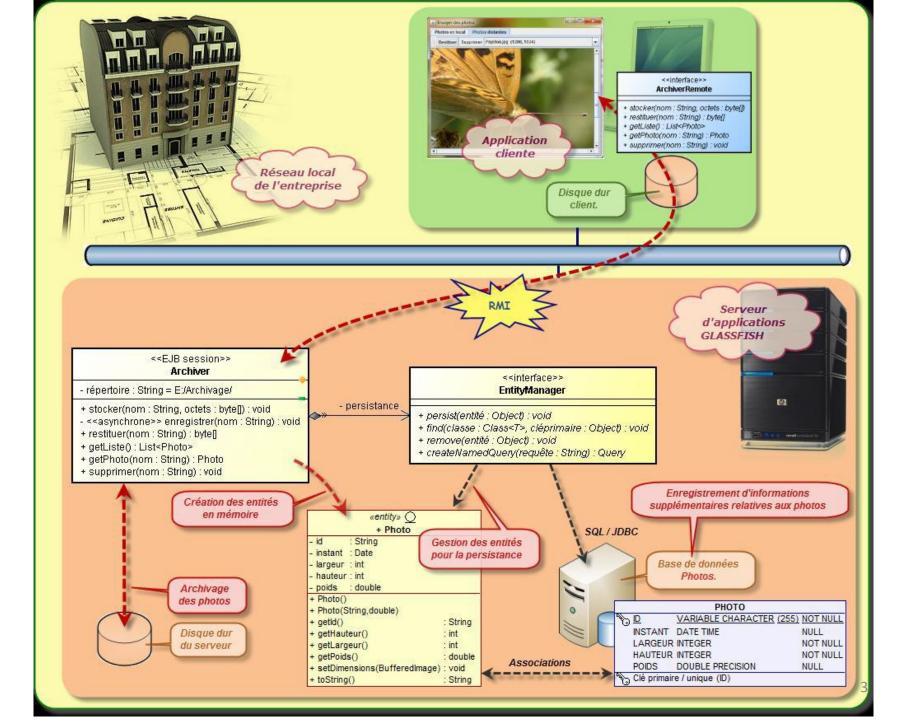
TP EJB

Préparé par M.G. BELKASMI

Archivage de Photos

Nous allons réaliser une application d'archivage de photos composé de:

- Un ejb permettant d'archiver des photos sur le serveur
- Une application cliente permettant de :
 - choisir les photos en local à archiver sur le serveur
 - Consulter les photos sur serveur
 - Récupérer les photos archivées

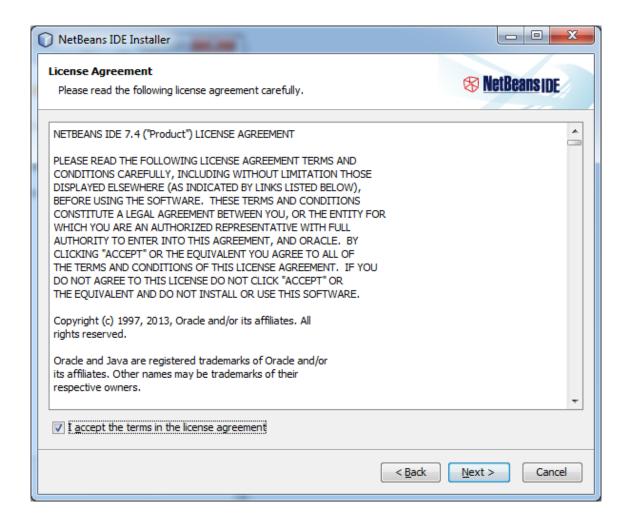


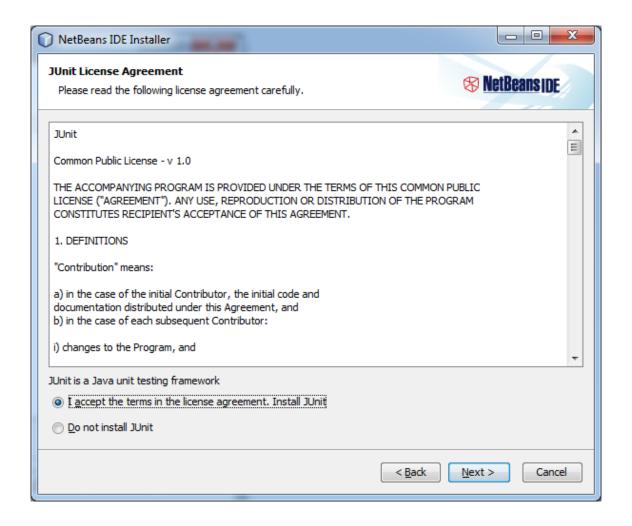
Archivage de Photos

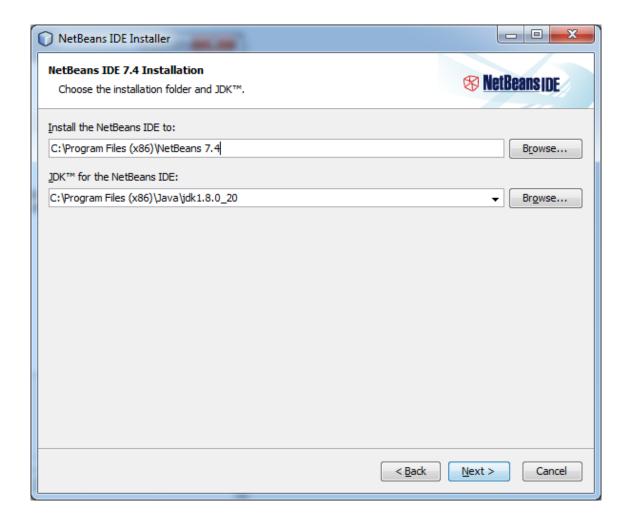
- Nous réaliserons cette application sous NetBeans (avec TomCat et GlassFish incorporés).
- Téléchargeable sur

