

# Users and Privileges

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Watch video lecture: <https://youtu.be/u6hB-rphVjY?t=4384>

# Users

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- MySQL provides the CREATE USER statement to allow you to create a new user in a database server.
- The syntax of the CREATE USER statement is as follows:

```
CREATE USER Username IDENTIFIED BY password;
```

- Please note capital letter at the start of Username --- all caps will not work.

# Users

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- For example, to create a new user called Manager that connects from localhost with the password boss, you use the CREATE USER statement as follows:

```
create user Manager identified by 'boss';
```

# MySQL Grant

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- Now that we have created users, we can grant a range of privileges to that user on different schemas and objects.
- When granting privileges we can either specify all privileges or list the privileges that we want to grant.
- This example grants all privileges to the Manager user on all tables within the library schema, and also gives the Manager the option to grant those privileges to other users.

```
grant all on library.* to Manager with grant option;
```

# MySQL Grant

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- For some users, we may wish them to only have certain privileges on certain tables, not all tables.
- For example, clerk in our library database may only need SELECT, DELETE, INSERT and UPDATE on all the tables.

```
grant insert, update, delete, select on  
library.* to Clerk;
```

# MySQL Revoke

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- We can also delete privileges from a user after they have been granted. For example, we may wish to stop our clerks from deleting records from the student table.

```
revoke delete on student from Clerk;
```

- In the same way as when granting privileges, the ALL command (i.e. REVOKE ALL) can be used to revoke all of a user's privileges in one operation.

# Remove an Account

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- To remove one or more user accounts, you use the **DROP USER** statement as follows:

