



TEMENOS™

# TAFJ-Oracle 12cR1 Install

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2/4/2015  
Temenos



## Amendment History:

Revision	Date Amended	Name	Description
11	1 <sup>st</sup> April 2011	TAFJ team	Initial version
12	7 <sup>st</sup> February 2012	H. Aubert	R12GA review
13	16 <sup>th</sup> January 2013	R. Vincent	R13GA review
14	10 <sup>th</sup> September 2013	H. Aubert	R14GA review
15	20 <sup>th</sup> February 2014	R. Vincent	R14GA review
15	15th April 2014	H. Aubert	R14GA review
16	4 <sup>th</sup> Feb 2015	G.Gowriman i	Altered the Database creation steps

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## Errata and Comments

If you have any comments regarding this manual or wish to report any errors in the documentation, please document them and send them to the address below:

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## Introduction

This document will show all steps to configure a database, ready to be used by T24 with TAFJ. At this time TAFJ only supports Oracles Version 11 and up.

This procedure is for Windows® platform. For all other OS please refer to the official product documentation.

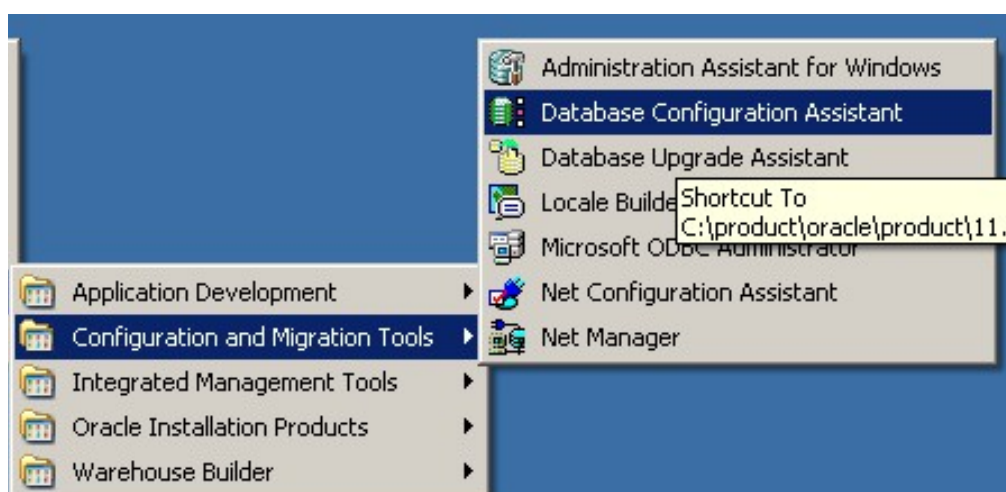
## Install Oracle

Most steps aren't shown. Please follow the official Oracle document setup.

For 12c, see [http://docs.oracle.com/cd/E16655\\_01/nav/portal\\_11.htm](http://docs.oracle.com/cd/E16655_01/nav/portal_11.htm)