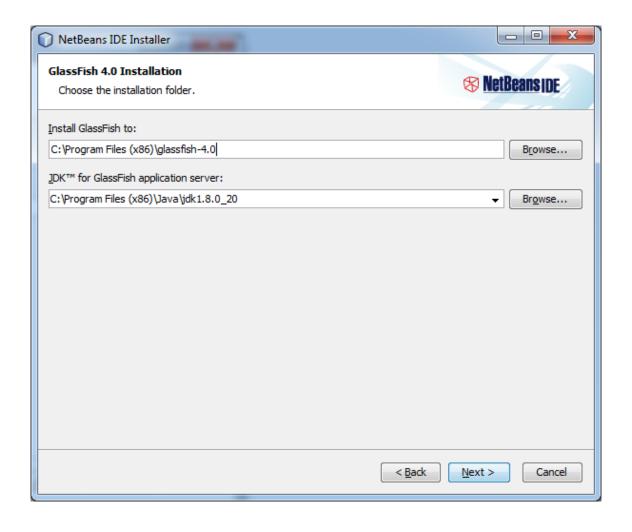
https://netbeans.org/

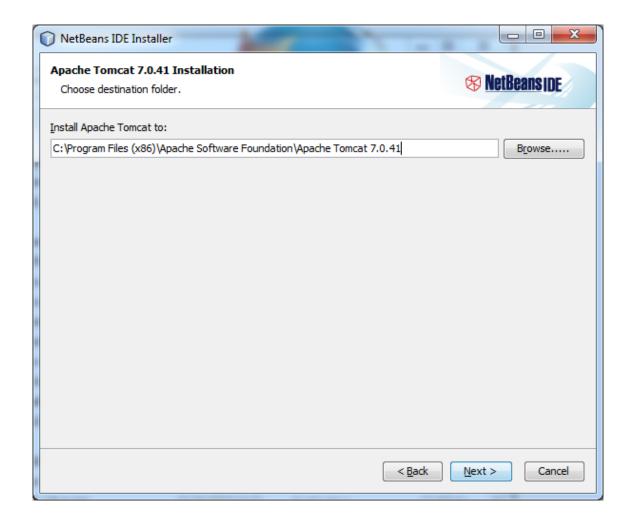


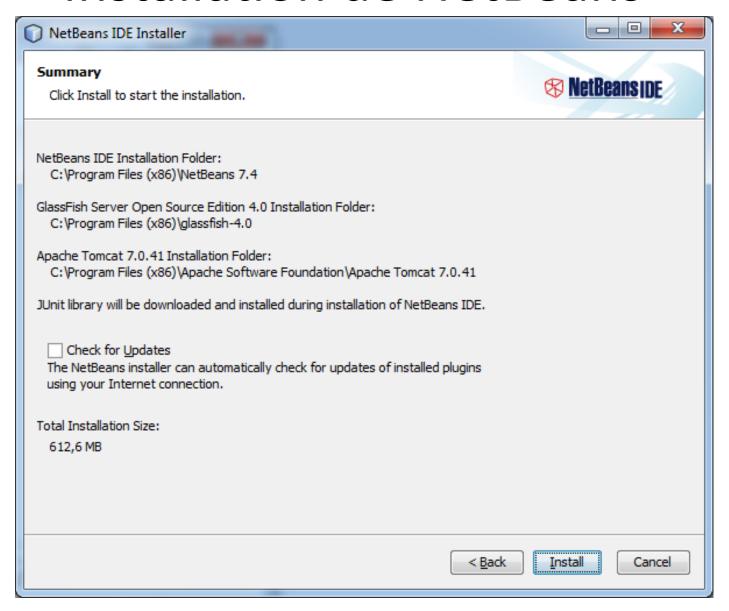


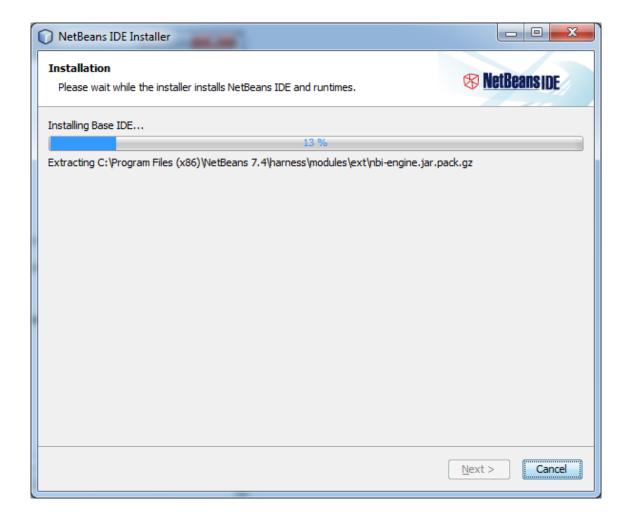


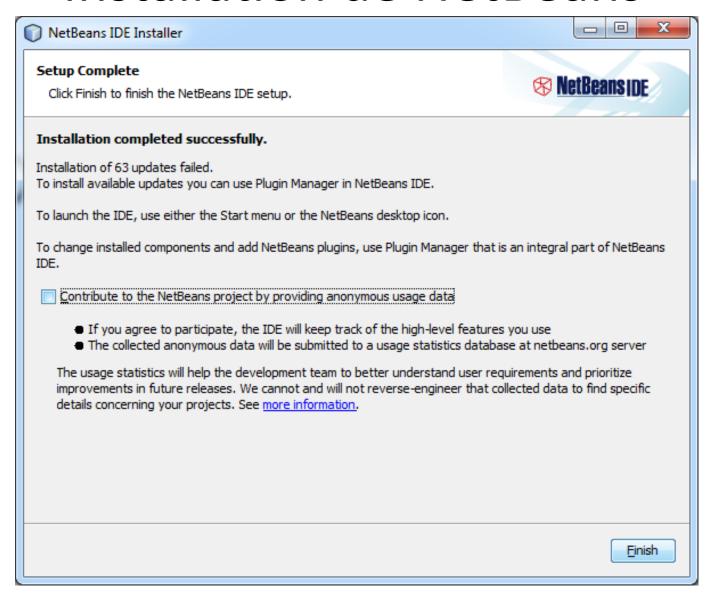


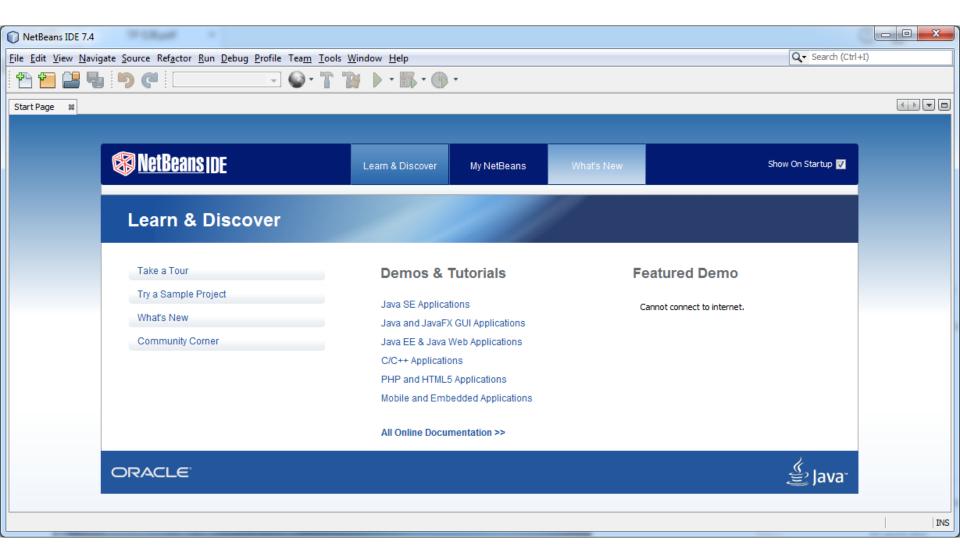




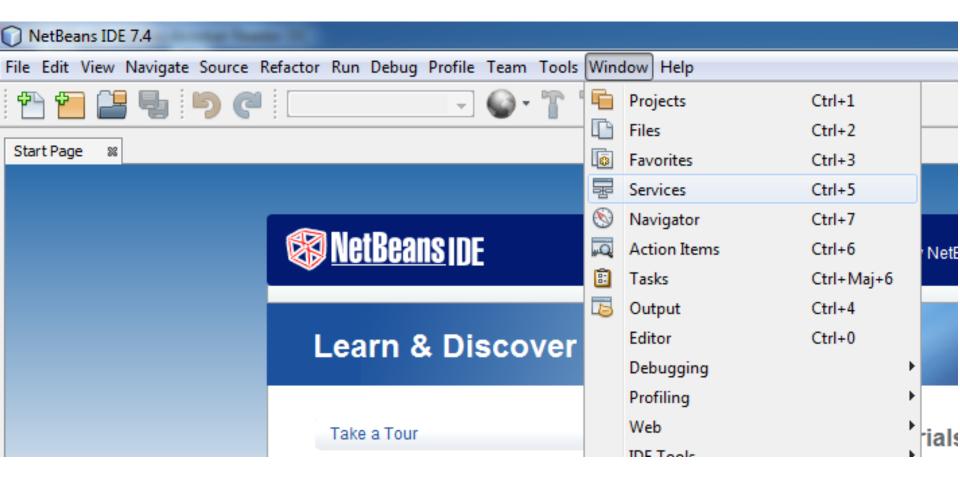


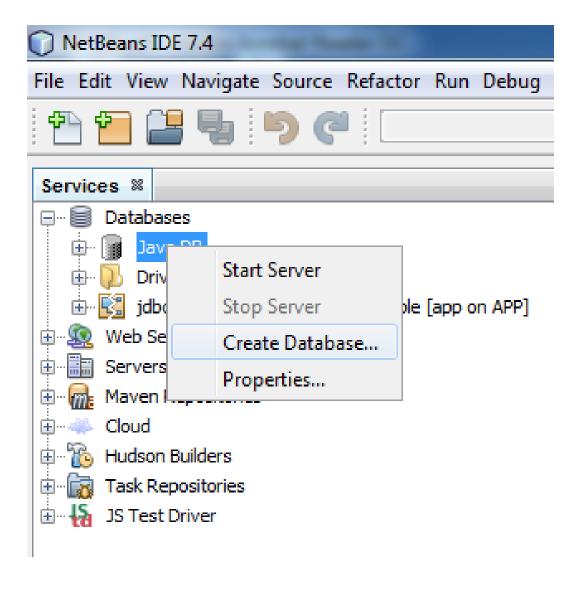


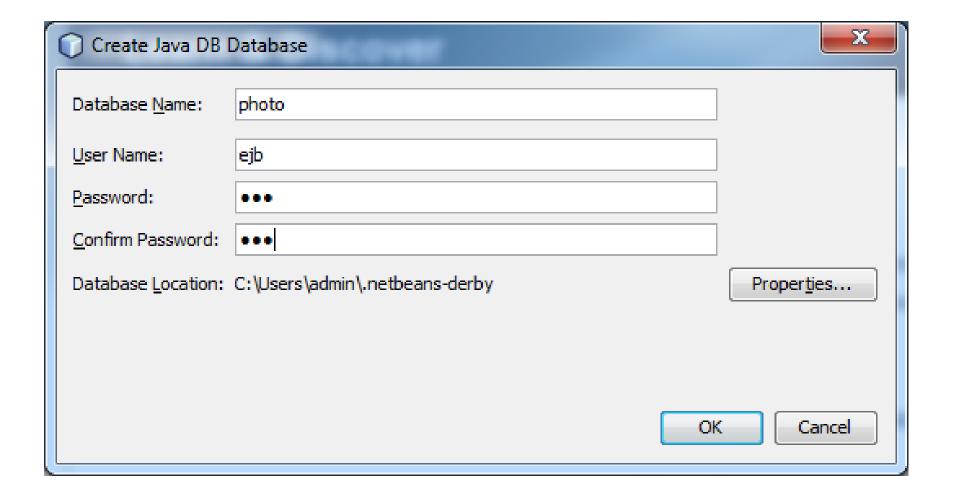


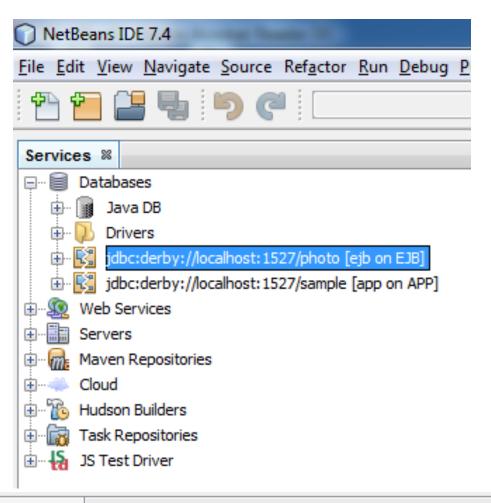


- Procédons à créer la base de données.
- Nous optons pour une base de données embarquée JavaDB.





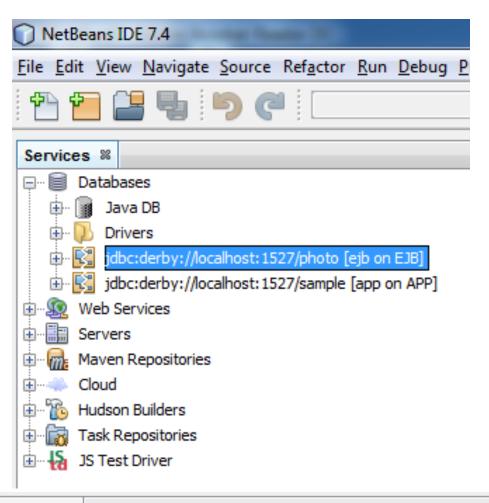




Output - Java DB Database Process 🐰

