Implement MySQL distributed database.

Procedure:

Installation & configuration:

1. Getting the IPv4 address of both the machines

Master:

```
C:\WINDOWS\system32>ipconfig

Windows IP Configuration

Wireless LAN adapter Local Area Connection* 14:

Media State . . . . . . . . . Media disconnected
Connection-specific DNS Suffix .:

Wireless LAN adapter Local Area Connection* 15:

Media State . . . . . . . Media disconnected
Connection-specific DNS Suffix .:

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix .:
Link-local IPv6 Address . . . . : fe80::4c77:66b0:25a0:da50%6
IPv4 Address . . . . . . . : 10.40.12.163
Subnet Mask . . . . . . . : 255.255.224.0
Default Gateway . . . . : 10.40.0.2

C:\WINDOWS\system32>
```

Slave:

```
Command Prompt
Microsoft Windows [Version 10.0.22621.1265]
(c) Microsoft Corporation. All rights reserved.
C:\Users\Raje>ipconfig
Windows IP Configuration
Wireless LAN adapter Local Area Connection* 3:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Local Area Connection* 4:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix .:
Wireless LAN adapter Wi-Fi:
  Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . . : fe80::e4bb:135:6626:fb0d%10 IPv4 Address . . . . . . : 10.40.8.94
  Subnet Mask . . . . . . . . : 255.255.224.0
  Default Gateway . . . . . . . : 10.40.0.2
```

- 2. Creating the slave node on given IP address on machine having the DB.
- 3. Granting all privileges to created user.
- 4. Granting replication privilege to created user.

```
□ □ □ | \( \frac{\psi}{\psi} \) \( \frac{\psi}{\psi} \) | \( \frac
          1 • use assignment08;
         3 • ⊝ CREATE TABLE myTable (
         4
                                        id integer,
                                                   name varchar(20),
                                                prn integer
                            );
          7
         9 • create user 'slave'@'10.40.8.94' identified by 'slave';
      10 • grant all privileges on assignment08.* to 'slave'@'10.40.8.94';
      11 • grant replication slave on *.* to 'slave'@'10.40.8.94';
Output :::
 Action Output
                                                                                                                                                                                                                                                                                                                                                                                      Message

    1 10:51:42 Apply changes to assignment08

                                                                                                                                                                                                                                                                                                                                                                                    Changes applied
2 10:53:01 use assignment08
                                                                                                                                                                                                                                                                                                                                                                                    0 row(s) affected

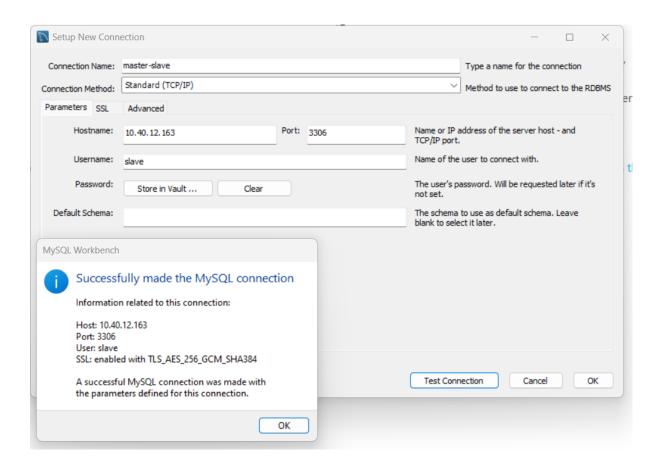
    3 10:53:16 CREATE TABLE myTable ( id integer, name varchar(20), pm integer)
    4 10:54:10 create user 'slave'@'10.40.8.94' identified by 'slave'

                                                                                                                                                                                                                                                                                                                                                                                    0 row(s) affected
                 5 10:54:16 grant all privileges on assignment 08, * to 'slave'@'10.40,8.94'
                                                                                                                                                                                                                                                                                                                                                                                    0 row(s) affected

    6 10:54:27 grant replication slave on *.* to 'slave'@'10.40.8.94'

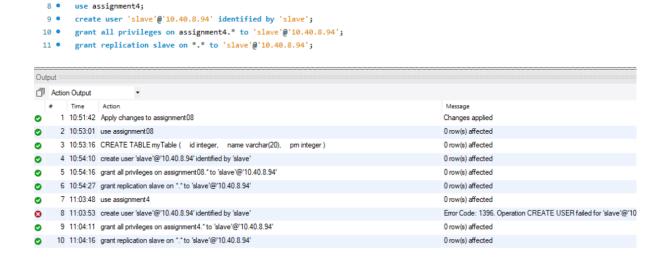
                                                                                                                                                                                                                                                                                                                                                                                    0 row(s) affected
```

On Slave Machine:

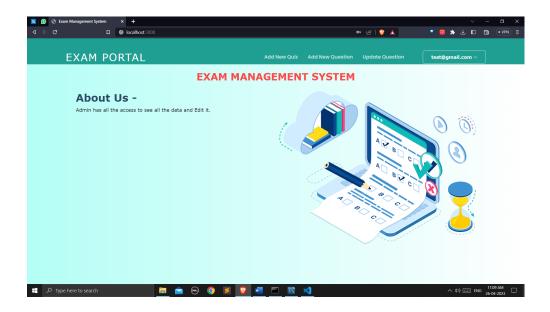


This same procedure can be followed with other machines to connect different nodes on a network Using this database for Assignment no. 4:

As done above same permissions are given to slave machine by master machine for assignment4 schema.

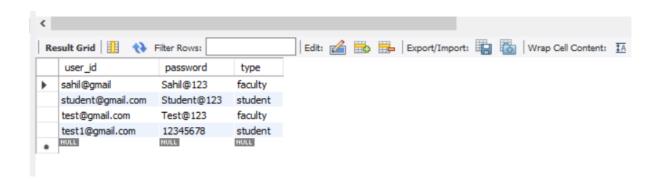


Home Page:

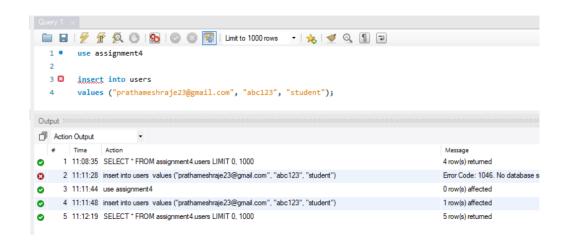


CRUD operations on DB:

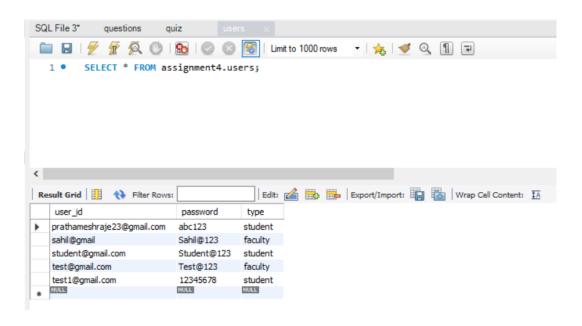
1. On master user table before update by slave



2. Inserting User from slave



3. Viewing user inserted by slave on master machine



4. Able to login user through UI

