Course: Database management
Unit: Intermediate SQL 2
Material: Roles

You can find many of the commands for this exercise in the following link
https://severalnines.com/database-blog/database-user-management-managing-roles-mariadb

1. Run a MariaDB server.
2. From a terminal, connect to MariaDB as root.
3. Run: SHOW GRANTS; to see the grants for the current user.
4. Run: SELECT CURRENT_ROLE; to see the current role.
5. Run: SELECT user FROM mysql.user WHERE is_role='Y'; to see the list of roles.
6. Run: SELECT * FROM information_schema.applicable_roles; to see the list of available roles.
7. Run: SELECT * FROM information_schema.enabled_roles; to see the list of active roles.
8. Run: SELECT * FROM mysql.roles_mapping; to see the roles that have been granted to the users.
9. Create a database named testing;
10. Create a user 'testuser'@'%' identified by 'password'.
11. Check the grants for the new user. SHOW GRANTS for 'testuser'@'%';
12. Open a second terminal.
13. In the new terminal, connect to MariaDB with the new user testuser.
14. In the testuser terminal, try to use the testing database. Does it work?
15. Move back to the root terminal. Create a role named "qateam".
16. Give the select, insert, update and delete privileges on the testing database to the role qateam.
17. Move back to the testuser terminal. Try to change the role to qateam. Does it work?
18. Move back to the root terminal and grant the qateam role to testuser.
19. Move back the testuser terminal and try to change the role to qateam. Does it work this time?
20. Try to use the testing database. Does it work?
21. Check the grants for the current user.
22. Check the current role.
23. Move back to the root terminal.
24. Check the grants for the current user;
25. Check the current role.
26. Change the role to qateam.
27. Check the grants for the current user.
28. Check the current role.
29. Show the list of roles.
30. Show the list of available roles.

31. Show the list of active roles.
32. Show the roles that have been granted to the users.