

# TP JDBC

Préparé par  
M.G. BELKASMI

# Téléchargement

- Pour télécharger Oracle Express Edition, aller sur la page de [téléchargements](#)
- Accepter la licence et choisir le fichier d'install (32 ou 64 bits)

## **Oracle Database Express Edition 11g Release 2**

**June 4, 2014**

You must accept the OTN License Agreement for Oracle Database Express Edition 11g Release 2 to download this software.

☐ Accept License Agreement | ☐ Decline License Agreement

↓ Oracle Database Express Edition 11g Release 2 for Windows x64

- Unzip the download and run the DISK1/setup.exe

↓ Oracle Database Express Edition 11g Release 2 for Windows x32

- Unzip the download and run the DISK1/setup.exe

↓ Oracle Database Express Edition 11g Release 2 for Linux x64

-Unzip the download and the RPM file can be installed as normal

# Téléchargement

- Des outils intéressants sont proposés dessous

**You may also be interested in the following downloads:**

 [Oracle SQL Developer](#)

 [Oracle SQL Developer Data Modeler](#)

 [Oracle Application Express](#)

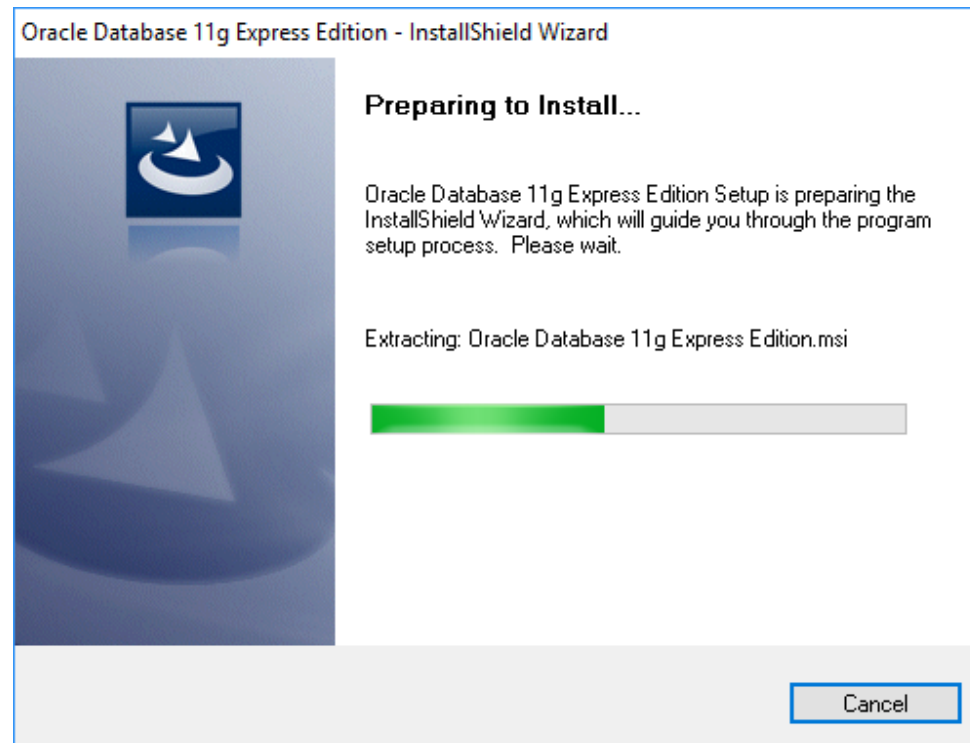
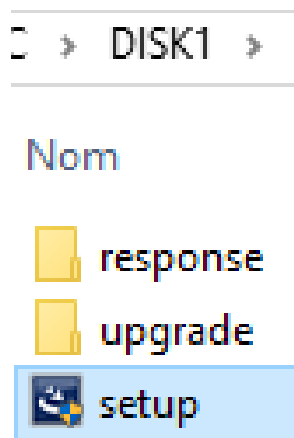
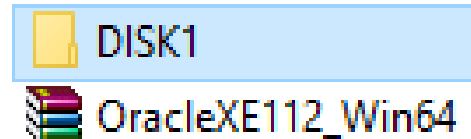
 [JDeveloper for Java Developers](#)

 [Oracle Developer Tools for Visual Studio .NET](#)

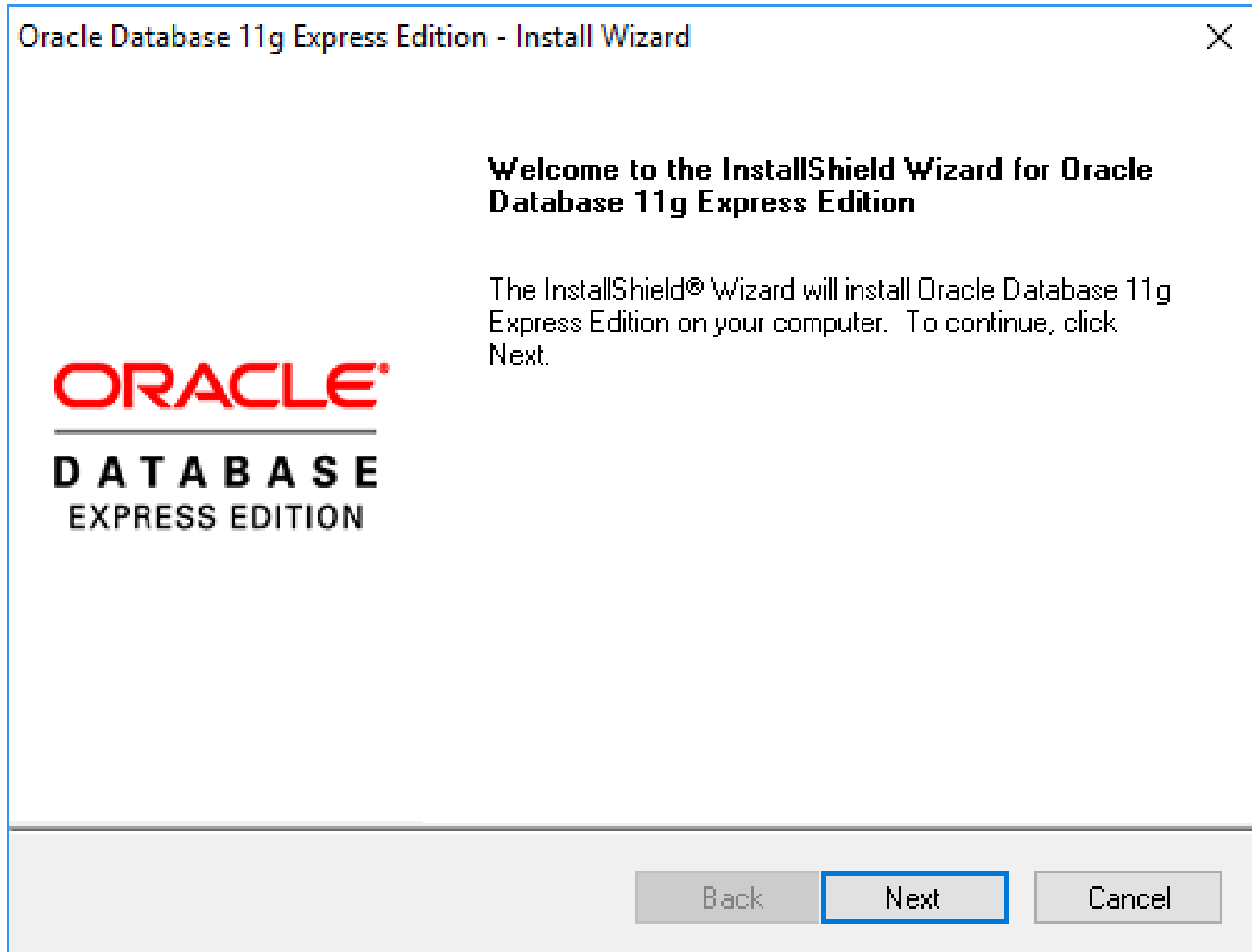
 [Zend Server](#)

# Installation

- Décompresser le fichiers zip
- Lancer setup (en tant qu'admin ou désactiver la vérification des comptes)



# Installation



# Installation

Oracle Database 11g Express Edition - Install Wizard

**License Agreement**

Please read the following license agreement carefully.