: Le gestionnaire de sécurité a été installé à l'aide de la stratégie de sécurité de serveur de base.

: Apache Derby Network Server - 10.10.1.3 - (1557168) démarré et prêt à accepter les connexions sur l

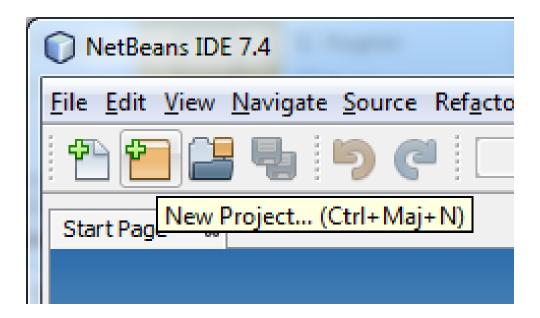


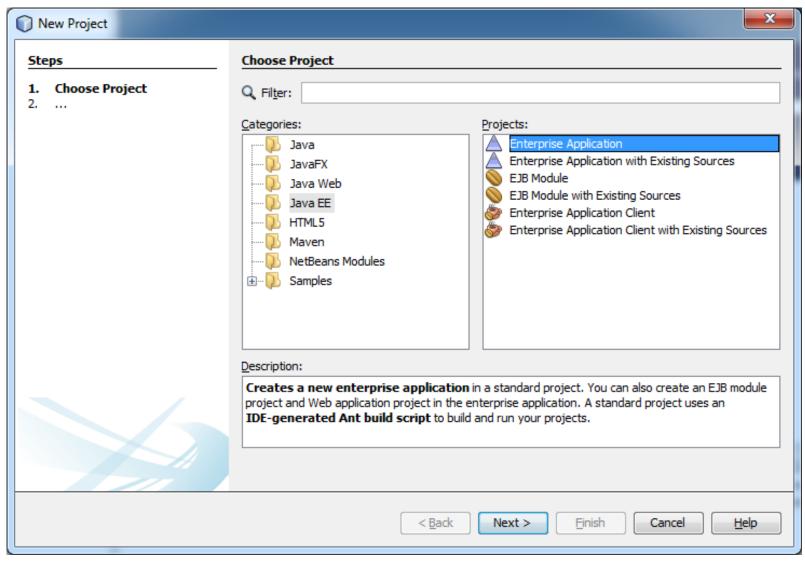
Output - Java DB Database Process 🐰

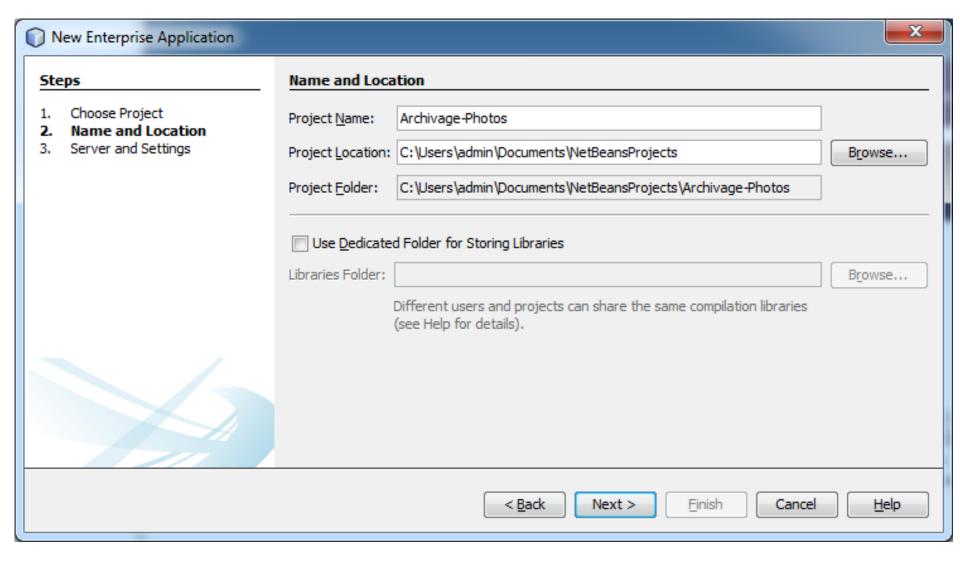
: Le gestionnaire de sécurité a été installé à l'aide de la stratégie de sécurité de serveur de base.

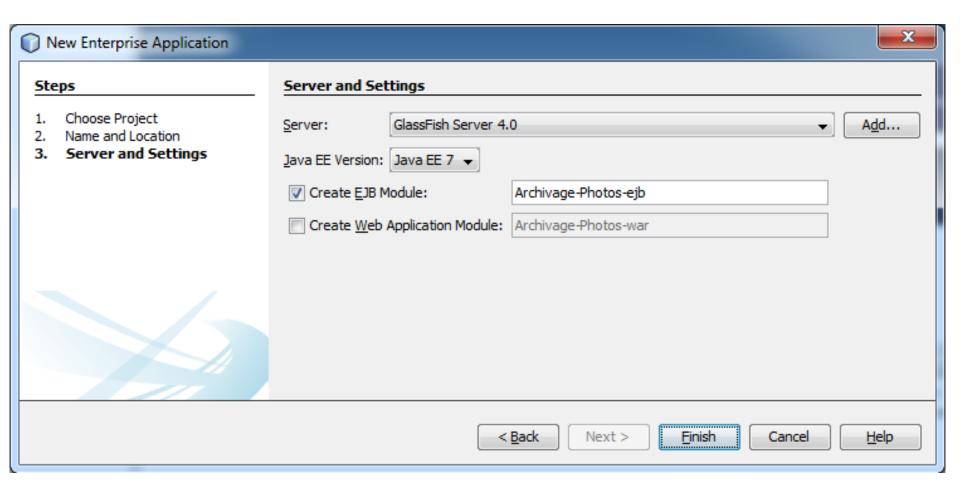
: Apache Derby Network Server - 10.10.1.3 - (1557168) démarré et prêt à accepter les connexions sur l

