

LAB4

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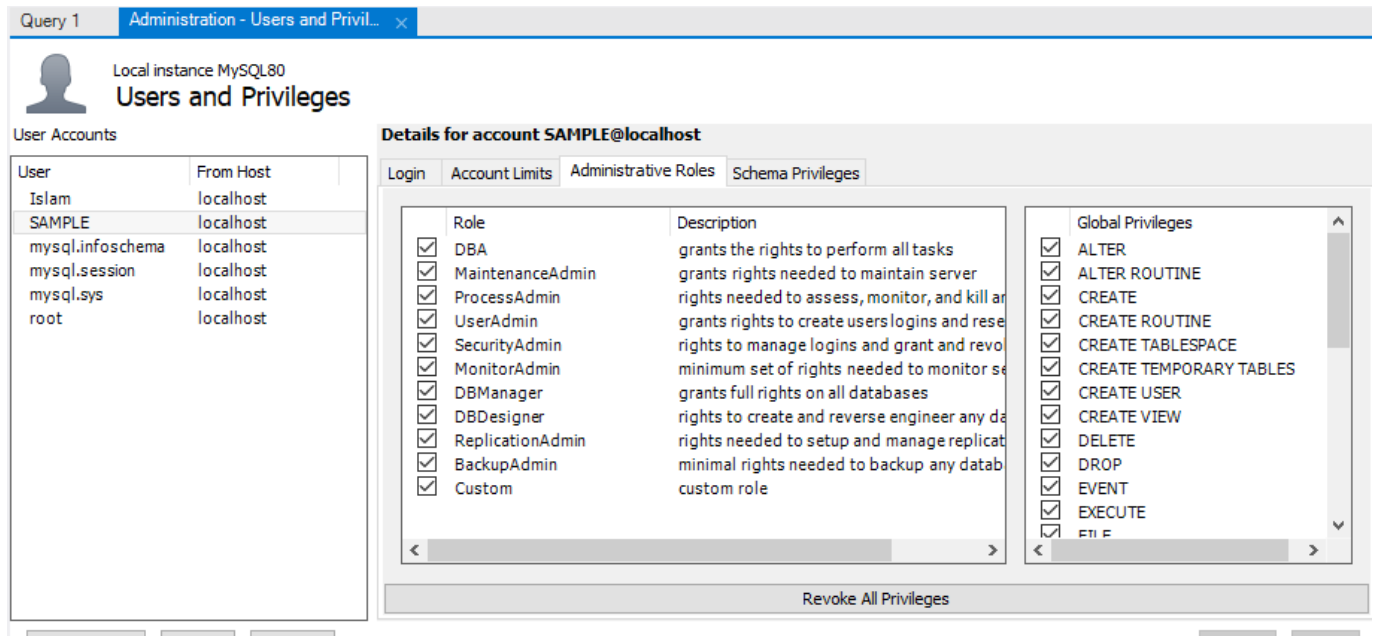
ID: 44

Problem statement:

- From the the workbench, connect to the database generated in lab session 3 using the default root with root as password system administrative privileges.
- Using the SQL Developer, create a new user account called SAMPLE and grant it as DBA.
- Use the root to lock the SAMPLE user, then try reconnecting to the database with the SAMPLE user. An error message should pop up that access is denied and account is locked. (Hint: you can use ALTER USER SAMPLEACCOUNT LOCK;)
- Use the root to unlock the SAMPLE user and expire the SAMPLE password, then try reconnecting to the database with the SAMPLE user. It should ask to reset the password then connect successfully. (Hint: you can use ALTER USER SAMPLEPASSWORD EXPIRE;)
- Shut down and disconnect the database on the host machine from the cmd prompt.

The code: [lab4_DB - Pastebin.com](https://pastebin.com/lab4_DB)

Users and privileges:



The screenshot shows the MySQL Workbench Administration - Users and Privileges window for a local instance of MySQL 8.0. The window is divided into several sections:

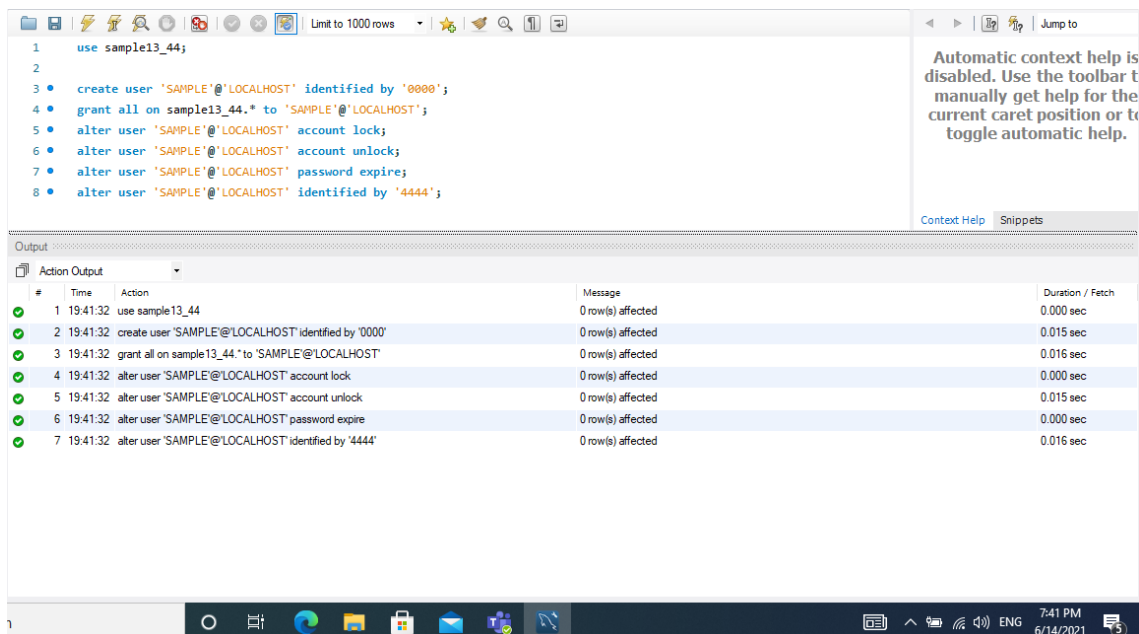
- User Accounts:** A table listing users and their host information.
- Details for account SAMPLE@localhost:** A section with tabs for Login, Account Limits, Administrative Roles, and Schema Privileges.
- Administrative Roles:** A list of roles with checkboxes and descriptions.
- Global Privileges:** A list of global privileges with checkboxes.
- Revoke All Privileges:** A button at the bottom.

