
L7. ANEXA TUTORIAL Eclipse Derby Connection for Java Persistence API Project

IDE:	Eclipse Luna/ Mars JEE [4.4/4.5]
	Distribution: OEPE 12.1.3.x
Implementare JPA:	JPA 2.1 / EclipseLink 2.5.2
SGBD:	Derby.Embedded
Driver JDBC:	derby.jar

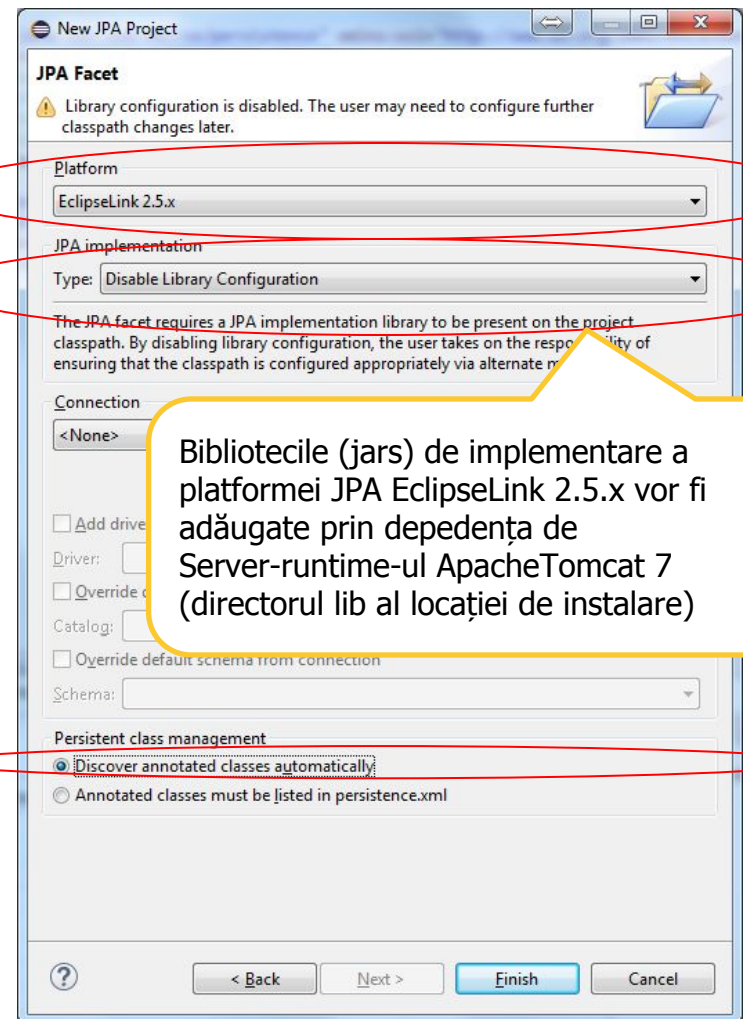
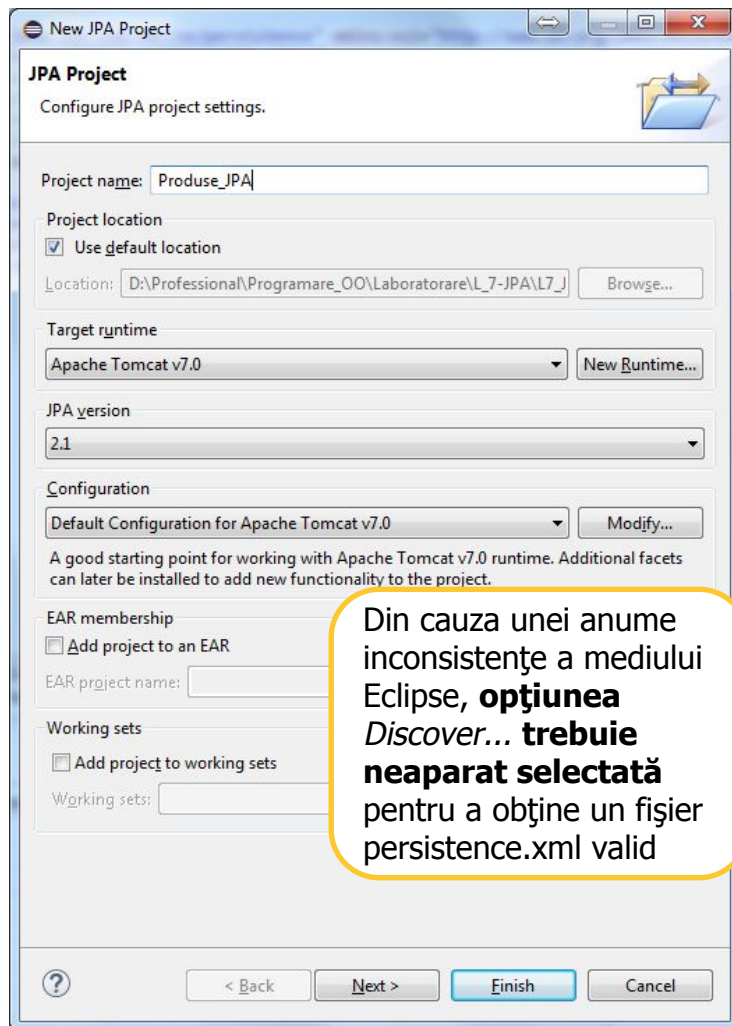
1.2.1 Create project JPA