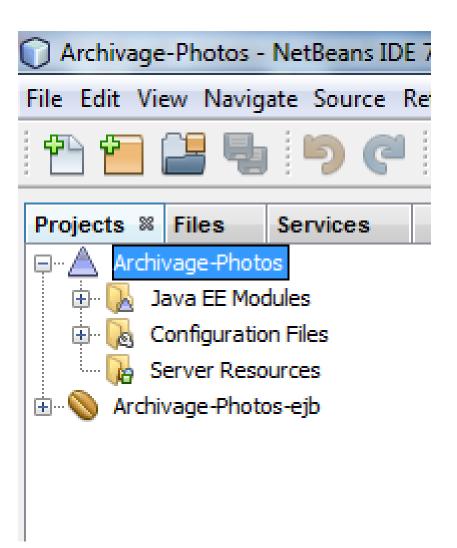
 Créons maintenant notre projet (Enterprise Application)



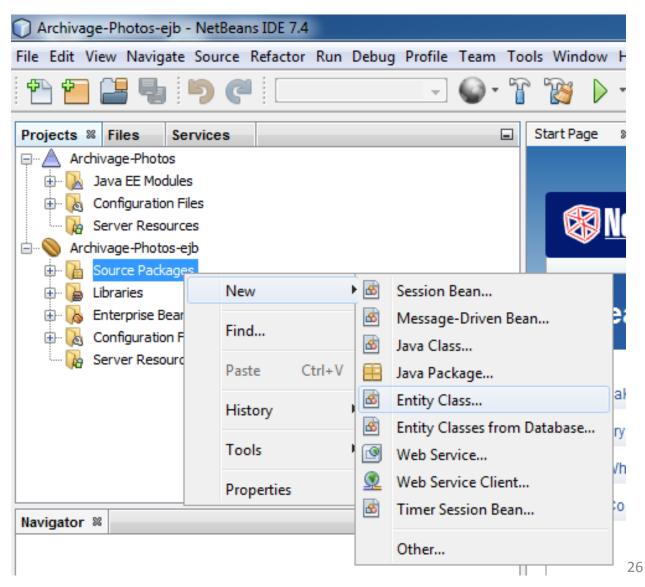


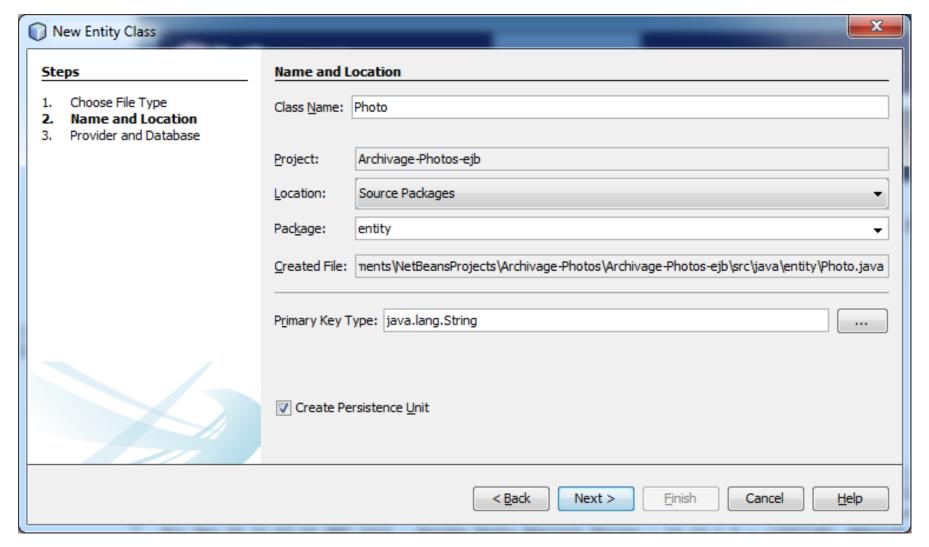


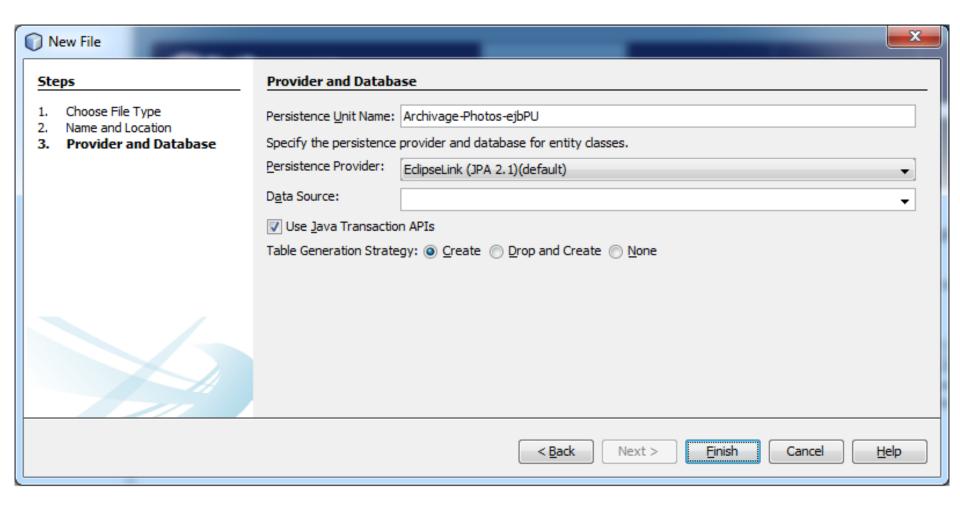


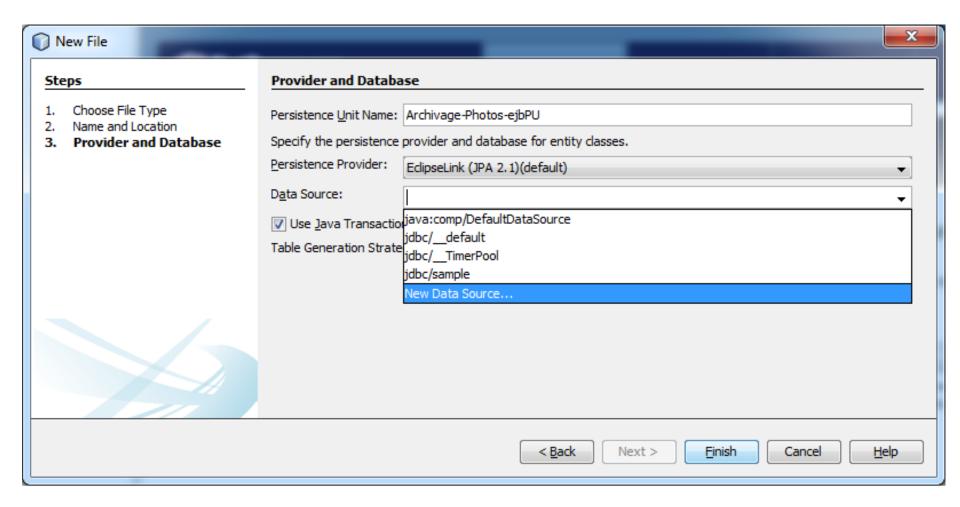


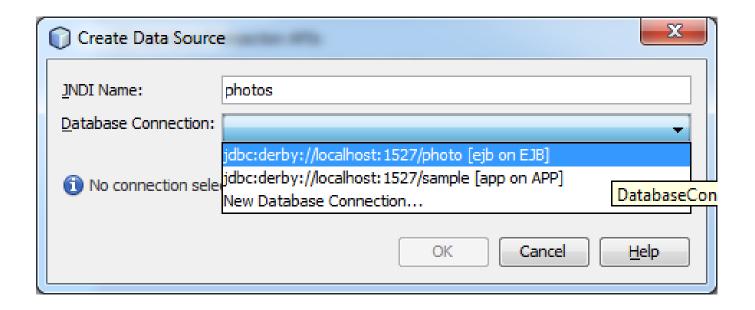
 Création du bean entité et de l'unité de persistance