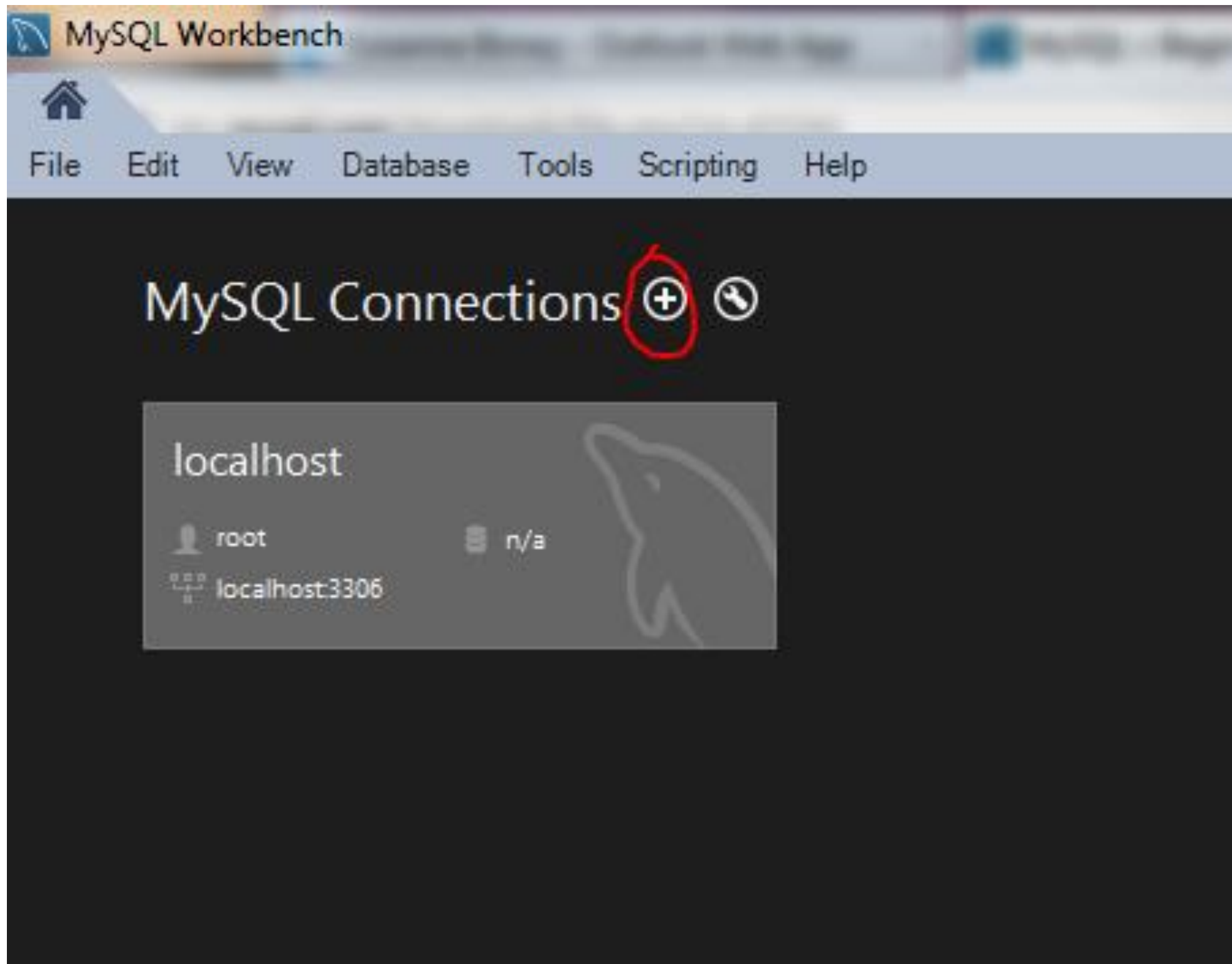
```
DROP USER user, [user], ...;
```

- For example to remove the user account Clerk:

```
drop user Clerk;
```

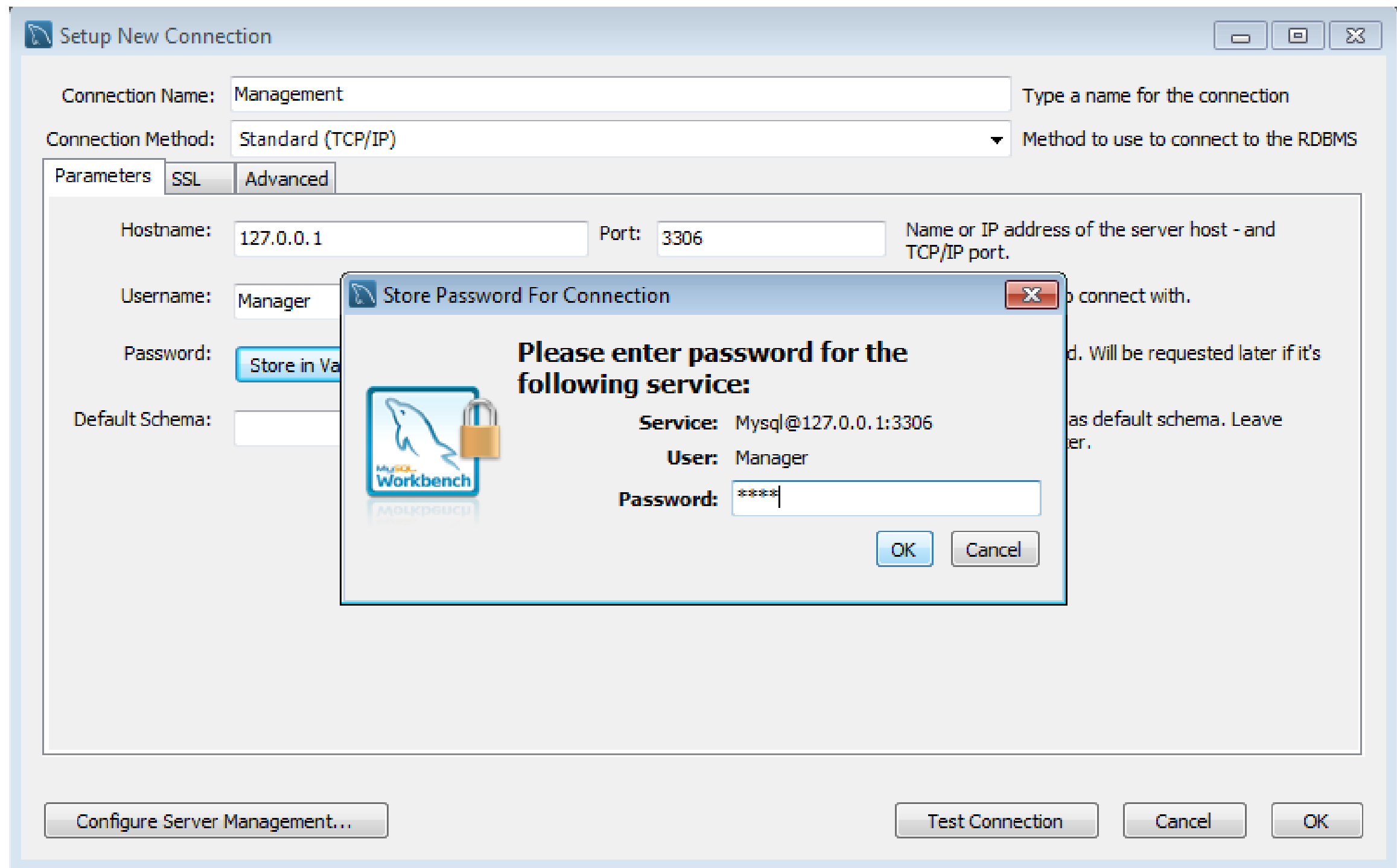
# MySQL Workbench: Logging in as different user

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# MySQL Workbench: Logging in as different user



# MySQL Workbench: Logging in as different user

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