**ORACLE**  
DATABASE  
EXPRESS EDITION

**Oracle Technology Network Developer License Terms  
for Oracle Database Express Edition**

**Export Controls**  
Export laws and regulations of the United States and any other relevant local export laws and regulations apply to the programs. You agree that such export control laws govern your use of the Program (including technical data) and any services deliverables provided under this agreement, and you agree

☒ I accept the terms in the license agreement

☐ I do not accept the terms in the license agreement

Print

InstallShield

Back Next Cancel

# Installation

Oracle Database 11g Express Edition - Install Wizard

**Choose Destination Location**

Select folder where setup will install files.

Setup will install Oracle Database 11g Express Edition in the following folder.

To install to this folder, click Next. To install to a different folder, click Browse and select another folder.

<input checked="" type="checkbox"/>	Oracle Database 11g Express Edition	631124 K
-------------------------------------	-------------------------------------	----------

Destination Folder  
C:\oraclexe\ Browse...

Space Required on C: 631124 K

Space Available on C: 4681312 K

InstallShield

Back Next Cancel

# Installation

Oracle Database 11g Express Edition - Install Wizard

**Specify Database Passwords**

ORACLE  
DATABASE  
EXPRESS EDITION

Enter and confirm passwords for the database. This password will be used for both the SYS and the SYSTEM database accounts.