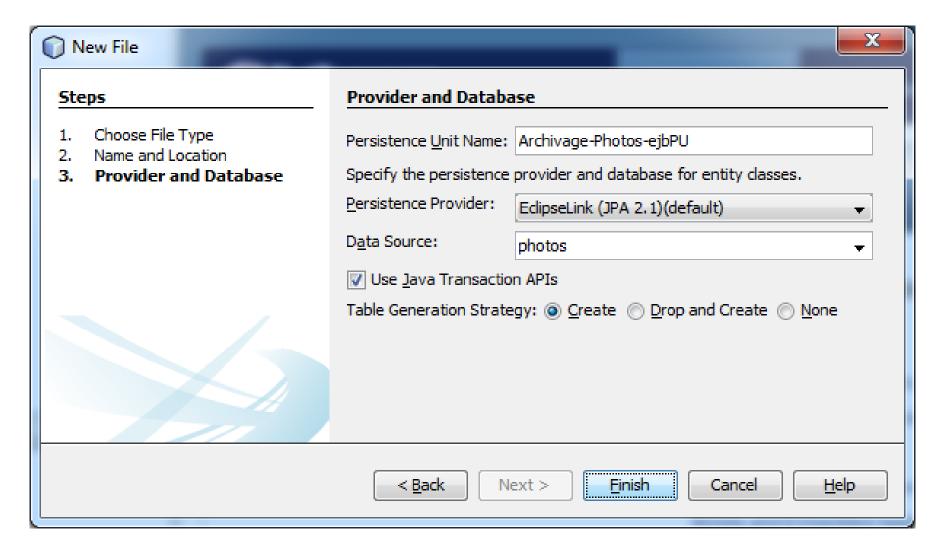












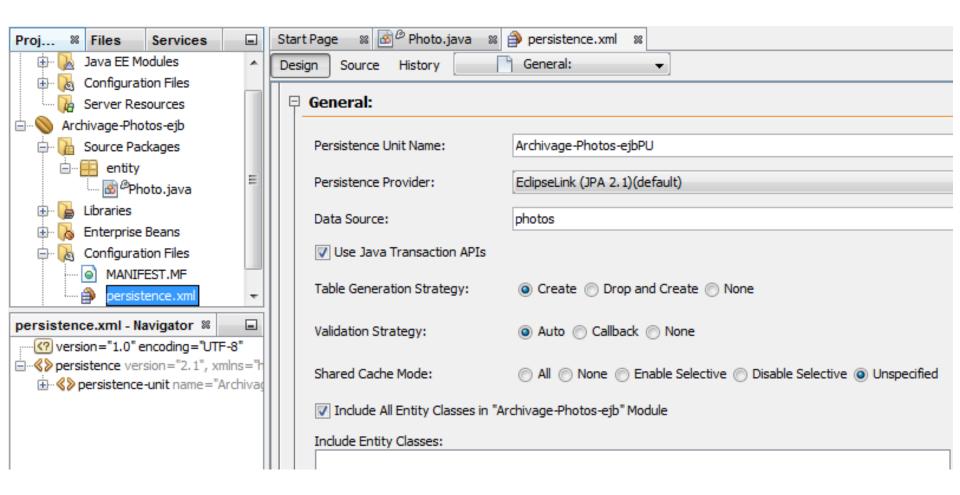
```
Photo.java
                                Start Page
         Files
                            Proj...
                Services
     Archivage-Photos
                                                           Source
        Java EE Modules
                                       package entity;
        Configuration Files
        Server Resources
                                       import java.io.Serializable;
     Archivage-Photos-ejb
                                 10
                                       import javax.persistence.Entity;
       Source Packages
                                        import javax.persistence.GeneratedValue;
                                 11
        entity
                                 12
                                       import javax.persistence.GenerationType;
          Photo.java
                                       import javax.persistence.Id;
                                 13
        Libraries
                                 14
        Enterprise Beans
                                 15
        Configuration Files
                                 16
        Server Resources
                                         * @author admin
                                 17
Photo - Navigator 88
                                 18
Members
               <empty>
                                 19
                                       @Entity

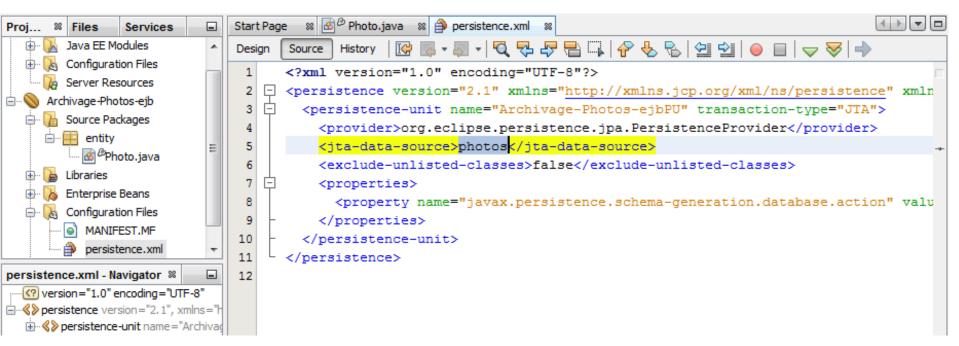
☐ → ↑ Photo :: Serializable

                                 20
                                       public class Photo implements Serializable {
     equals(Object object): boolean
                                            private static final long serialVersionUID = 1L;
     getId(): String
                                            @Id
     hashCode(): int
                                 23
                                            @GeneratedValue(strategy = GenerationType.AUTO)
        setId(String id)
                                                                         -111
```

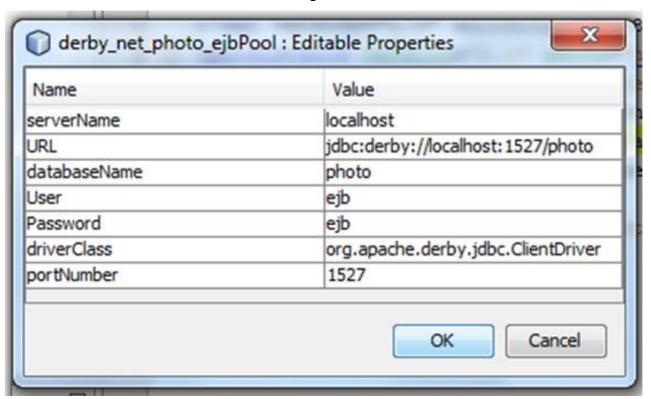
Photo.java

- Remarquer que Netbeans propose systématiquement que chaque entité implémente l'interface Serializable.
- Choix est parfaitement judicieux si on désire que cette information se propage sur le réseau afin que le client puisse en bénéficier.





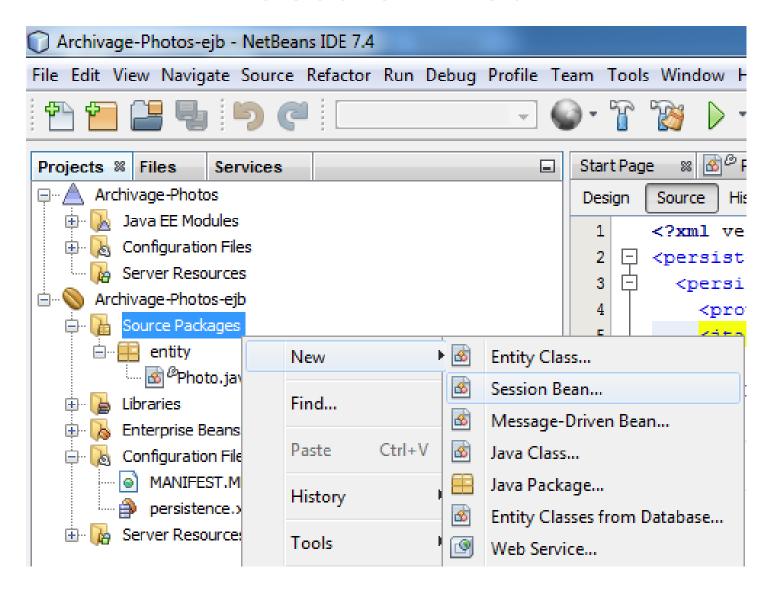
 L'unité de persistance Archivage-Photos-ejbPU fait référence au nom JNDI photos qui lui même fait référence au pool de connexion derby_net_photos_ejbPool (nom par défaut proposé par Netbeans).