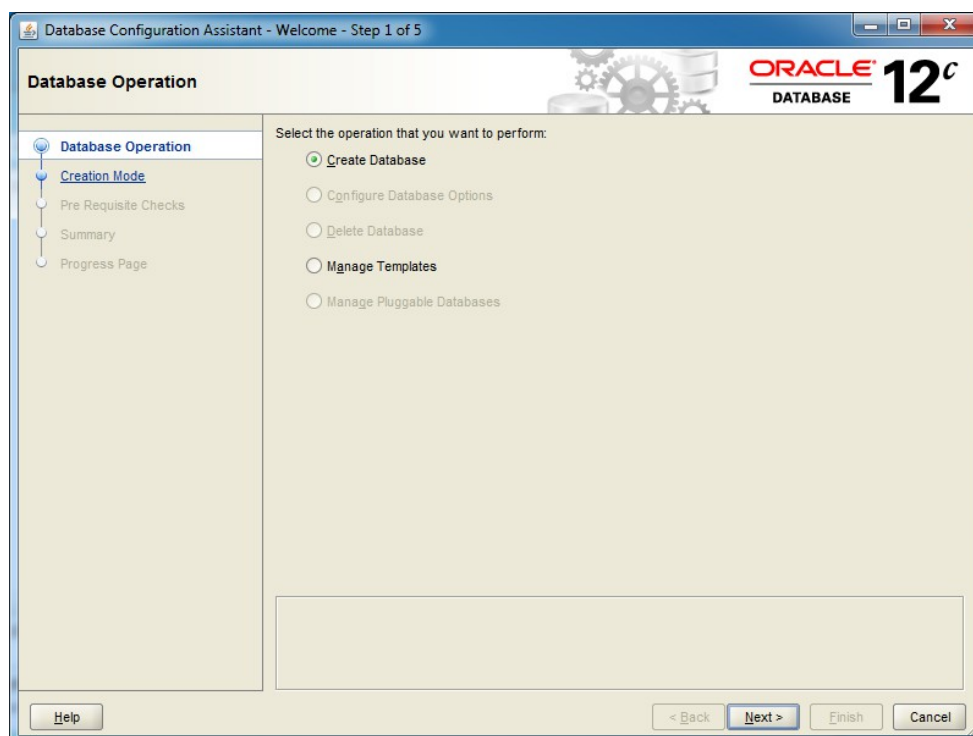
## Create a Database Instance

➔ Launch *the Database configuration assistant*.



