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**Using MySQL Workbench, Navigate to Server -> Users and Privileges**

1. **Create a user algonquin with a password cst8250**
   1. **Allow the user to connect from any host on the network**
   2. **Grant the user select, create view and show view on the world database**
   3. **What is the equivalent sql command generated by MySQL to grant these to the users?**

GRANT SELECT, CREATE VIEW, SHOW VIEW ON world.\* TO algonquin;

1. **run the following command:**
   1. **show grants for algonquin@`192.168.0.%`; (replace 192.168.0 with the ip address of your laptop).**
   2. **What is displayed? Hint: run show grants for algonquin@'%' to see the difference.**

|  |  |
| --- | --- |
| show grants for algonquin@`192.168.68.53%` | Error Code: 1141. There is no such grant defined for user 'algonquin' on host '192.168.68.53' |

1. **Open a second instance of MySQL using user algonquin, connect to the server.**
2. **Expand the tables and views of the schema and take a screenshot.**

Graphical user interface, application

Description automatically generated

1. **Can you access the User and Privileges Management link?**

Not. Because there is an error message: “the account you are currently using does not have sufficient privileges to view the client connections.”

1. **Why?**

Based on the error message provided, it seems that the user account being used does not have sufficient privileges to view the client connections. It is not able to access the page because it requires permission since the only privileges this account has are select, create view, and show view.

1. **Can you delete all the records in the city table?**

No, as the user does not have the privileges to Delete.

1. **What error code is provided by MySQL if any?**

Error Code: 1142. DELETE command denied to user 'algonquin'@'localhost' for table 'city'

1. **Close the MySQL instance.**
2. **Back to the main MySQL instance (user root)**
3. **Create a user associated with your first name and a password of your choice.**
   1. **Allow the user to connect from any host on the network**
   2. **Click on the Administrative tab.**
      1. **Spend some time to explore the built in administrative database role.**
      2. **What privileges are automatically associated to the built-in role UserAdmin?**

Allows to create new users and reset passwords (**CREATE USER, RELOAD**).

* + 1. **What privileges are automatically associated to the built in role DBManager?**

Full rights on all databases (**Alter, Alter Routine, Create, Create Routine, Create Temporary Tables, Create View, Delete, Drop, Event, Grant Option, Index, Insert, Lock Tables, Select, Show Databases, Show View, Trigger, Update**).

* + 1. **Make the user created a member of the DBDesigner administative role.**
    2. **What privileges are automatically associated to it?**

Rights to Create and reverse engineer any database schema (**Alter, Alter Routine, Create, Create Routine, Create View, Index, Insert, Show Databases, Show View, Trigger**).

* + 1. **Grant all Schema privileges to all schemas of your MySQL instance.**
    2. **Run the following command:**
       1. **show grants for algonquin1@`%`; (replace algonquin1 with the username created in step 11)**
       2. **What is displayed?**

Graphical user interface, text, application, email

Description automatically generated

* 1. **Open a second instance of MySQL using the user created, connect to the server.**
  2. **Expand the tables and views of the schema and take a screenshot.**

Graphical user interface, application

Description automatically generated

* 1. **Can you access the User and Privileges Management link?**

Yes, I have an access.

* 1. **Why?**

This user may manage users and privileges since it has the DB Designer privileges.

* 1. **Can you create a new database?**

Yes, I can.

* 1. **What is the SQL command to remove all privileges to the 2 users you created?**

REVOKE ALL PRIVILEGES ON \*.\* FROM algonquin, Azin;