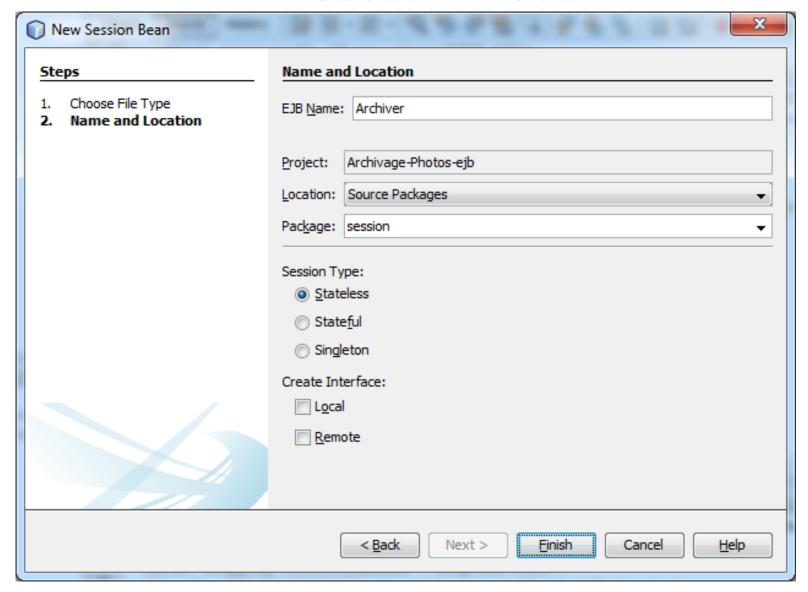


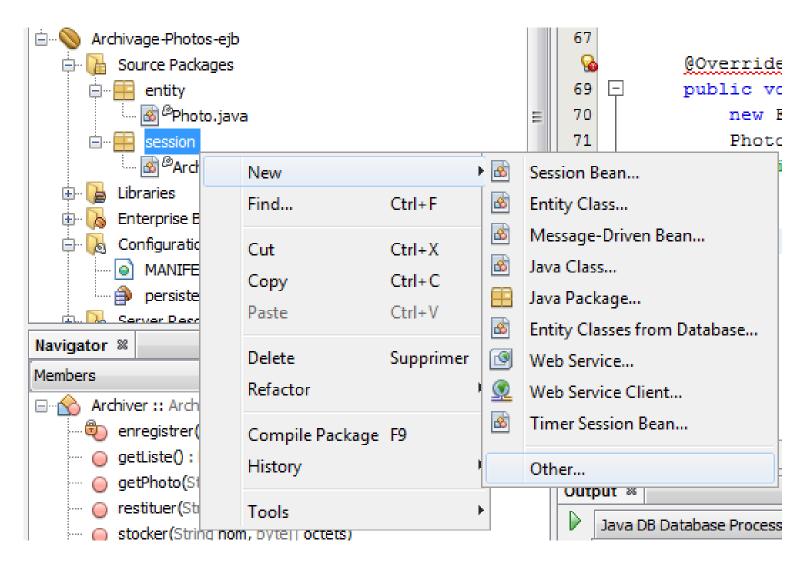
derby_net_photos_ejbPool possède toutes les caractéristiques essentielles de la base de données : serveur utilisé, driver associé, numéro de service, nom de la base, nom d'utilisateur,

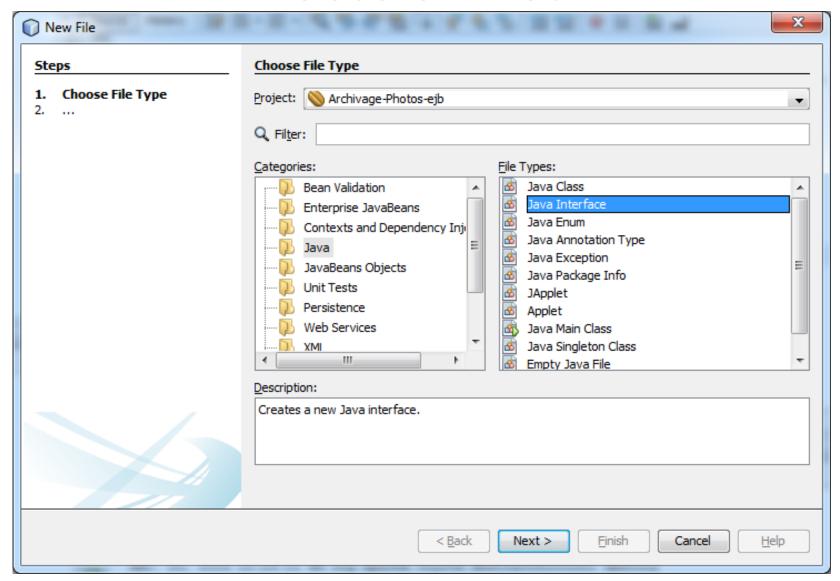
Création du bean session Archiver

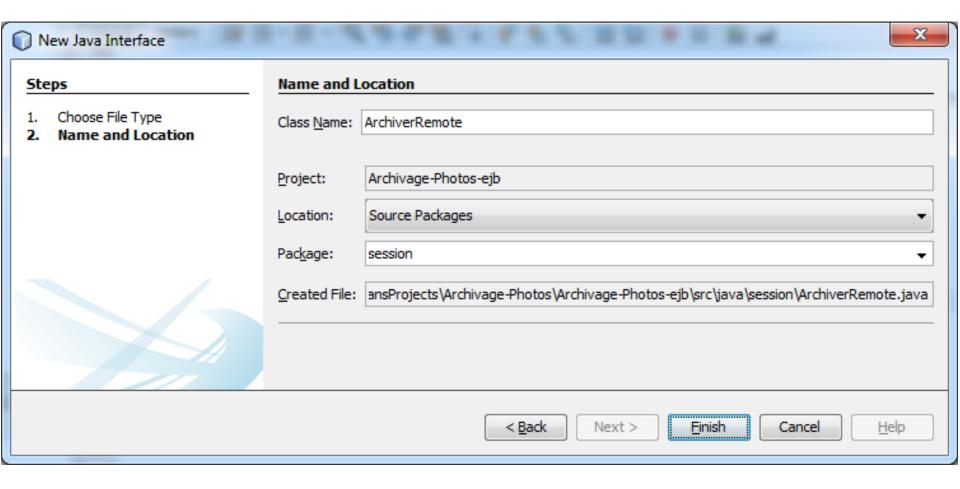
- Il va s'occuper de tout le traitement nécessaire côté serveur :
 - enregistrement physique des différentes photos sur le disque dur du serveur
 - gestion complète de la persistance des entités relatives aux informations supplémentaires des photos archivées.



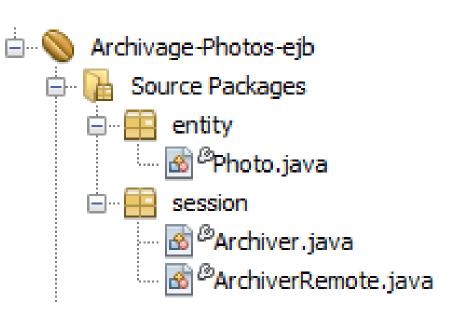






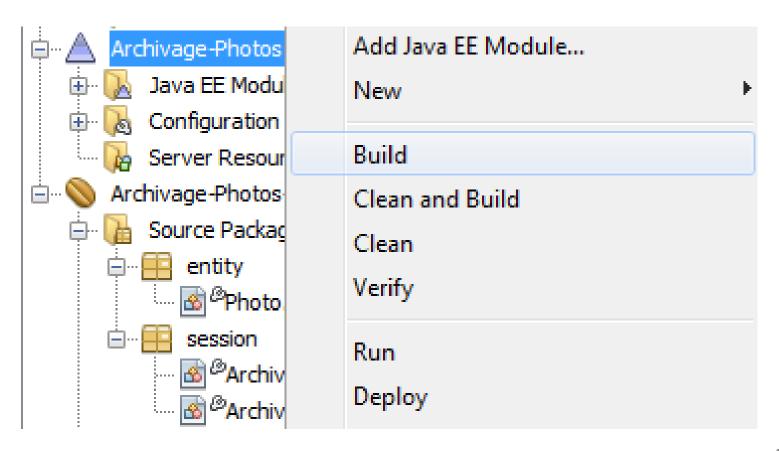


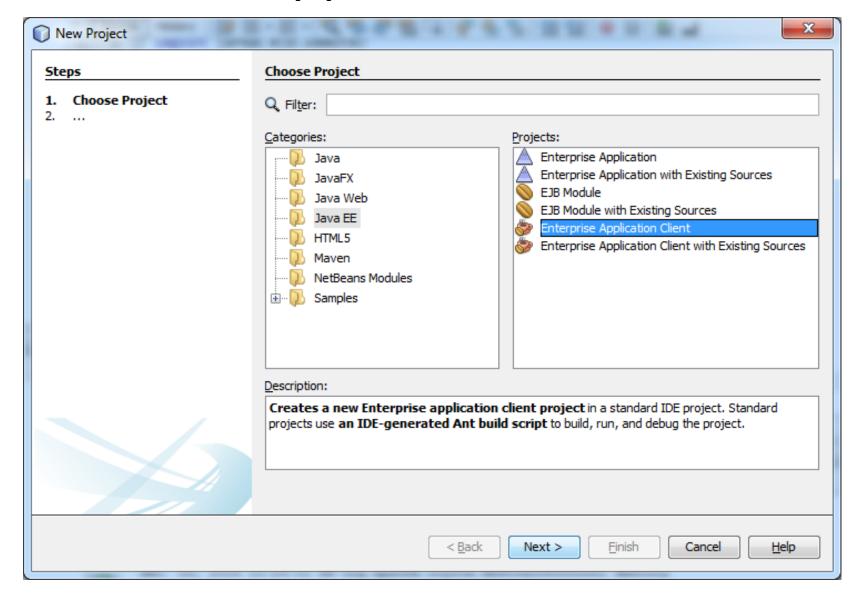
- Voir les sources :
 - Archiver.java
 - ArchiverRemote.java
- créer le dossierD:\Archivage