User	From Host
Islam	localhost
SAMPLE	localhost
mysql.infoschema	localhost
mysql.session	localhost
mysql.sys	localhost
root	localhost

Role	Description
<input checked="" type="checkbox"/> DBA	grants the rights to perform all tasks
<input checked="" type="checkbox"/> MaintenanceAdmin	grants rights needed to maintain server
<input checked="" type="checkbox"/> ProcessAdmin	rights needed to assess, monitor, and kill any process
<input checked="" type="checkbox"/> UserAdmin	grants rights to create users logins and reset passwords
<input checked="" type="checkbox"/> SecurityAdmin	rights to manage logins and grant and revoke privileges
<input checked="" type="checkbox"/> MonitorAdmin	minimum set of rights needed to monitor server
<input checked="" type="checkbox"/> DBManager	grants full rights on all databases
<input checked="" type="checkbox"/> DBDesigner	rights to create and reverse engineer any database
<input checked="" type="checkbox"/> ReplicationAdmin	rights needed to setup and manage replication
<input checked="" type="checkbox"/> BackupAdmin	minimal rights needed to backup any database
<input checked="" type="checkbox"/> Custom	custom role

Global Privileges
<input checked="" type="checkbox"/> ALTER
<input checked="" type="checkbox"/> ALTER ROUTINE
<input checked="" type="checkbox"/> CREATE
<input checked="" type="checkbox"/> CREATE ROUTINE
<input checked="" type="checkbox"/> CREATE TABLESPACE
<input checked="" type="checkbox"/> CREATE TEMPORARY TABLES
<input checked="" type="checkbox"/> CREATE USER
<input checked="" type="checkbox"/> CREATE VIEW
<input checked="" type="checkbox"/> DELETE
<input checked="" type="checkbox"/> DROP
<input checked="" type="checkbox"/> EVENT
<input checked="" type="checkbox"/> EXECUTE
<input checked="" type="checkbox"/> FILE

Sample runs:



The screenshot shows the MySQL Workbench SQL Editor and Output window. The SQL Editor contains a script with 8 lines of SQL commands. The Output window shows the execution results of these commands.

```
1 use sample13_44;
2
3 create user 'SAMPLE'@'LOCALHOST' identified by '0000';
4 grant all on sample13_44.* to 'SAMPLE'@'LOCALHOST';
5 alter user 'SAMPLE'@'LOCALHOST' account lock;
6 alter user 'SAMPLE'@'LOCALHOST' account unlock;
7 alter user 'SAMPLE'@'LOCALHOST' password expire;
8 alter user 'SAMPLE'@'LOCALHOST' identified by '4444';
```

#	Time	Action	Message	Duration / Fetch
1	19:41:32	use sample13_44	0 row(s) affected	0.000 sec
2	19:41:32	create user 'SAMPLE'@'LOCALHOST' identified by '0000'	0 row(s) affected	0.015 sec
3	19:41:32	grant all on sample13_44.* to 'SAMPLE'@'LOCALHOST'	0 row(s) affected	0.016 sec
4	19:41:32	alter user 'SAMPLE'@'LOCALHOST' account lock	0 row(s) affected	0.000 sec
5	19:41:32	alter user 'SAMPLE'@'LOCALHOST' account unlock	0 row(s) affected	0.015 sec
6	19:41:32	alter user 'SAMPLE'@'LOCALHOST' password expire	0 row(s) affected	0.000 sec
7	19:41:32	alter user 'SAMPLE'@'LOCALHOST' identified by '4444'	0 row(s) affected	0.016 sec

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19042.1052]
(c) Microsoft Corporation. All rights reserved.

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u root -p
Enter password: ****
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u root -p
Enter password: ****
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql -u root -p
Enter password: ****
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)

C:\Program Files\MySQL\MySQL Server 8.0\bin>
```

```
mysql -u root -p
Database changed
Query OK, 0 rows affected (0.18 sec)

Query OK, 0 rows affected (0.07 sec)

Query OK, 0 rows affected (0.07 sec)

Query OK, 0 rows affected (0.08 sec)

Query OK, 0 rows affected (0.04 sec)

Query OK, 0 rows affected (0.07 sec)
```