Enter Password

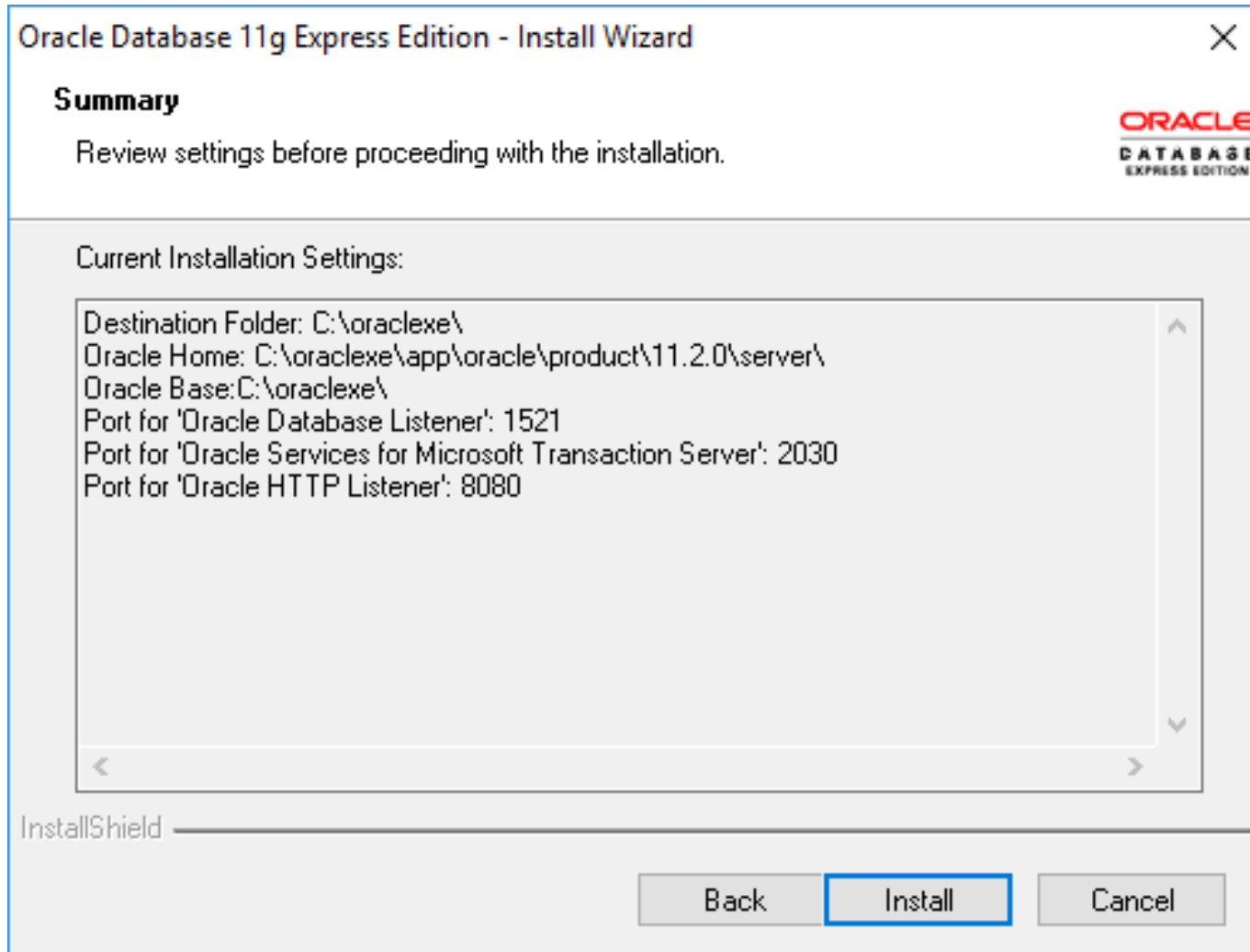
Confirm Password

InstallShield

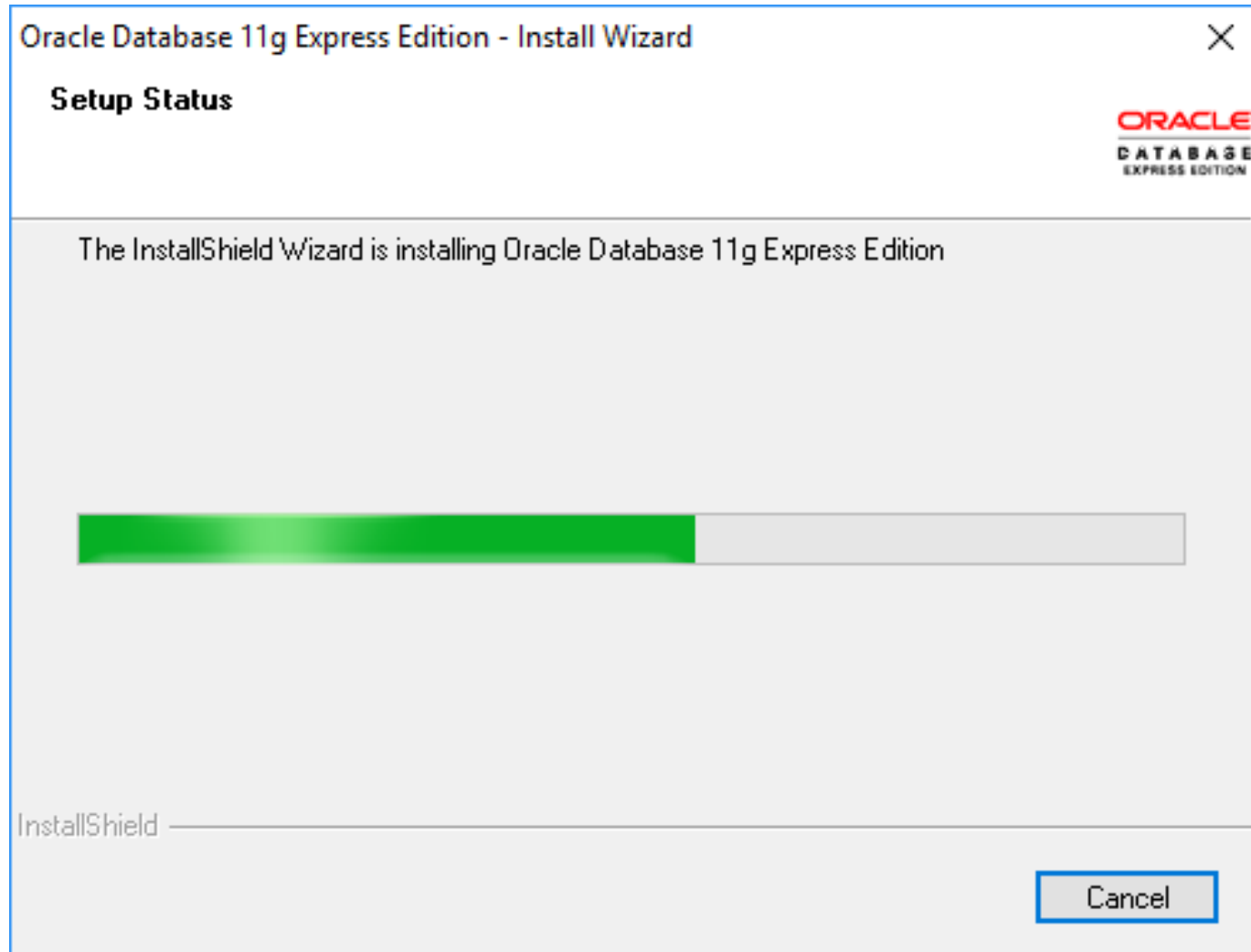
Back Next Cancel



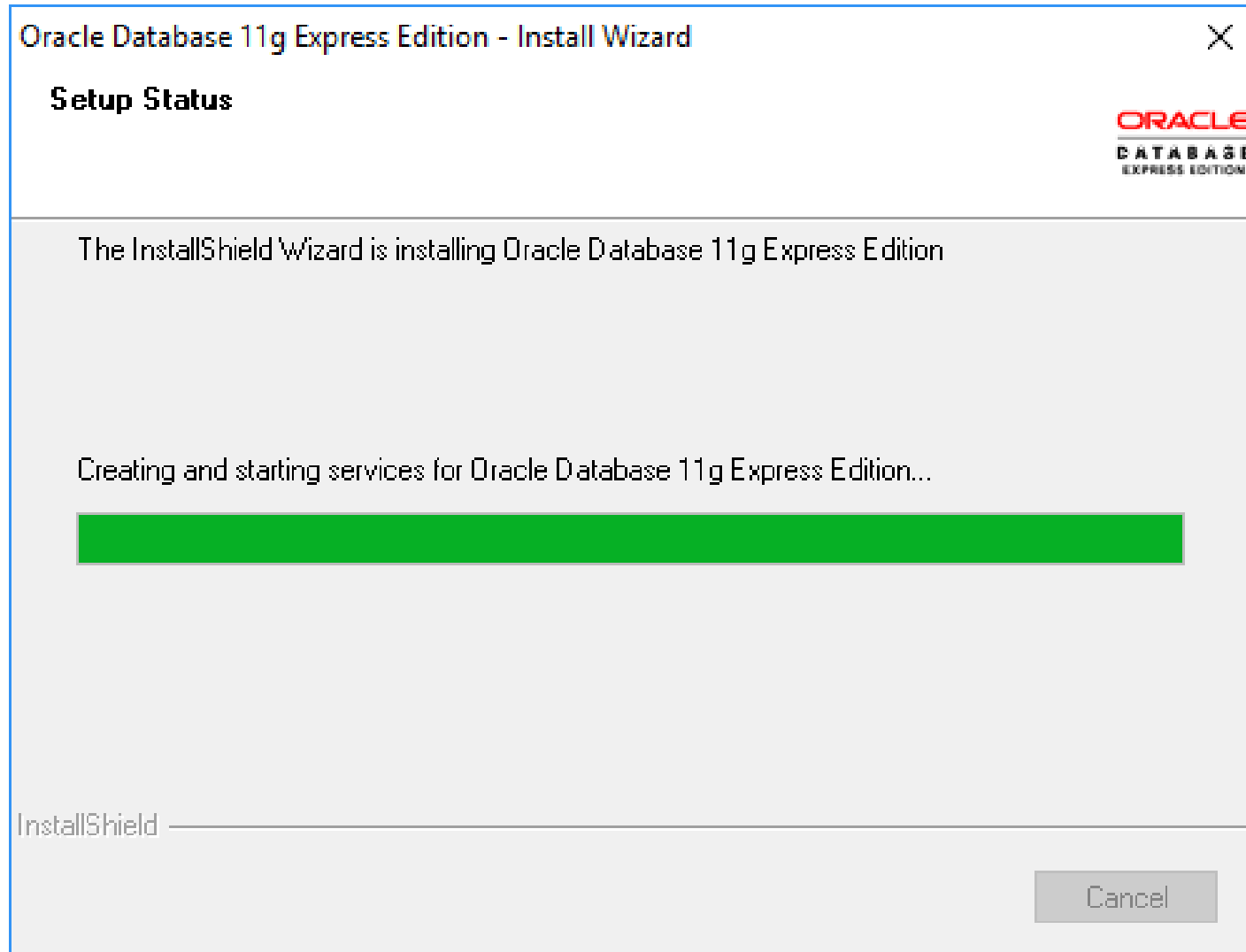
