

```
<role rolename="admin-gui"/>
<user username="admin" password="root" roles="manager-gui,admin-gui"/>
```

Add this above snippet in tomcat-user.xml so that we can run manage apps

Add mysql connector in lib folder of tomcat
Set username pwd as root root

Execute the below commands before executing any crudops at mysql commandline client
for db setting use the following cmds

```
create database emp;
use emp;
CREATE TABLE Employee (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL UNIQUE,
    salary DOUBLE NOT NULL
);
```

for making changes and for compiling the javacodes

javac -cp"path of servlet-api-jar"name of the file needed.
Servlet api jar is in lib section of codes

note check the connections and database names properly

```
C:\Program Files\Apache Software Foundation\Tomcat 10.1\webapps\crud\WEB-INF\src>javac
-cp "C:\Program Files\Apache Software Foundation\Tomcat 10.1\lib\servlet-api.jar" -d ../classes
EmployeeServlet.java
```

Example code

need to run this command for executing code in java recompile

Standalone servlet code
Only to execute servlet

Type localhost/world/world