File – New – JPA Project *wizard*

- **Pas 1:** JPA Project [Configure JPA Project Settings]
 - Project Name: **ProduseJPA**
 - Target Runtime: **Apache Tomcat v7.0**
 - JPA Version: **2.1**
 - Configuration: **Default Configuration**
 - **Pas 2:** Java [Configure project for building a Java application]
 - *Defaults*
 - **Pas 3:** JPA Facet [Configure JPA settings]
 - Platform: *Eclipse Link 2.5.x*
 - Connection: *Add connection*, optional
 - Persistent class management : *discover annotated classes automatically*
-

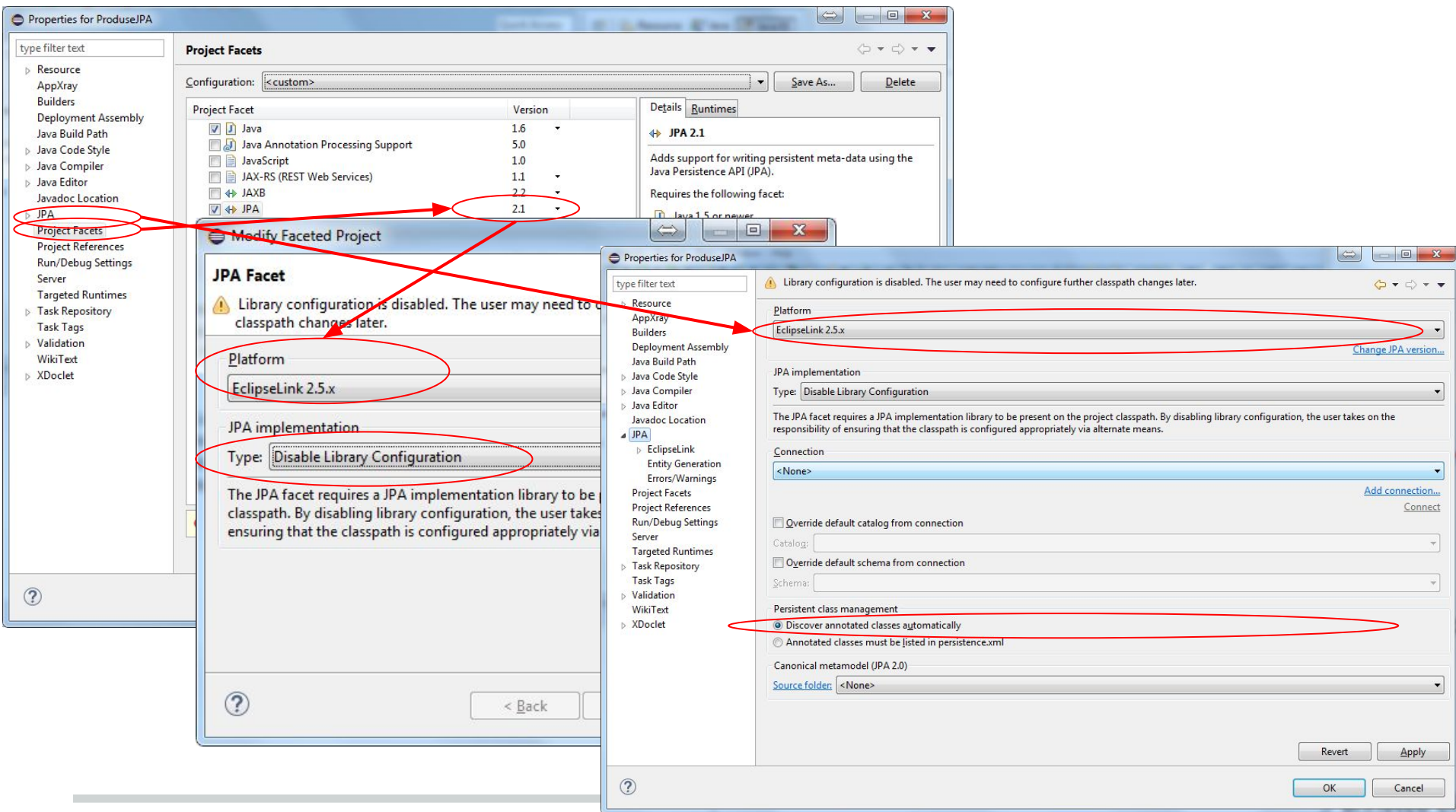
[Pas1: New JPA Project]

