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 `%`.\* 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.

Text

Description automatically generated

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, text, application

Description automatically generated

1. Can you access the User and Privileges Management link? **No.**
2. Why? **The Algonquin user does not have sufficient privileges. It can only select, create view, and show view on the world database.**
3. Can you delete all the records in the city table? **No.**
4. What error code is provided by MySQL if any? **1142**



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**?

**The UserAdmin role grants rights to create users logins and reset passwords**

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

**The DBManager role grants full rights on all databases. It also automatically has (DBDesigner & BackupAdmin) rights to create and reverse engineer any database schema and to minimal rights needed to backup any database.**

**If the user has both DBManager and UserAdmin roles, it will automatically have (SecurityAdmin) rights to manage logins and grant/revoke server and database level permissions**

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

**DBDesigner has rights to create and reverse engineer any database schema. It can alter, alter routine, create, create routine, create view, index, show databases, show view, and 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 user name created in step 11)
       2. A computer screen capture

          Description automatically generated with low confidenceWhat is displayed?
  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.

Text

Description automatically generated with medium confidence

Text

Description automatically generated with medium confidence

* 1. Can you access the User and Privileges Management link? **No.**
  2. Why?

**Even though diana user has the GRANT OPTION privilege, it still cannot create users because only users with the UserAdmin role can create users logins and reset passwords.**

* 1. Can you create a new database? **Yes**
  2. What is the SQL command to remove all privileges to the 2 users you created?

REVOKE ALL PRIVILEGES, GRANT OPTION FROM algonquin;  
REVOKE ALL PRIVILEGES, GRANT OPTION FROM diana;

Text

Description automatically generated