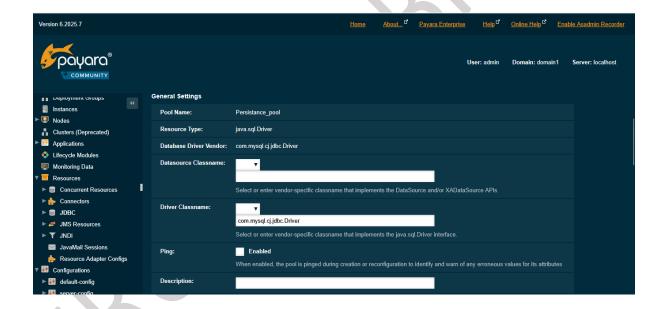
# # ENTERPRISE JAVA #

## **⇒** Java Persistance API :-

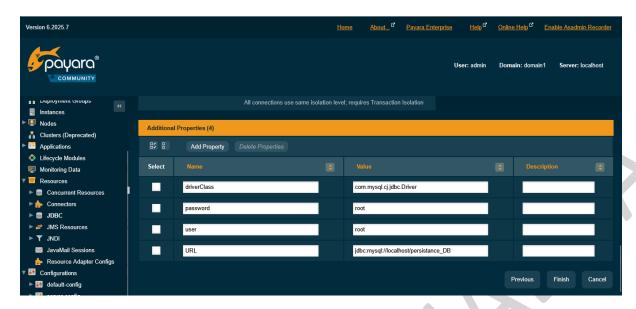
### JDBC Connection Pool :--

Go to Payara server -> Right Click -> View Domain Admin Console -> <a href="http://localhost:4848/common/index.jsf">http://localhost:4848/common/index.jsf</a>

In Domain Admin Console -> JDBC -> JDBC Connection Pool -> new -> Pool Name -> name(Persistance\_pool) -> Resource Type : java.sql.Driver -> Database Driver Vender : com.mysql.cj.jdbc.Driver -> Next -> Driver Classname : com.mysql.cj.jdbc.Driver -> Additional Properties -> Password : (phpMyAdmin password) , user : root , URL : jdbc:mysql://localhost/persistance\_DB

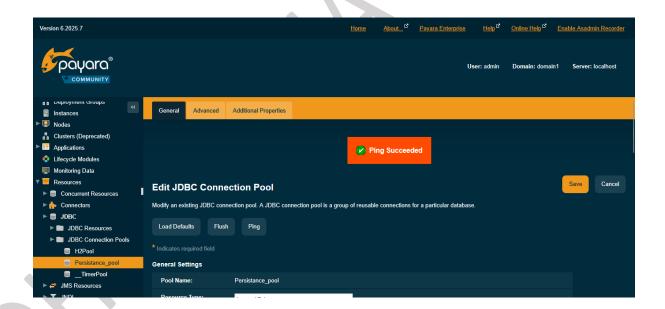


→ Then go to phpMyAdmin -> create new Database -> name same as above : persistence\_DB -> then return Payara Domain Admin console -> add new property -> driverClass :com.mysql.cj.jdbc.Driver

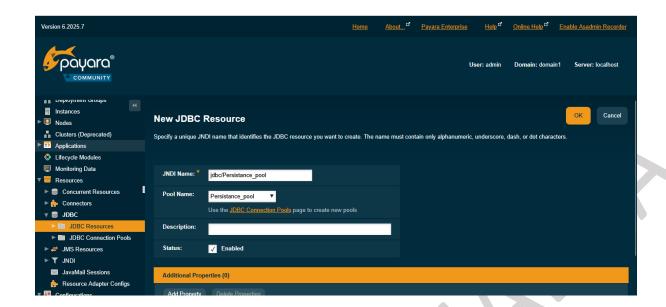


- → Note that
- payara6\glassfish\domains\domain1\lib\mysql-connector-j-8.0.29

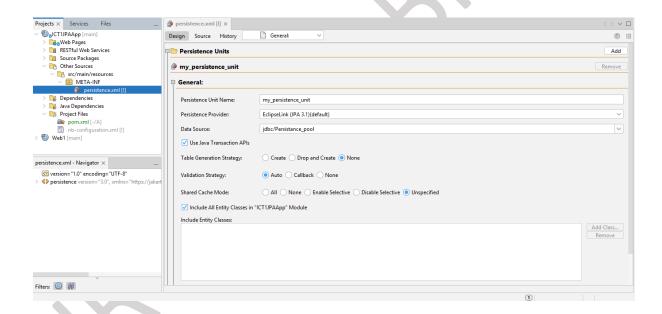
above in this location jar file compulsory -> restart payara server -> netbeans ->



After Ping Suceeded -> go to JDBC Resources -> New JDBC Resource -> JNDI Name : jdbc/Persistance\_pool -> Pool Name : Also Select Your Pool Name (Persistance\_pool)



## In netbeans -> persistence.xml :-



- → IN netbeans -> Source Packages -> new -> Entity Class -> name(Theater) -> package (entity) -> Finish
- → Then creating Entity(movie)

# JSF (Java Server Faces):-

→ For designing purpose need to create xhtml pages

#### How to create :--

➡ In .xhtml readymade form designing just Alt + Insert -> open JSF table From entity -> select entity -> Managed Bean property automatically selected. -> Templates styles must be Standard JavaServer Faces -> OK

#### What is JPA?

→ JPA (Java Persistence API) is a standard way to store, update, delete, and fetch Java objects from a database (like MySQL, PostgreSQL, etc.) without writing raw SQL.

## Why it's useful :-

- ➡ Because in enterprise apps (like yours with EJBs or Servlets), you often need to save Java data into a relational database.
- **⇒** JPA automates all of that.

You work with simple Java classes (called **entities**), and JPA handles the SQL behind the scenes.

#### How JPA works :-

**Entity Class** — A normal Java class mapped to a database table:

**EntityManager** — The main JPA object that handles database operations:

**Persistence Unit** — Defined in persistence.xml (inside META-INF/):

## Why we use it :-

- Simplifies database code (no JDBC boilerplate).
- ➡ Works across multiple databases (only config changes).
- **▶** Integrates easily with **EJB**, **Servlets**, **Spring**, etc.
- **→** Supports **object relationships** (@OneToMany, @ManyToOne, etc.)