[Pas3: Configurare JPA Facet: Eclipse 2.5.x]

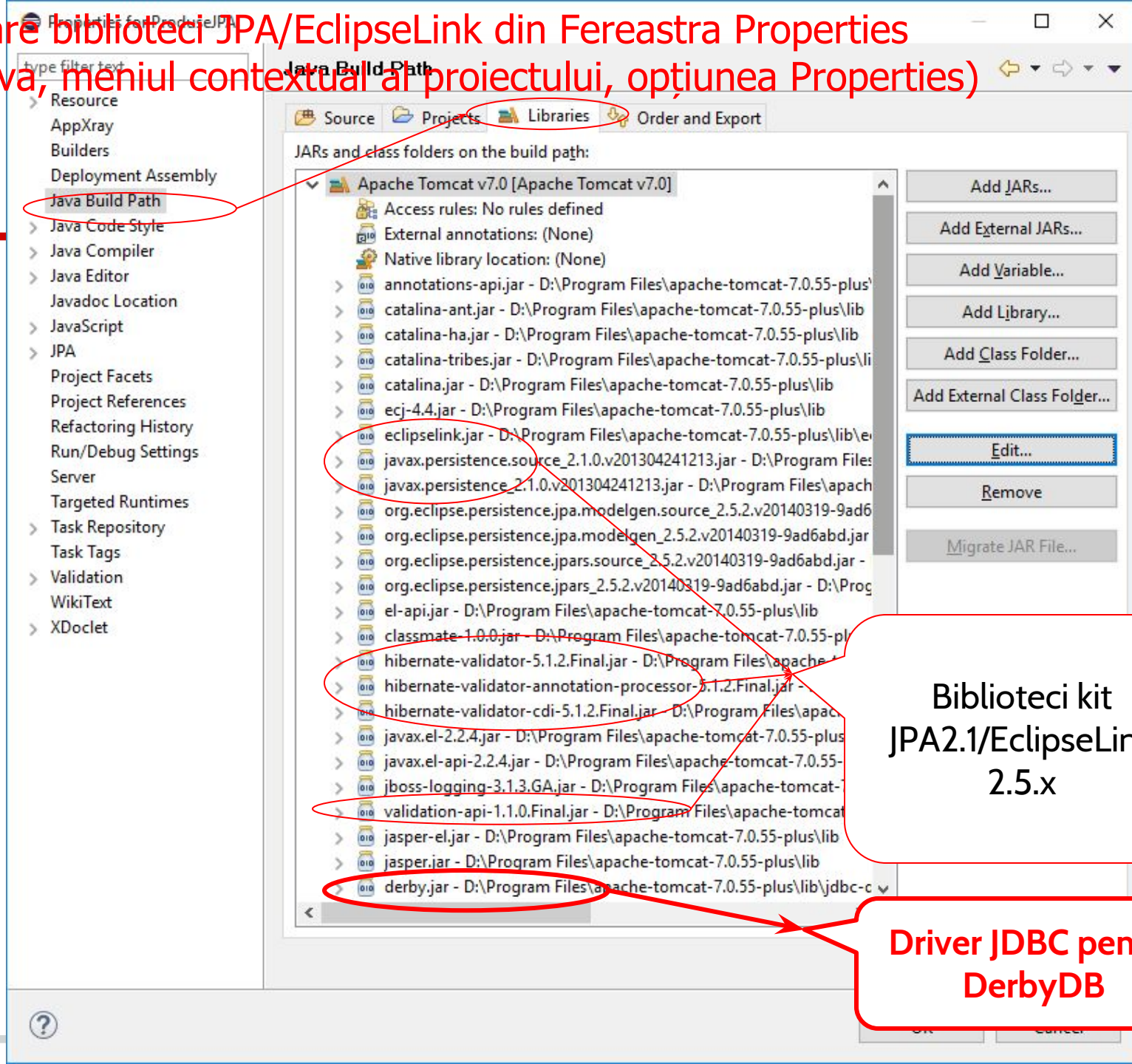


[Pas4: Project Properties (menu contextual): Verificare Project Facet with:

- JPA 2.1 checked;
- JPA Category with Eclipse Link 2.5.x].

