

## MYSQL Server Users

There are two categories of users in MYSQL server DB:

### 1. SYSTEM User

A user with the SYSTEM\_USER privilege is a system user

### 2. Regular User

A user without the SYSTEM\_USER privilege is a regular user

The **SYSTEM\_USER** privilege has an effect on the accounts to which a given user can apply its other privileges, as well as whether the user is protected from other accounts:

- A **system user** can modify both system and regular accounts. That is, a user who has the appropriate privileges to perform a given operation on regular accounts is enabled by possession of SYSTEM\_USER to also perform the operation on system accounts. A system account can be modified only by system users with appropriate privileges, not by regular users.
- A **regular user** with appropriate privileges can modify regular accounts, but not system accounts. A regular account can be modified by both system and regular users with appropriate privileges

If a user has the appropriate privileges to perform a given operation on regular accounts, SYSTEM\_USER enables the user to also perform the operation on system accounts. *SYSTEM\_USER does not imply any other privilege*, so the ability to perform a given account operation remains predicated on possession of any other required privileges.

The distinction between system and regular accounts enables better control over certain account administration issues by protecting accounts that have the SYSTEM\_USER privilege from accounts that do not have the privilege.

For example, the CREATE USER privilege enables not only creation of new accounts, but modification and removal of existing accounts. Without the system user concept, a user who has the CREATE USER privilege can modify or drop any existing account, including the root account.

***The concept of system user enables restricting modifications to the root account (itself a system account) so they can be made only by system users.*** Regular users with the CREATE USER privilege can still modify or drop existing accounts, but only regular accounts.

## Privileges

```
SELECT
INSERT
UPDATE
DELETE
CREATE USER
ALTER
CREATE VIEW
SYSTEM_USER
```

List of all available Privileges in MYSQL SERVER

Link: <https://dev.mysql.com/doc/refman/8.0/en/privileges-provided.html>