# Installation



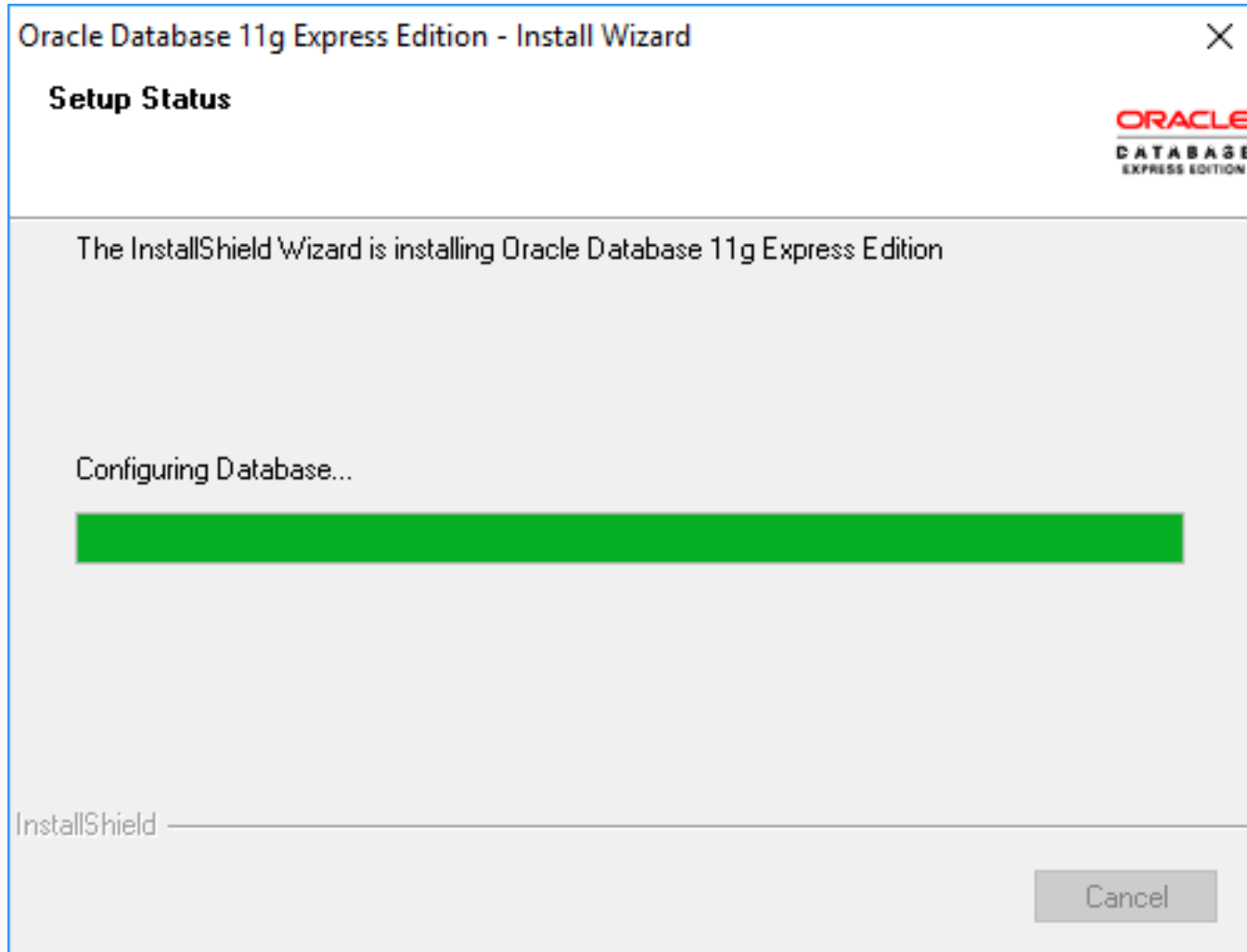
# Installation



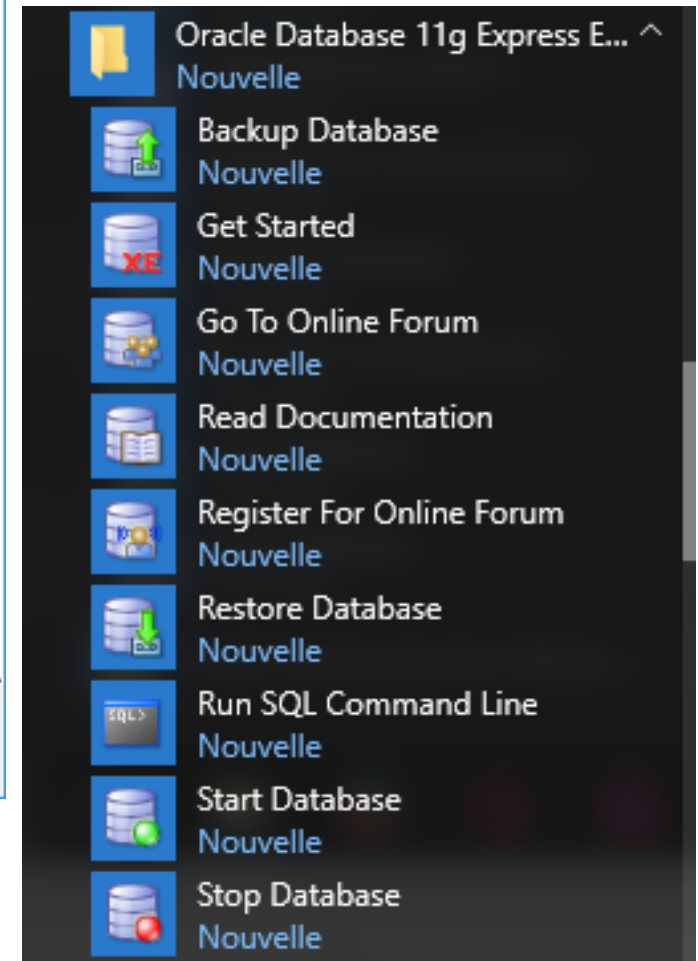
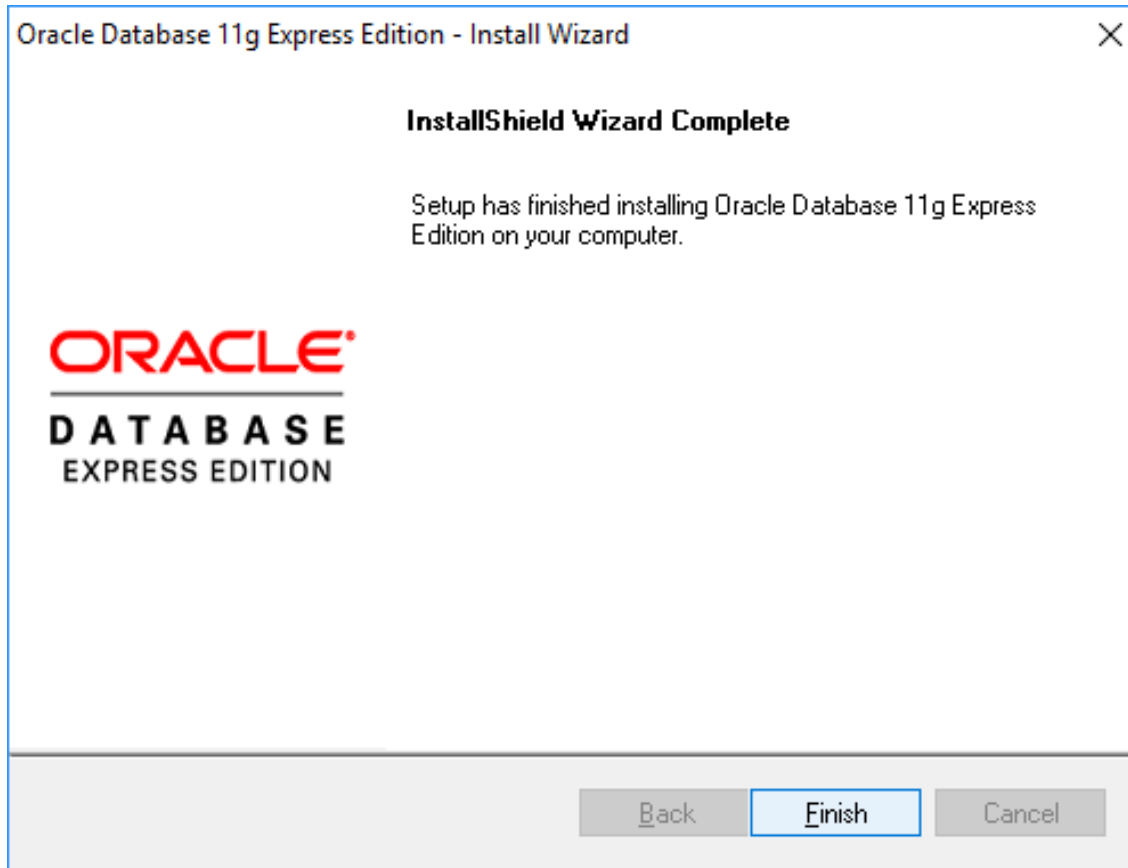
# Installation