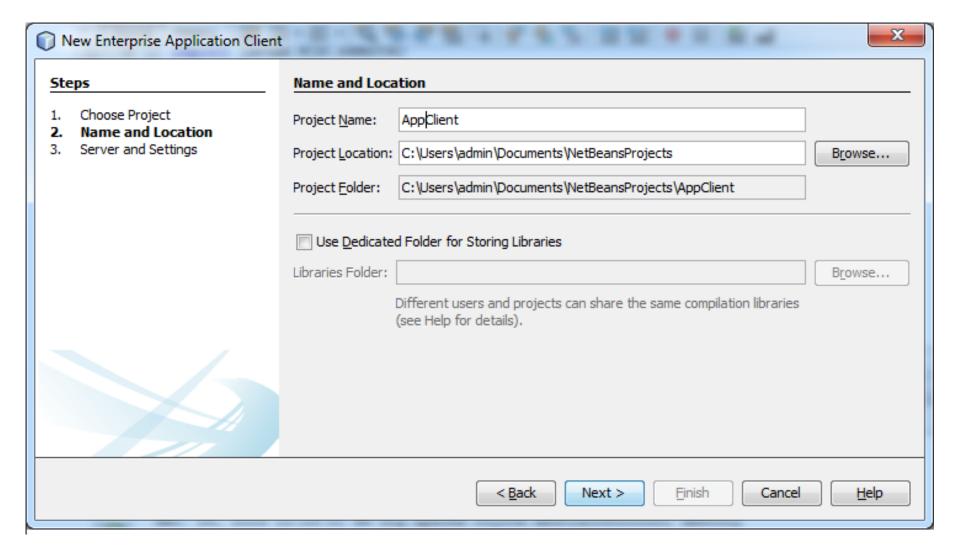


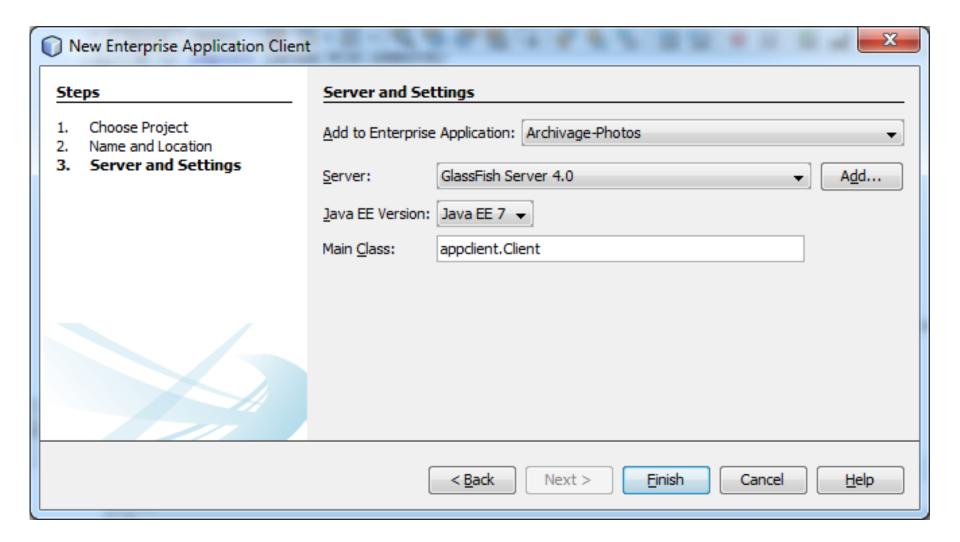
Build

Faire un premier build

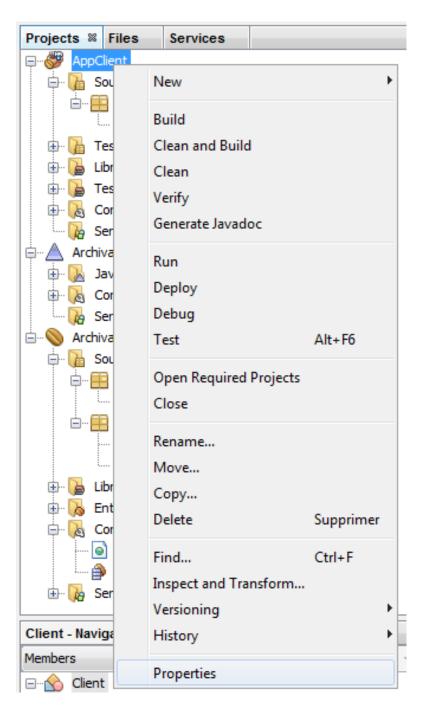


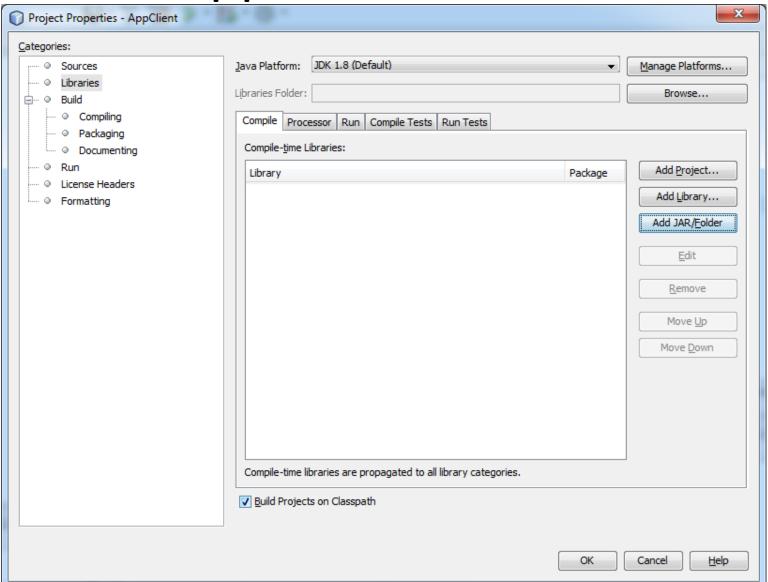


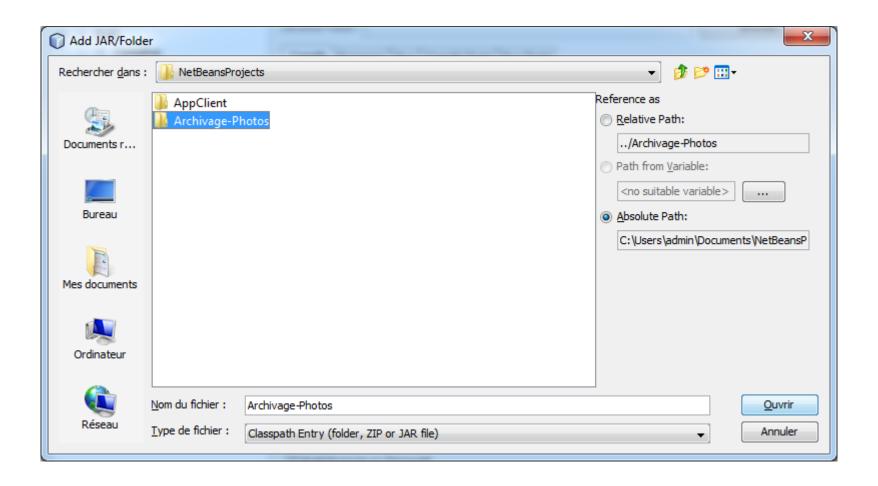


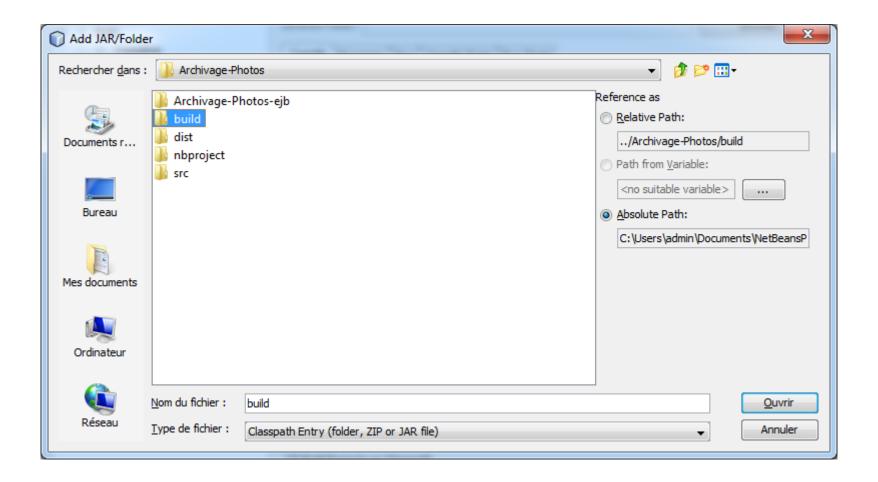


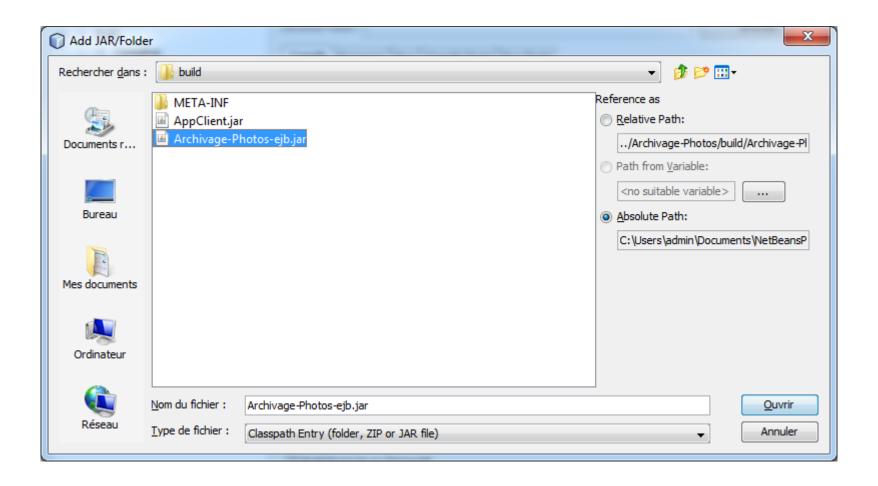
```
🗝 🐼 Photo.java 🗯 persistence.xml 🗯 🐼 Archiver.java 🗯 🔞 ArchiverRemote.java 🗯 🔞 Client.java
Projects % Files
                 Services
     AppClient
        Source Packages
                                    1 -
     i- appdient
                                    2
                                           * To change this license header, choose License Headers in Project Properties.
                                           * To change this template file, choose Tools | Templates
        Test Packages
                                           * and open the template in the editor.
                                    5
        Test Libraries
                                    6
        Configuration Files
                                          package appclient;
        Server Resources
                                    8
     Archivage-Photos