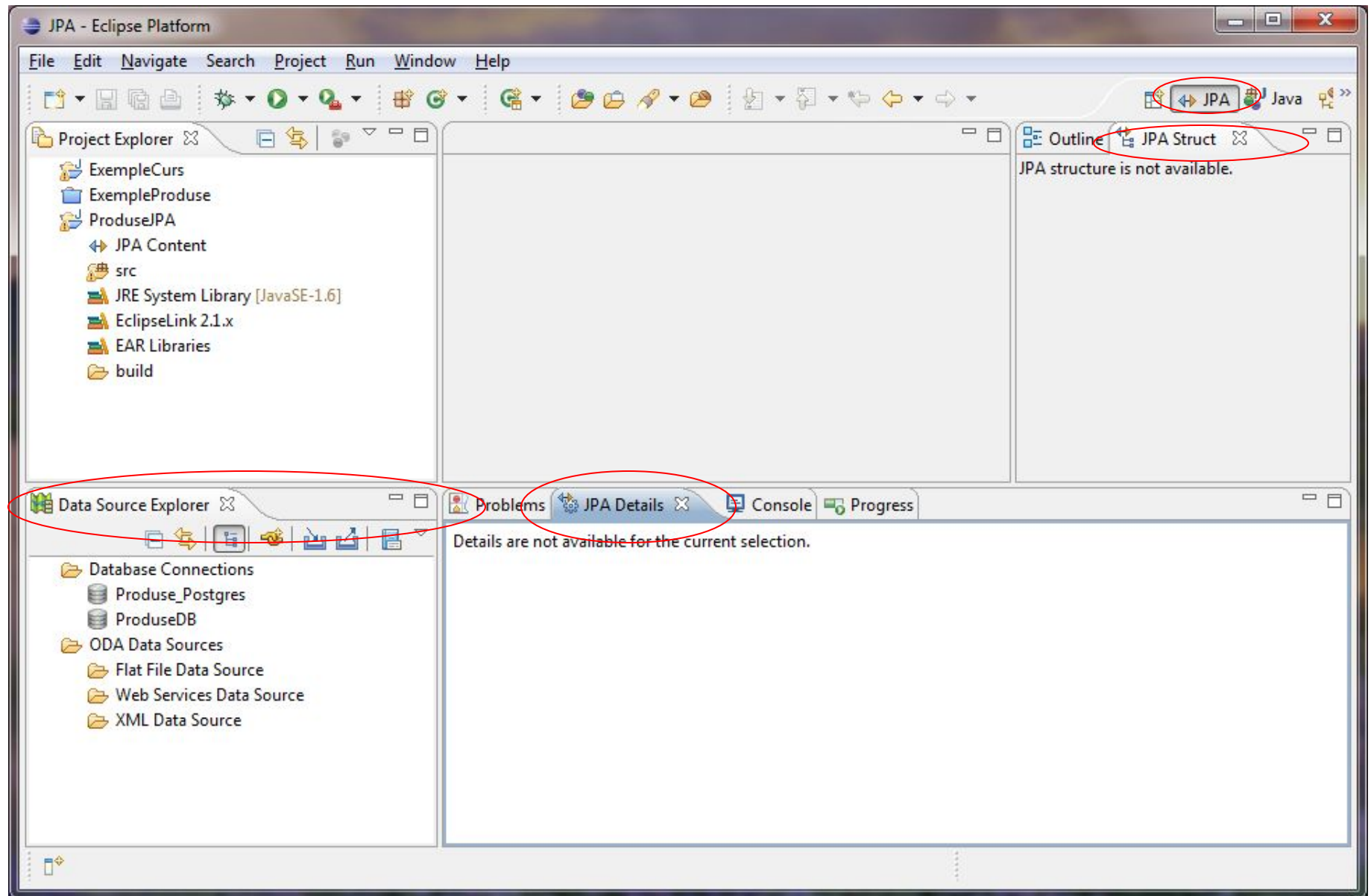


Verificare biblioteci JPA/EclipseLink din Fereastra Properties (pp. Java, meniul contextual al proiectului, opțiunea Properties)



Organizare mediu Eclipse - Perspectiva JPA

- Ferestre generice
 - Project Explorer
 - Problems
 - Outline
 - Ferestre specifice
 - Data Source Explorer
 - JPA Structure
 - JPA Details
-