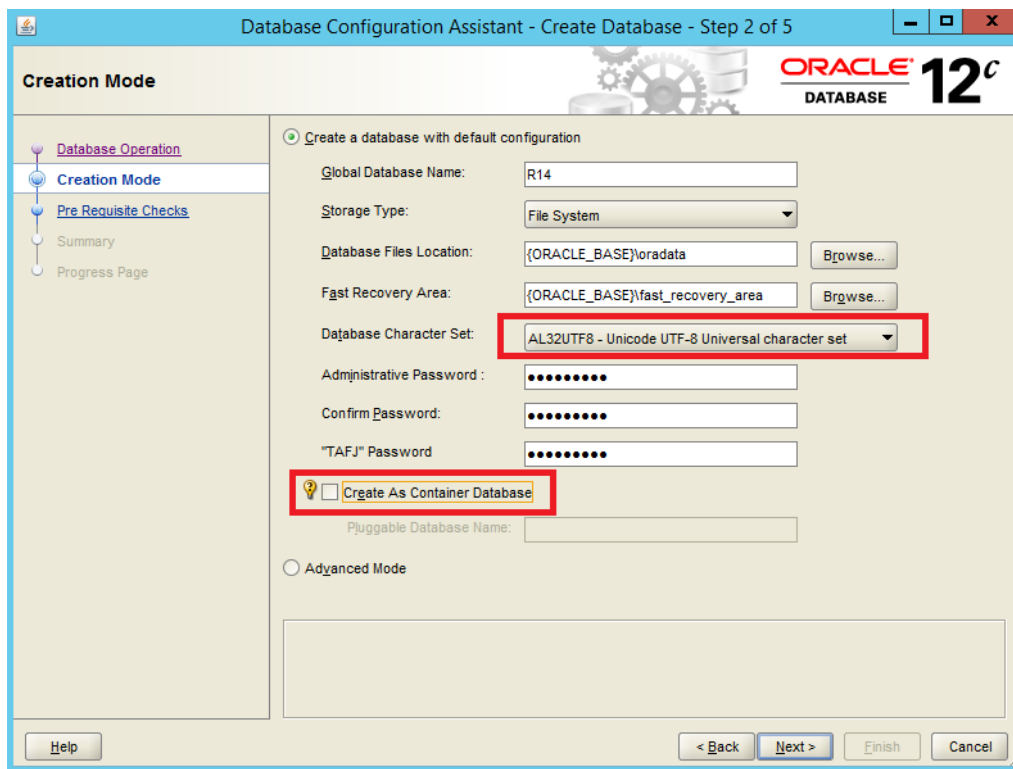
Or

➔ Execute `%ORACLE_HOME%\BIN\dbca.bat`

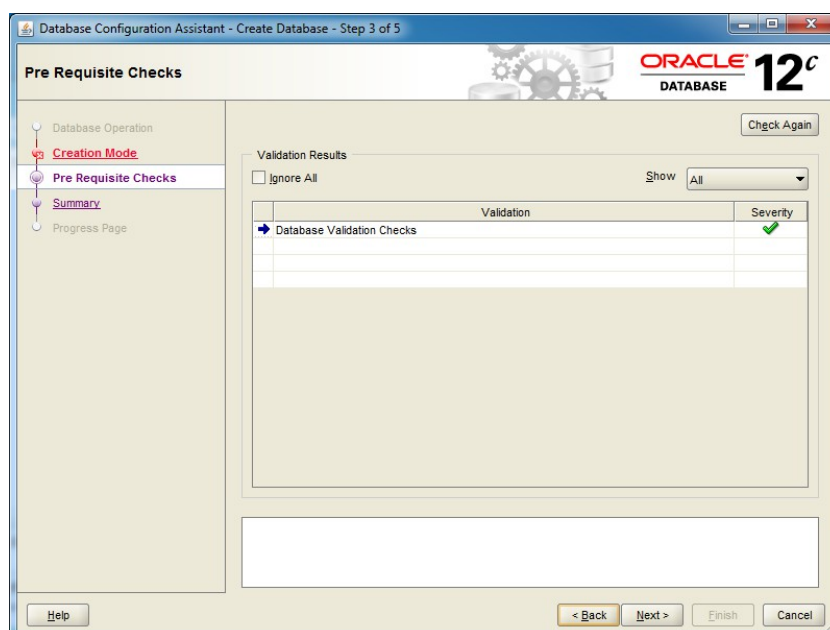


➔ Select **Create a Database...**

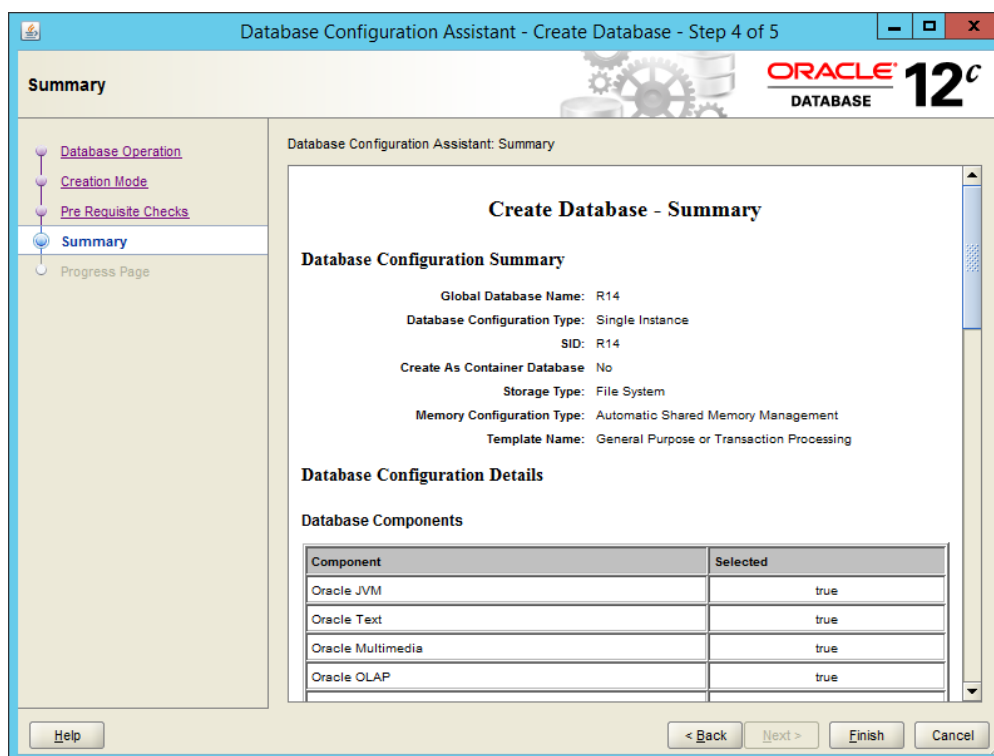
➔ Press **Next...**



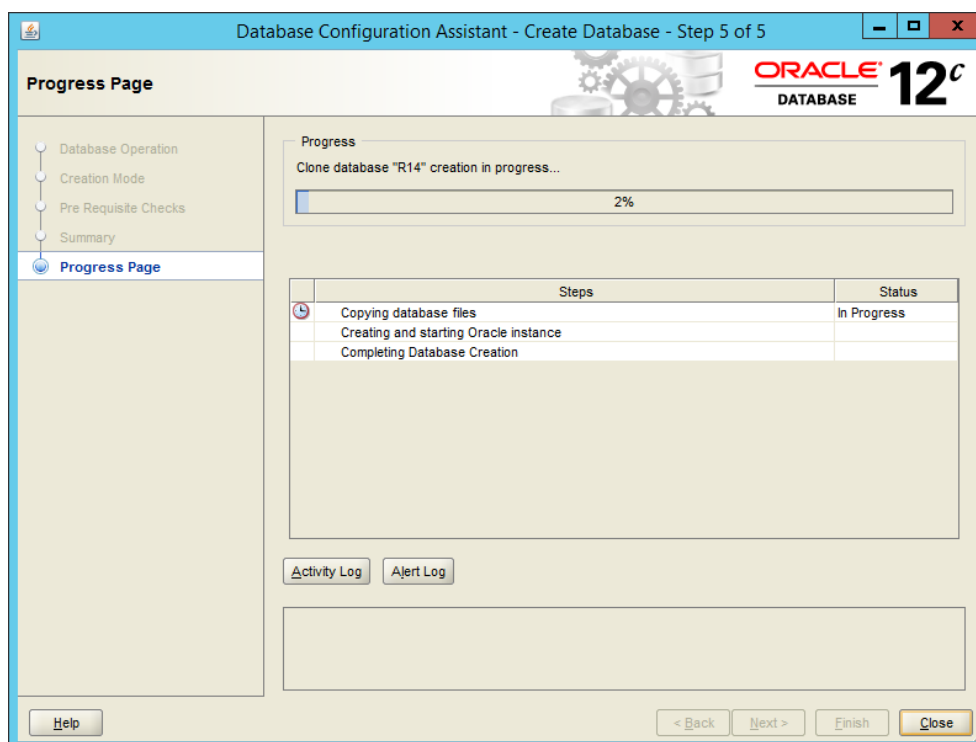
- ➔ Set a **Global Database name**. You will have to report this name in the property file of your project to the key **temn.tafj.jdbc.url**
- ➔ **IMPORTANT! Specify AL32UTF8 in the Character Sets tab...**
- ➔ Set a **Password**. This is NOT (!) the password you will set in the properties file...
- ➔ Unselect the container database and **do not specify a Pluggable Database name**.
- ➔ Press **Next...**