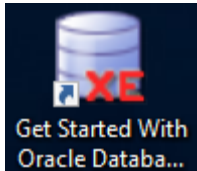
# Installation



# Installation



# Administration



## ORACLE® Oracle Database XE 11.2

[Home](#)[Storage](#)[Sessions](#)[Parameters](#)[Application Express](#)

### Storage

View currently used storage.

[Storage >](#)

### Sessions

View current database sessions.

[Sessions >](#)

### Parameters

View initialization parameters.

[Parameters >](#)

### Application Express

Get started with Oracle Application Express.

[Application Express >](#)

### Links

- > [Online Help](#)
- > [Learning Library](#)
- > [Oracle Technology Network](#)
- > [Oracle SQL Developer](#)
- > [Oracle Express Edition](#)
- > [Oracle Application Express](#)
- > [Oracle JDeveloper 11g](#)
- > [Pre-built Developer VMs](#)

### News

### OTN News

# Administration

**Login**

Username

Password

Login

Login as a database user which has been granted the DBA database role (for example, SYSTEM).

## ORACLE® Oracle Database XE 11.2

Home

Storage

Sessions

Parameters

Application Express

Home

Storage

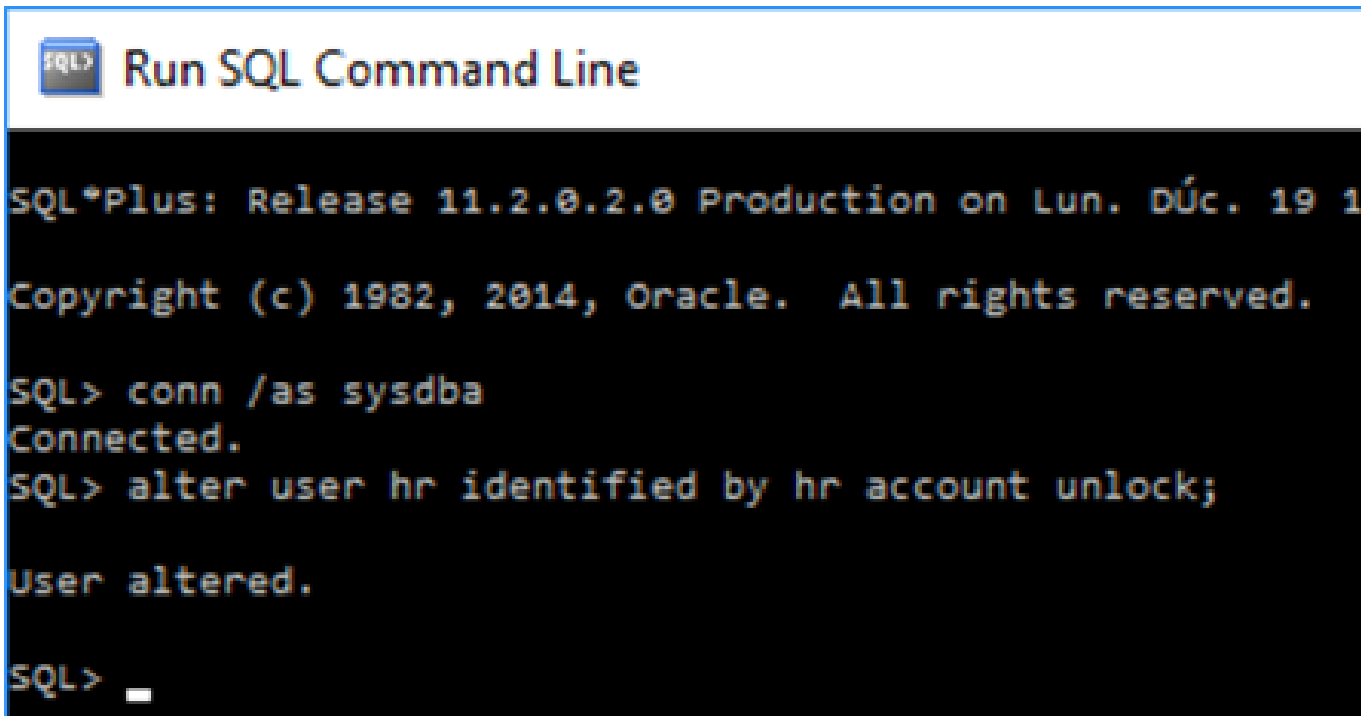
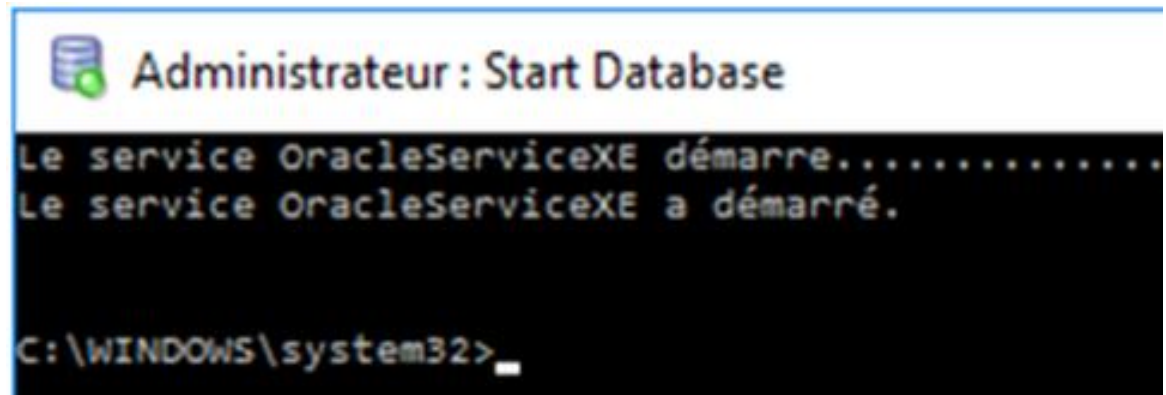
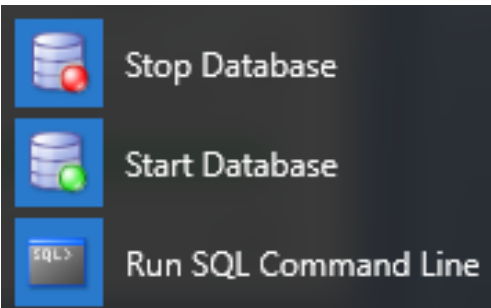
Q-