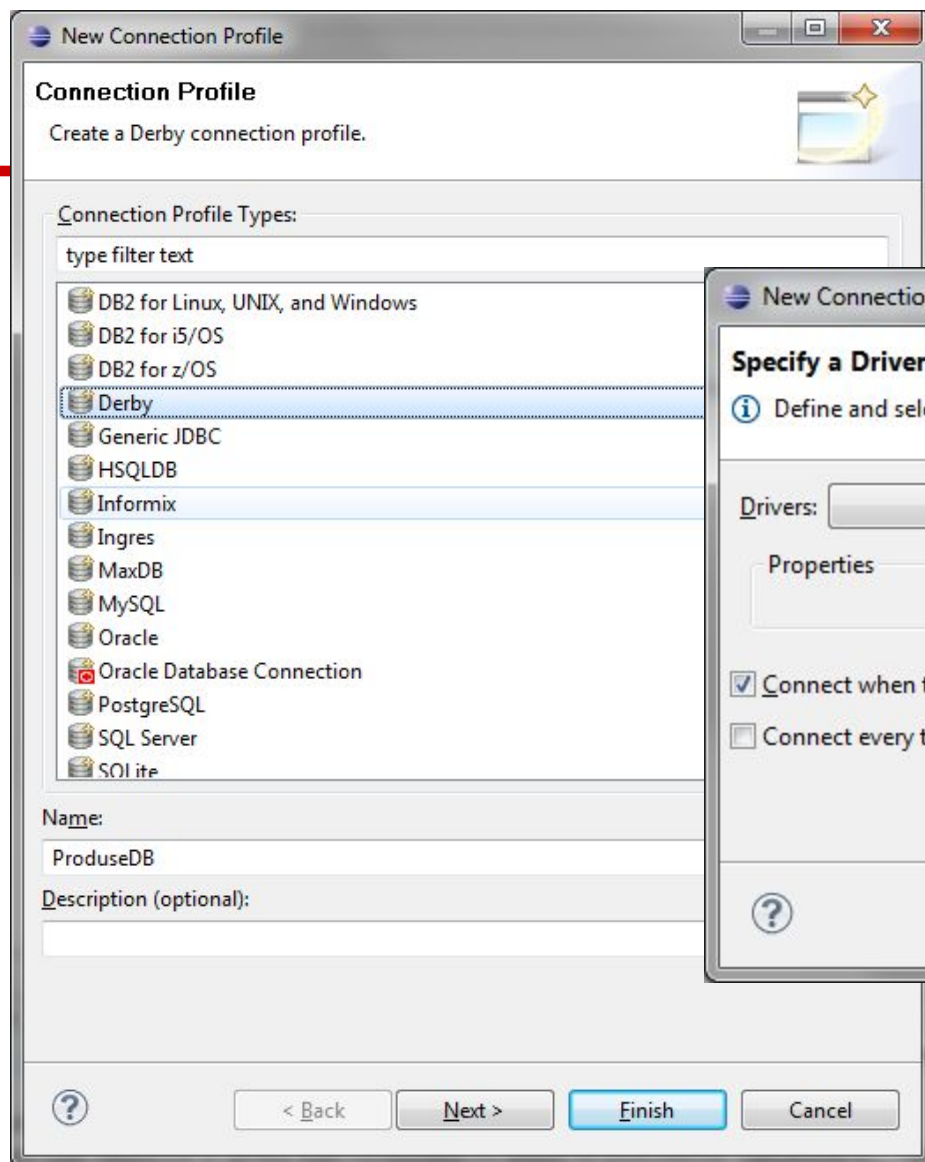


1.2.2 Conexiune server BD

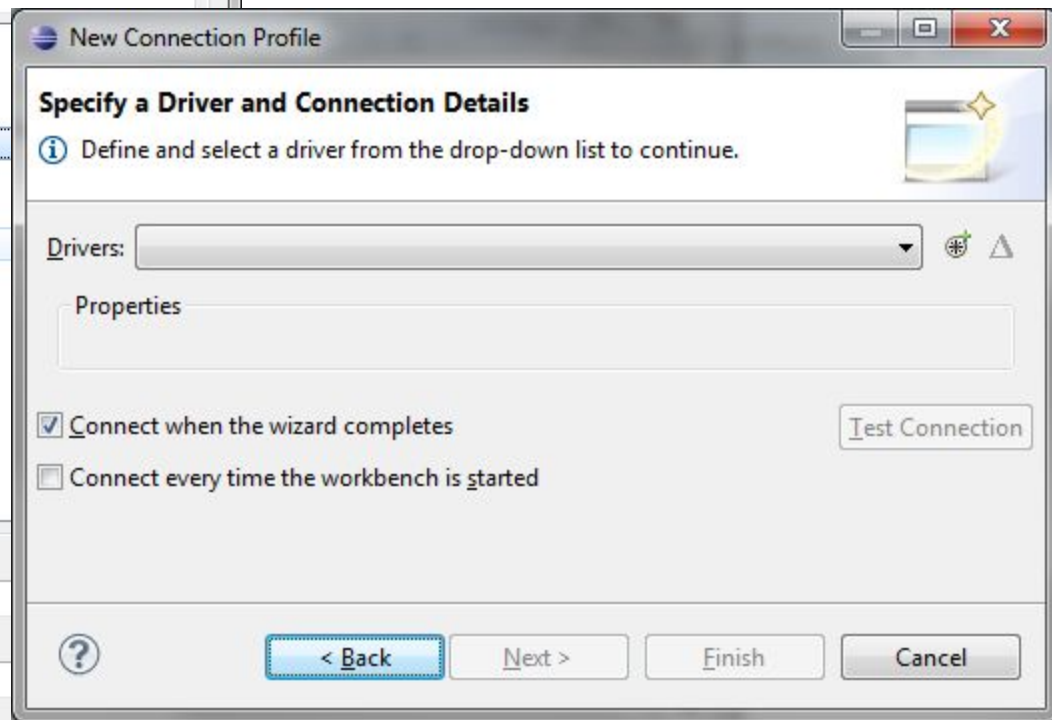
Perspectiva JPA – Data Source Explorer

- Creare conexiune bază de date Derby locală
- Data Source Explorer – Database Connections -New
 - Pas1: Connection profile
 - Connection profile type: Derby