- ➔ Press **Next...**

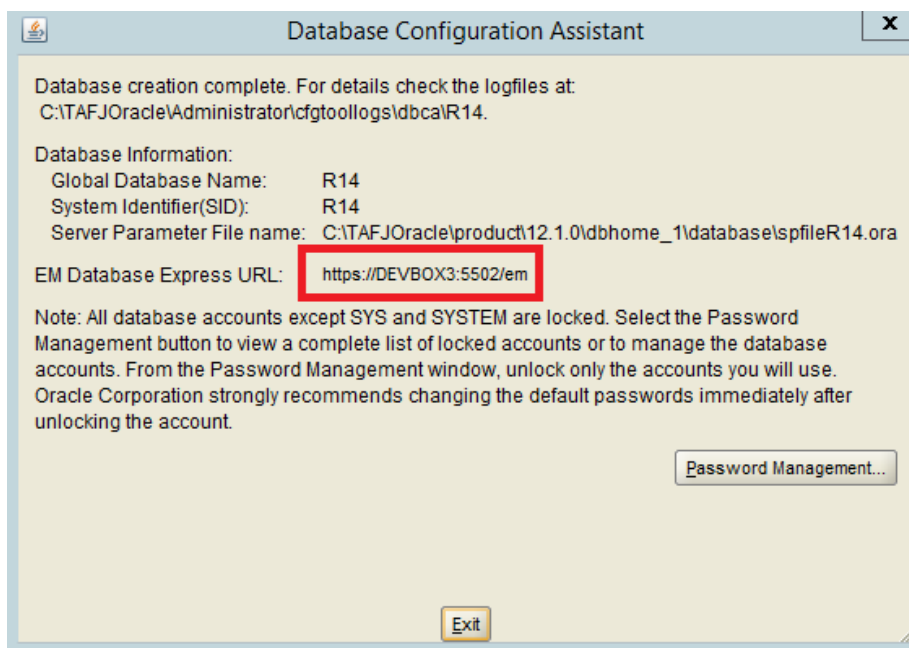


➔ Press **Finish...**

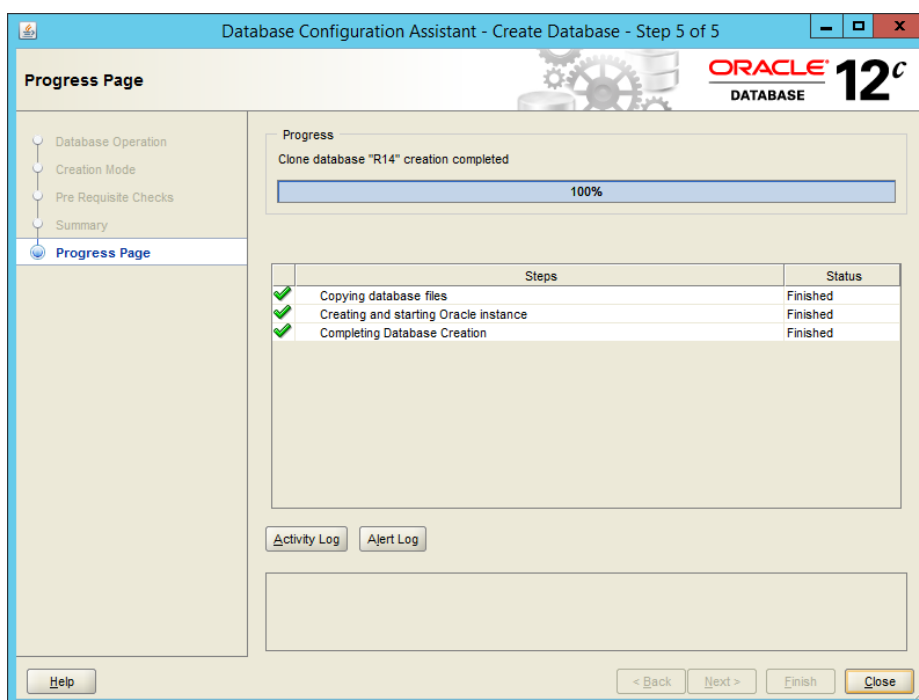




➔ and let it run.



➔ Press **Exit...** (The URL will be used as to connect to the database monitor.)



➔ Press **Close...**

➔ You can check your installation:

Browse the URL : <https://localhost:5500/em>

(The port number will be the one mentioned in the Database configuration Assistant)



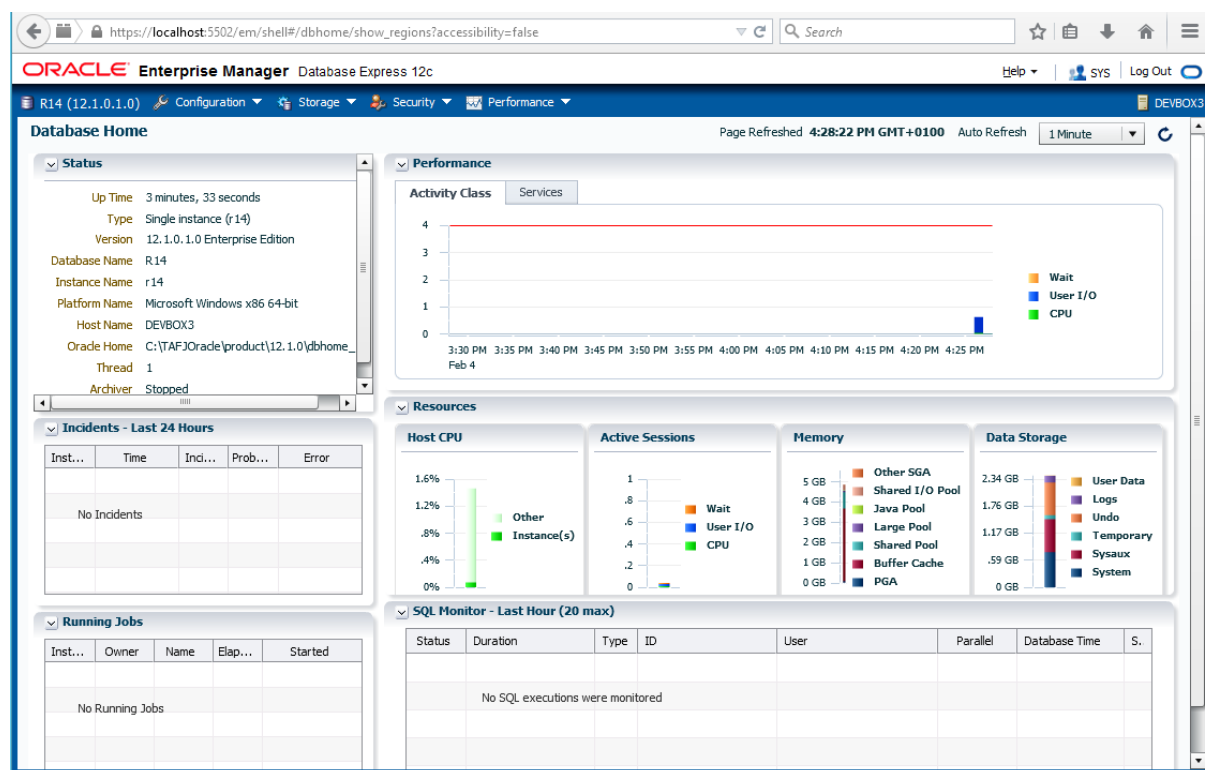
You can check your installation:

User Name : SYS

Password : The password you gave before

Connect as **SYSDBA**

# TAFJ-Oracle 12cR1 Install



## Create TableSpace and a User

In the TAFJ installation `<TAFJ_HOME>\dbscripts\oracle`, you will find 2 SQL scripts:

- `createtablespace.sql`
- `createuser.sql`

You will need to edit this script to reflect the correct data.

In the `createtablespace_oracle.sql`, you will need to change 2 values (in Green):

1. The tablespace name : `<TableSpace_Name>` should be oracle SID
2. The full path to the file holding the data : `'<TableSpace_FullPathName>.dbf'`

```
CREATE SMALLFILE TABLESPACE <TableSpace_Name> DATAFILE  
'<TableSpace_FullPathName>.dbf' SIZE 7G AUTOEXTEND ON NEXT 100M  
MAXSIZE UNLIMITED LOGGING EXTENT MANAGEMENT LOCAL SEGMENT SPACE  
MANAGEMENT AUTO;
```

i.e:

```
CREATE SMALLFILE TABLESPACE T24DB DATAFILE  
'C:\product\database\oracle\oradata\T24DB.dbf' SIZE 7G  
AUTOEXTEND ON NEXT 100M MAXSIZE UNLIMITED LOGGING EXTENT  
MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;
```

In the *createuser\_oracle.sql*, you will need to change the username and the password and the tablespace name (in Green):

The tablespace Name : <TableSpace\_Name>

The DB User Name : <DBUser>

The DB Password : <DBPassword>

```
CREATE USER <DBUser> PROFILE "DEFAULT" IDENTIFIED BY <DBPassword>
DEFAULT TABLESPACE "<TableSpace_Name>" TEMPORARY TABLESPACE "TEMP"
ACCOUNT UNLOCK;
GRANT "CONNECT" TO <DBUser>;
GRANT "RESOURCE" TO <DBUser>;
grant query rewrite      to <DBUser>;
grant create synonym      to <DBUser>;
grant drop any procedure  to <DBUser>;
grant create any table    to <DBUser>;
grant select any table    to <DBUser>;
grant update any table    to <DBUser>;
grant insert any table    to <DBUser>;
grant delete any table    to <DBUser>;
grant drop any table      to <DBUser>;
grant create any index    to <DBUser>;
grant alter any index     to <DBUser>;
grant drop any index      to <DBUser>;
grant create any view     to <DBUser>;
grant drop any view       to <DBUser>;
grant create any directory to <DBUser>;
grant select_catalog_role to <DBUser>;
grant xdbadmin to <DBUser>;
grant execute on dbms_lock to <DBUser>;
grant unlimited tablespace to <DBUser>;
call dbms_java.grant_permission( 'tafj',
'SYS:java.io.FilePermission', '<<ALL FILES>>', 'execute' );
```