Go

Actions ▼

Tablespace	Free Space (MB)	Used Space (MB) ▼	Percent Used	Maximum (MB)
<u>SYSAUX</u>	40	620	<div></div>	32,768
<u>SYSTEM</u>	6	354	<div></div>	600
<u>UNDOTBS1</u>	363	17	<div></div>	500
<u>USERS</u>	97	3	<div></div>	11,264
<u>TEMP</u>	18	2	<div></div>	32,768

# SQL





# SQL Developer

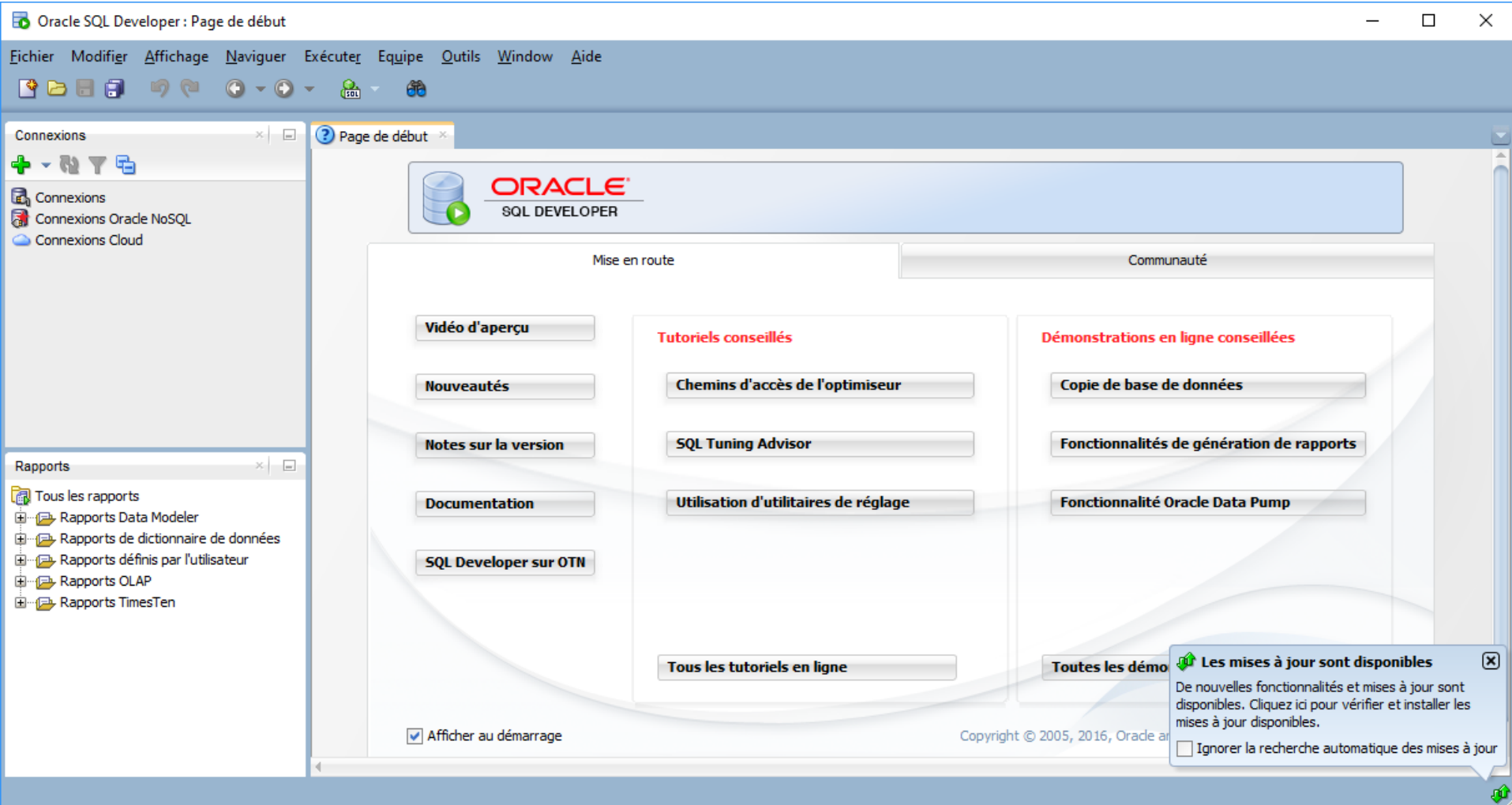
sqldeveloper

sqldeveloper-4.1.5.21.78-no-jre

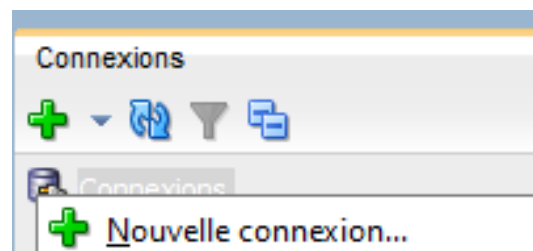
sqldeveloper



# SQL Developer



# SQL Developer



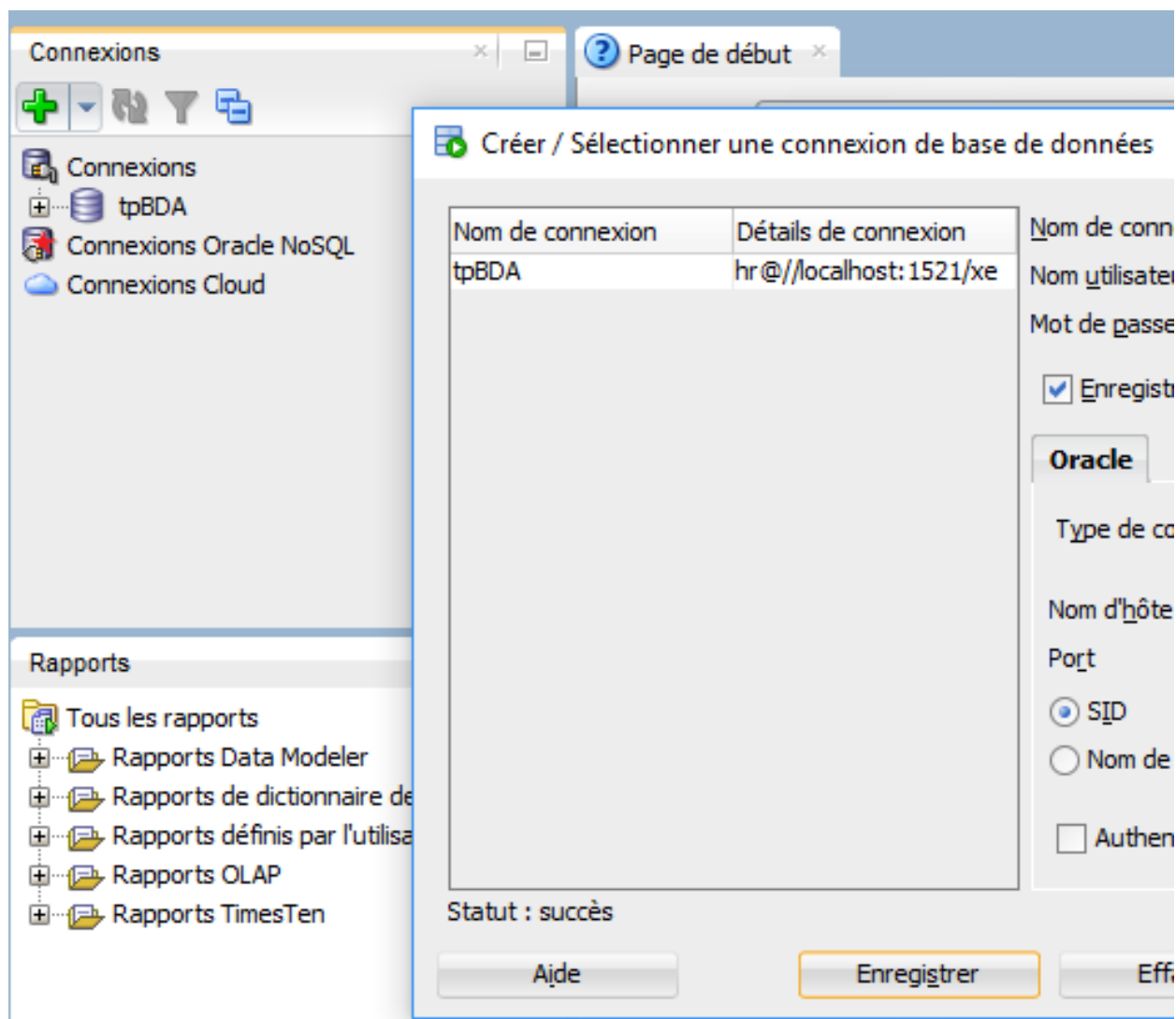
Créer / Sélectionner une connexion de base de données