                                    9
        Java EE Modules
                                   10
        Configuration Files
                                           * @author admin
        Server Resources
                                   12
     Archivage-Photos-ejb
                                   13
                                          public class Client {
        Source Packages
                                   14
        entity
                                   15
           ® <sup>©</sup>Photo.java
                                   16
                                                * @param args the command line arguments
                                   17
           18
                                               public static void main(String[] args) {
                                                       TODO code application logic here
```

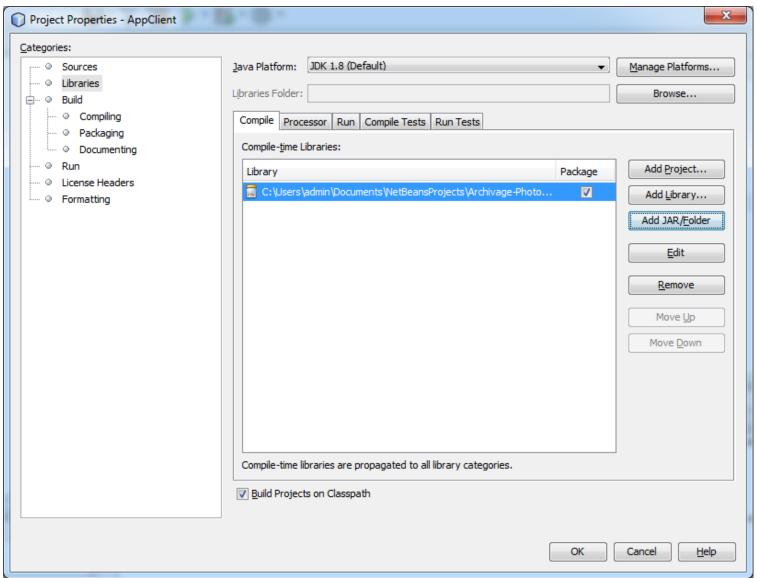




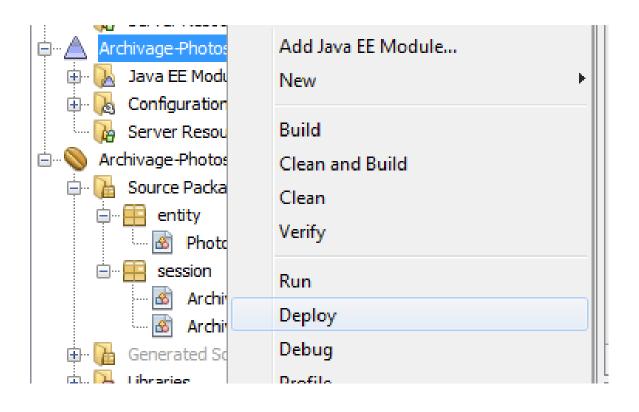


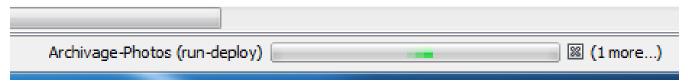






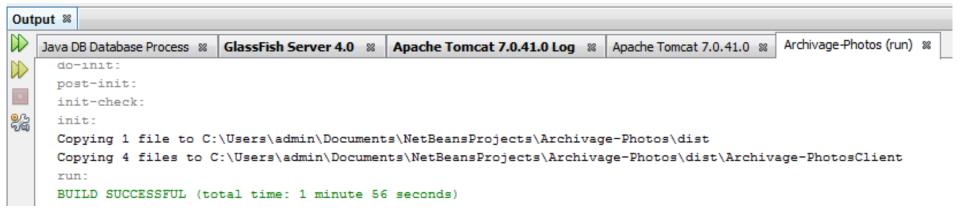
Déploiement



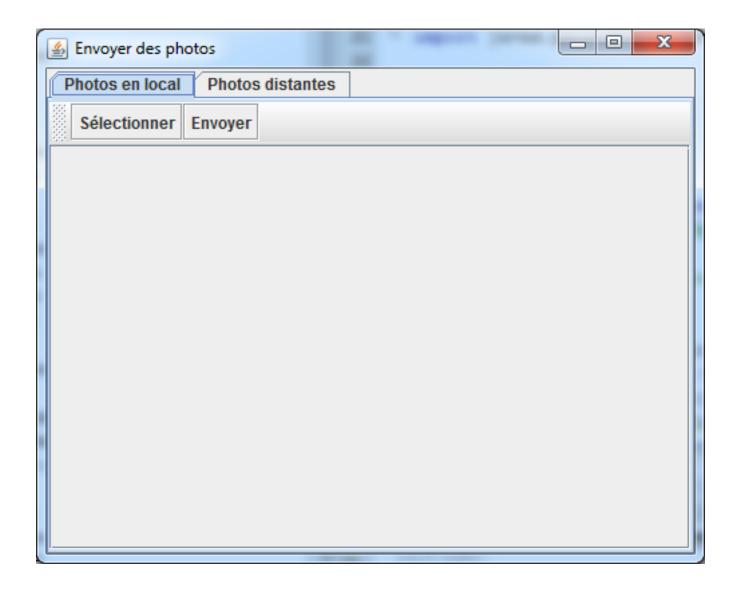


Exécution

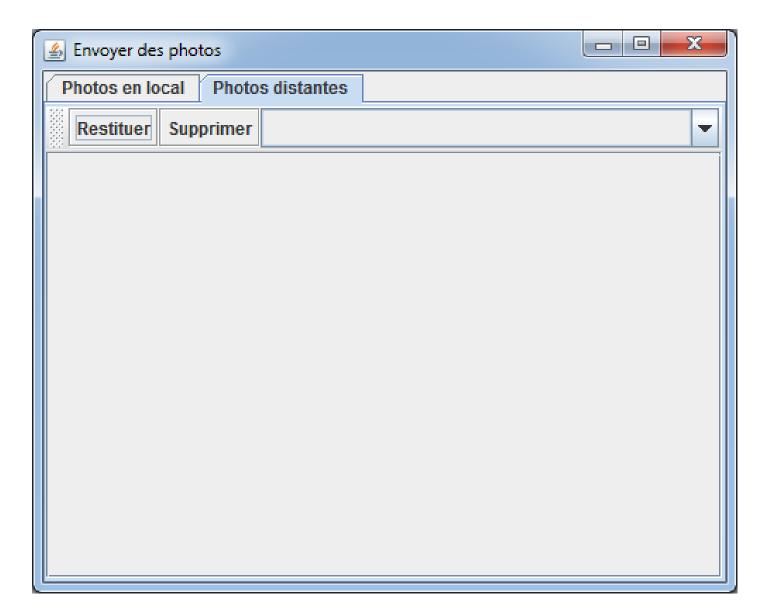




Exécution



Exécution



Consultation BD