 - Name: LocalDerby
 - Pas2: Specify a driver and Connection Details
 - Drivers: Derby Embedded JDBC Driver 10.1 Default
 - Properties General
 - **DB Location:** D:\JavaDerby\ProduseDB
 - D:\JavaDerby – director gazdă, trebuie să existe
 - ProduseDB – directorul bazei de date, nu tb să existe, va rezulta din crearea conexiunii
 - Username and Password
 - URL – generated
 - **Create database:** true
 - Save password: true
 - Pas3: Verificare conexiune în Data Source Explorer

Alegerea tipului de driver JDBC

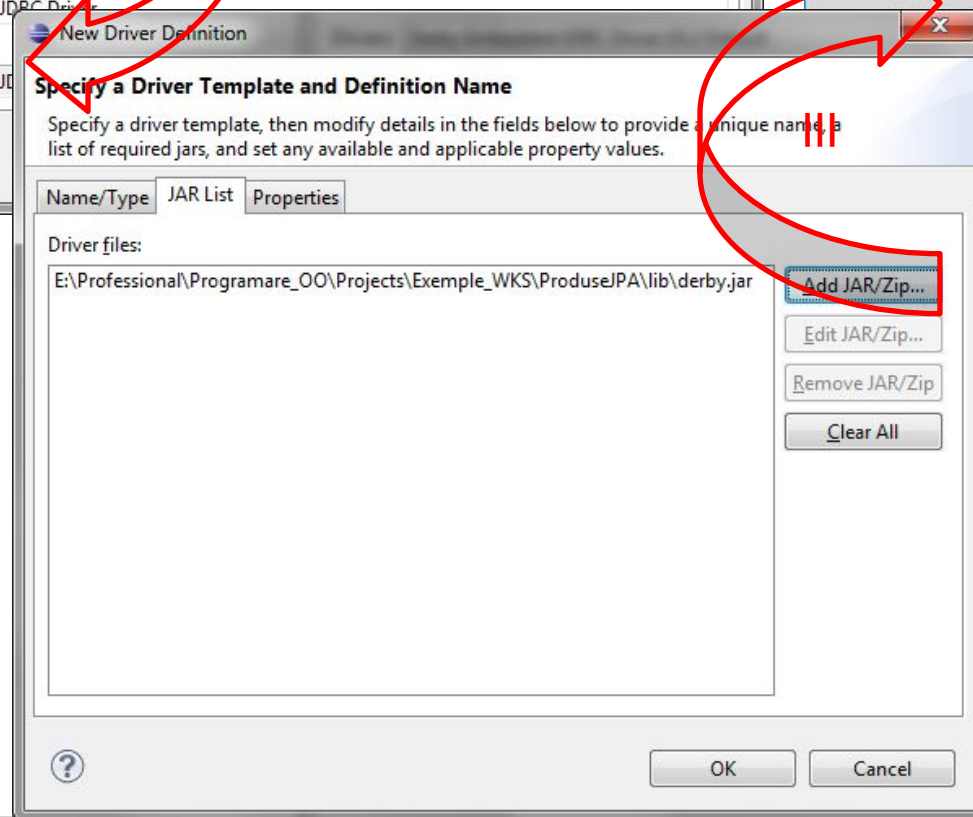
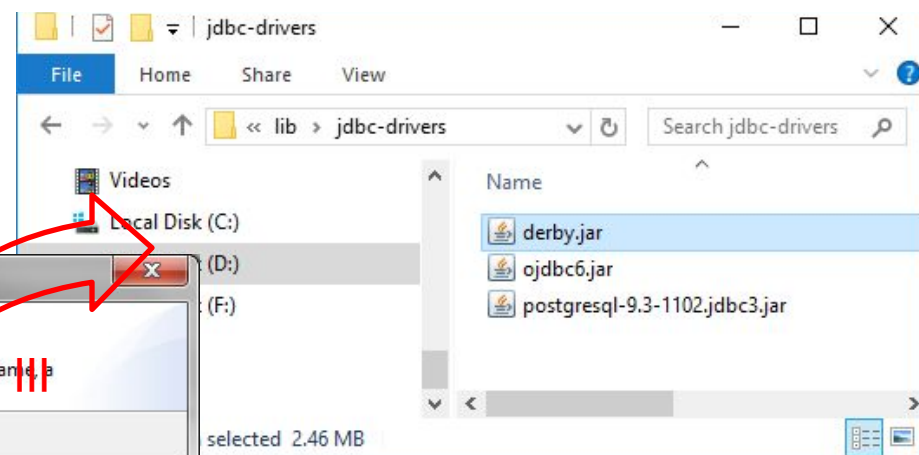
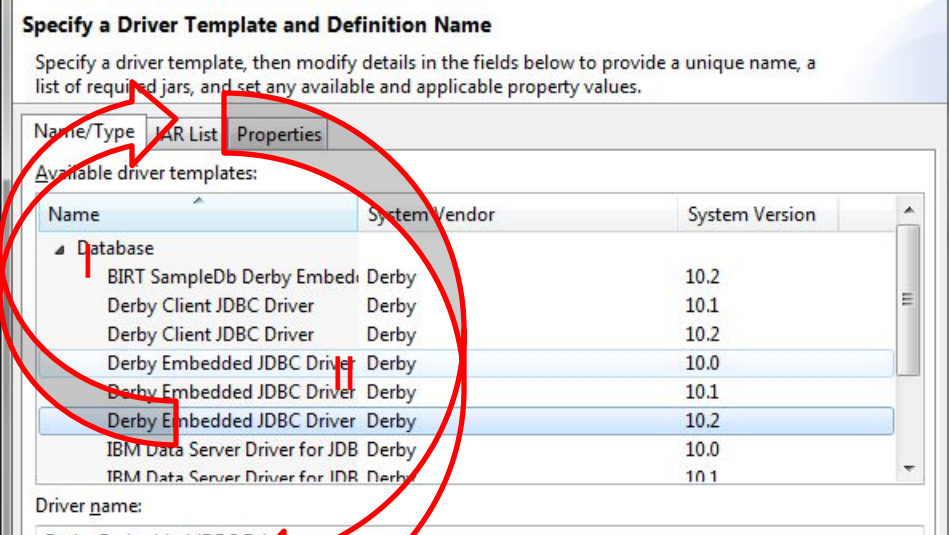