*i.e:*

```
CREATE USER tafj PROFILE "DEFAULT" IDENTIFIED BY secret DEFAULT TABLESPACE
"T24BD" TEMPORARY TABLESPACE "TEMP" ACCOUNT UNLOCK;
GRANT "CONNECT" TO tafj;
GRANT "RESOURCE" TO tafj;
grant query rewrite      to tafj;
grant create synonym      to tafj;
grant drop any procedure  to tafj;
grant create any table    to tafj;
grant select any table    to tafj;
grant update any table    to tafj;
grant insert any table    to tafj;
```

```
grant delete any table to tafj;  
grant drop any table to tafj;  
grant create any index to tafj;  
grant alter any index to tafj;  
grant drop any index to tafj;  
grant create any view to tafj;  
grant drop any view to tafj;  
grant create any directory to tafj;  
grant select_catalog_role to tafj;  
grant xdbadmin to tafj;  
grant execute on dbms_lock to tafj;  
grant unlimited tablespace to tafj;  
call dbms_java.grant_permission( 'tafj', 'SYS:java.io.FilePermission',  
'<<ALL FILES>>', 'execute' );
```

Once these values have been changed, launch a console and from **<TAFJ\_HOME>** **ldbscripts/oracle**, type:

```
>sqlplus "/" as SYSDBA"
```

Then, type:

```
@createtablespace_oracle.
```

And

```
@createuser_oracle.sq
```

You will have to give the full path to these scripts if there are not in the current directory.  
These script can take several minutes to be executed.

Then, exit from sqlplus

```
exit
```

## Load the necessary Stored functions

Modify the scripts in <TAFJ\_HOME>/dbscripts/oracle **javaload(.bat)** and **javaunload(.bat)** to have the correct user, and password. These values are the one you've specified in the **createuser.sql**. Also, make sure that the database name is correct ("j24db" or whatever you've specified during the database creation).

you will need to change the username and the password and the tablespace name (in Green):

The database Name : <oracle\_SID>

The DB User Name : <DBUser>

The DB Password : <DBPassword>

```
loadjava -user <DBUser>/<DBPassword>@localhost:1521:<oracle_SID>  
-verbose -force -resolve -thin  
[INSTALL_DIR]/dbscripts/BasicFunctions.java
```

i.e:

```
loadjava -user tafj/secret@localhost:1521:T24DB -verbose -force  
-resolve -thin "C:\product\TAFJ\dbscripts\BasicFunctions.java"
```

Then run the **javaload(.bat)** script.

```
>javaload
```

On the console, you will get:

```
creating : source com/temenos/dbi/storedfunctions/BasicFunctions  
loading : source com/temenos/dbi/storedfunctions/BasicFunctions  
created : CREATE$JAVA$LOB$TABLE  
resolving: source com/temenos/dbi/storedfunctions/BasicFunctions  
errors : source com/temenos/dbi/storedfunctions/BasicFunctions  
Note: com/temenos/dbi/storedfunctions/BasicFunctions uses unchecked or unsafe  
operations.  
Note: Recompile with -Xlint:unchecked for details.  
Classes Loaded: 0
```



```
Resources Loaded: 0  
Sources Loaded: 1  
Published Interfaces: 0  
Classes generated: 0  
Classes skipped: 0  
Synonyms Created: 0  
Errors: 0
```

Once done, launch sqlplus with the user you created

```
>sqlplus <DBUser>
```

And type

```
@javafunctions_oracle.sql
```

This should create your sqlfunction which bind to the java functions you created earlier.

Then, exit from sqlplus

```
exit
```



Once this is finished you should be able to run a DBImport for oracle. Don't forget to copy the ORACLE drivers from **<TAFJ\_HOME>/dbdrivers** to **<TAFJ\_HOME>/ext**. The properties that go in the TAFJ properties file look like this:

```
temn.tafj.jdbc.url      = jdbc:oracle:thin:@localhost:1521:T24DB  
temn.tafj.jdbc.driver= oracle.jdbc.driver.OracleDriver  
temn.tafj.jdbc.username  = tafj  
temn.tafj.jdbc.password  = secret
```