Nom de connexion	Détails de connexion
	<p>Nom de connexion: tpBDA</p> <p>Nom utilisateur: hr</p> <p>Mot de passe: ..</p> <p><input checked="" type="checkbox"/> Enregistrer le mot de passe <input type="checkbox"/> Couleur de connexion</p> <p><b>Oracle</b></p> <p>Type de connexion: De base Rôle: par défaut</p> <p>Nom d'hôte: localhost</p> <p>Port: 1521</p> <p><input checked="" type="radio"/> SID: xe</p> <p><input type="radio"/> Nom de service</p> <p><input type="checkbox"/> Authentification OS <input type="checkbox"/> Authentification Kerberos <input type="button" value="Avancé..."/></p>

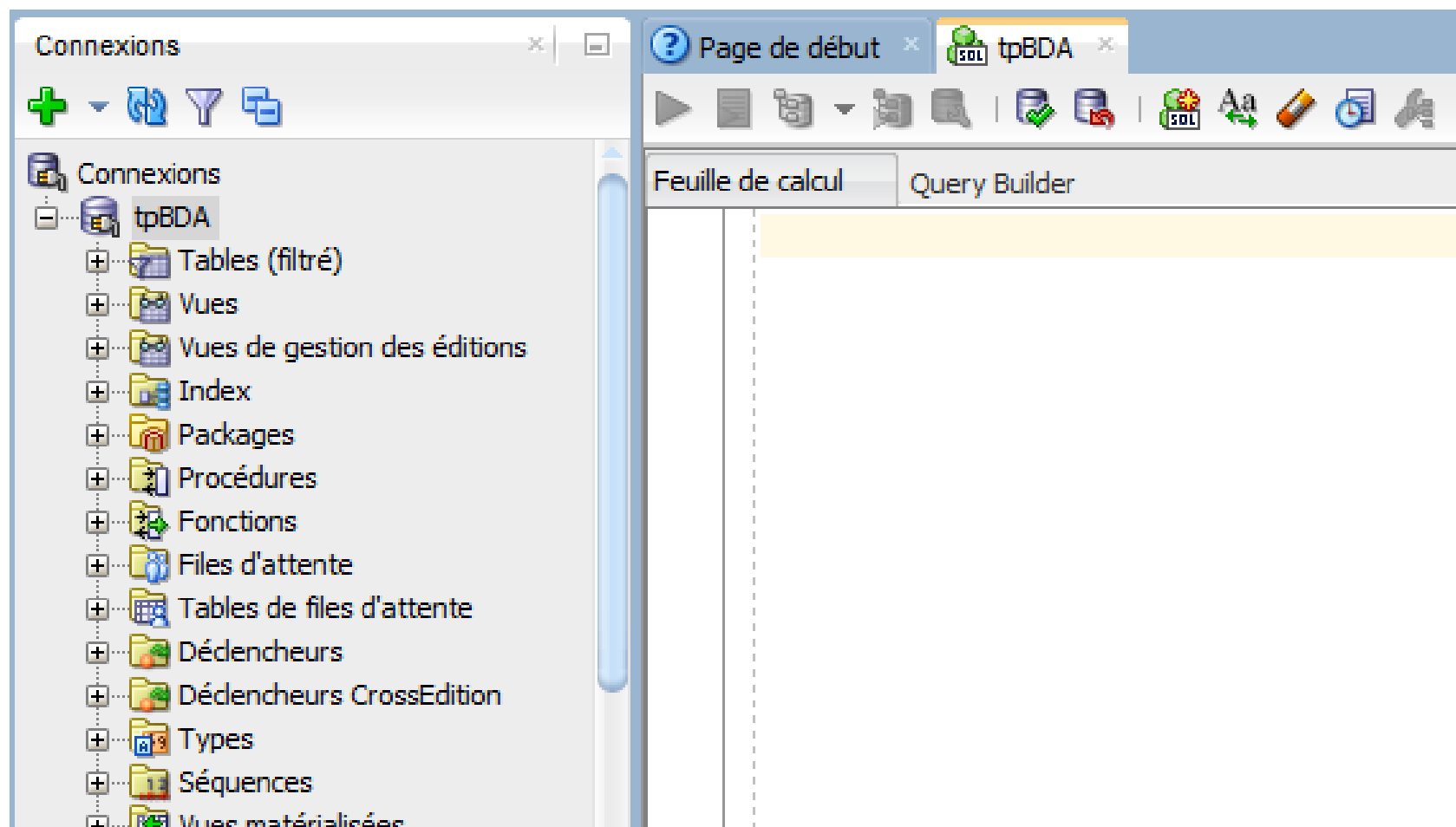
Statut : succès

Aide Enregistrer Effacer **Tester** Connexion Annuler

# SQL Developer



# SQL Developer



# SQL Developer

This screenshot shows the SQL Developer interface with the 'DEPARTMENTS' table selected in the 'Connexions' tree. The 'Page de début' tab is active, displaying the 'Colonnes' (Columns) view. The table structure is as follows:

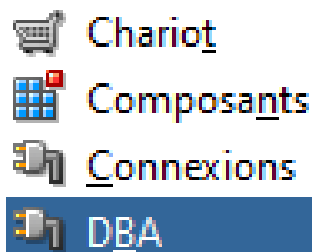
	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA
1	DEPARTMENT_ID	NUMBER(4,0)	No	(nul
2	DEPARTMENT_NAME	VARCHAR2(30 BYTE)	No	(nul
3	MANAGER_ID	NUMBER(6,0)	Yes	(nul
4	LOCATION_ID	NUMBER(4,0)	Yes	(nul

This screenshot shows the same SQL Developer interface, but with the 'Données' (Data) view selected. It displays the data for the 'DEPARTMENTS' table:

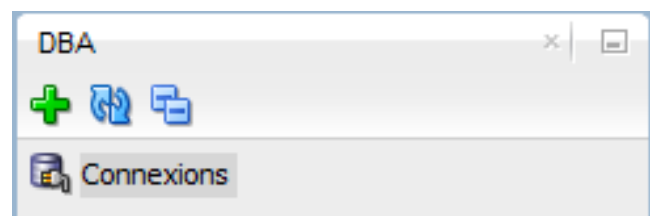
	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
1	10	Administration	200	1700
2	20	Marketing	201	1800
3	30	Purchasing	114	1700
4	40	Human Resources	203	2400

# SQL Developer

Affichage



Data Miner



Nom de connexion: dba

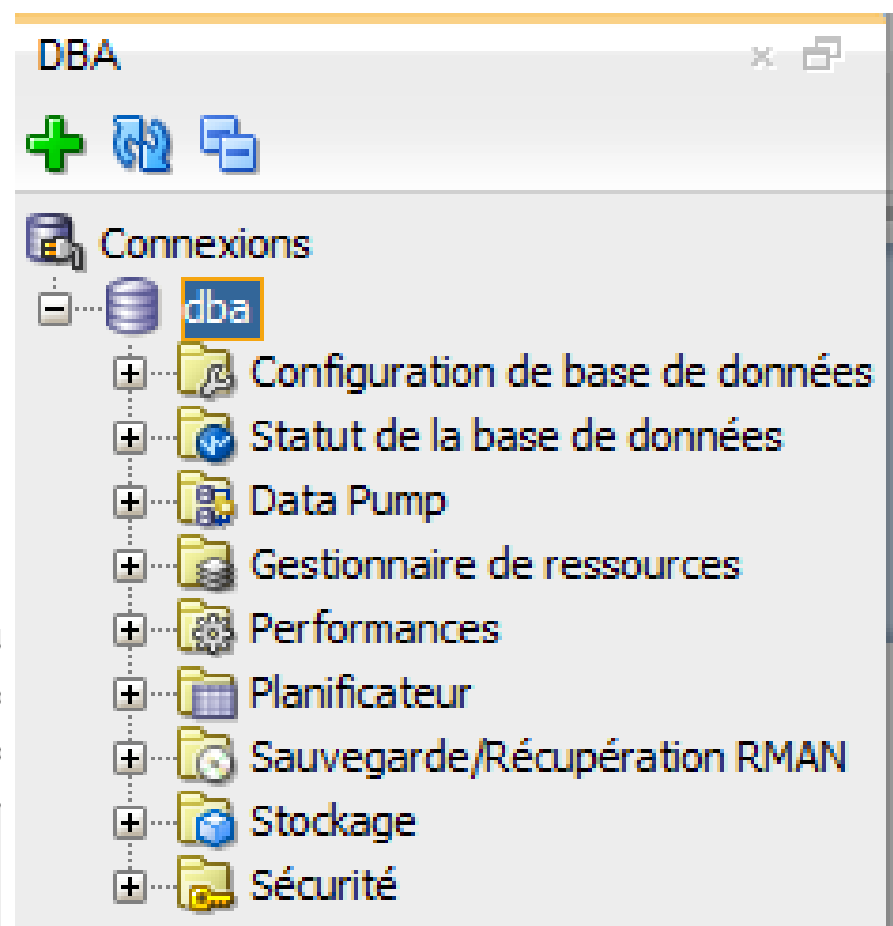
Nom utilisateur: sys

Mot de passe: .....

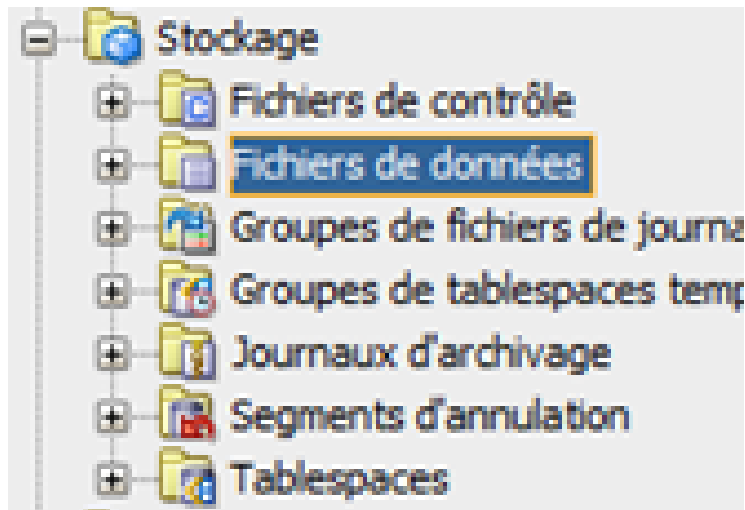
☐ Enregistrer le mot de passe     Couleur de connexion

**Oracle**

Type de connexion: De base    Rôle: SYSDBA



# SQL Developer



Page de début x tpBDA x Fichiers de données x								
Fichiers de données Erreurs								
Actions...								
File Name	Tablespace	Status	Size (MB)	Used (MB)	Used (Proportion)	Used (%)	Auto Extend	
1 C:\ORACLE\APP\ORACLE\ORADATA\XE\SYSAUX.DBF	SYSAUX	ONLINE	660.000	619.813	<div></div>	93.91	YES	
2 C:\ORACLE\APP\ORACLE\ORADATA\XE\SYSTEM.DBF	SYSTEM	SYSTEM	360.000	354.313	<div></div>	98.42	YES	
3 C:\ORACLE\APP\ORACLE\ORADATA\XE\TEMP.DBF	TEMP	ONLINE	20.000	0.000	<div></div>	0	YES	
4 C:\ORACLE\APP\ORACLE\ORADATA\XE\UNDOTBS1.DBF	UNDOTBS1	ONLINE	380.000	9.063	<div></div>	2.38	YES	
5 C:\ORACLE\APP\ORACLE\ORADATA\XE\USERS.DBF	USERS	ONLINE	100.000	2.563	<div></div>	2.56	YES	



# Exercice

- le fichier source

`JDBCThinGetDeptScott.java`

contient un programme jdbc censé tourner avec oracle 8i.

- Faire le nécessaire pour que ce programme tourne avec Oracle 11g XE
  - Utiliser le schéma HR

# Exercice

- Faire le nécessaire cette fois pour pouvoir prendre en ligne de commande un ID de département et l'utiliser comme paramètre de la requête
- Proposer deux solutions :
  - a) une avec Statement
  - b) l'autre avec PreparedStatement

# Exercice

- Créer une procédure PL/SQL nommée `ADD_DEPT` qui permet d'insérer un nouveau département dans la table des départements
- Tester cette procédure
- Créer un programme JDBC pour exploiter appeler la fonction procédure `ADD_DEPT`

# Exercice

- Créer une fonction PL/SQL nommée SOM\_SAL qui calcul la somme des salaires d'un département dont l'id est passé en paramètre
- Tester cette fonction
- Créer un programme JDBC pour appeler la fonction SOM\_SAL

# Exercice

- Ecrire un programme qui liste le 1<sup>er</sup> et le 10<sup>ème</sup> plus ancien employé d'un département dont l'id est passé en argument en ligne de commandes
- Ecrire un programme qui crée et alimente une table de multiplication `tab_mult(x,y,x*y)`, pour x et y allant de 0 à 10, et ce en utilisant un batch