Dacă în pasul următor apare fereastra de mai jos înseamnă că ar mai urma niște **pași suplimentari** de configurare a bibliotecii JAR corespunzătoare implementării driverului JDBC ales ...(vezi pagina următoare)



Configurarea driverului JDBC (dacă nu este predefinit):

- I - Se alege Derby Embedded ... din listă
- II - Se comută pe pagina JAR List
- III- Se editează sau adaugă locația fișierul JAR corespunzător implementării driverului JDBC



Configurarea bazei de date Derby (locație, schemă, utilizator ...)

New Derby Connection Profile

Specify a Driver and Connection Details

Select a driver from the drop-down and provide login details for the connection.

Drivers: Derby Embedded JDBC Driver 10.2 Default

Properties

General Optional

Database location: D:\JavaDerby\ProduceDB Browse...

User name: produse

Password:

URL: jdbc:derby:D:\JavaDerby\ProduceDB;create=true

☒ Create database (if required)

☐ Upgrade database to current version

☒ Save password

☒ Connect when the wizard completes Test Connection

☐ Connect every time the workbench is started

? < Back Next > Finish Cancel

Directorul **D:\JavaDerby** trebuie să fie gol (sau pur și simplu să nu fie încă creat), subfolderul **ProduceDB** va fi creat implicit și va da și numele bazei de date.

