



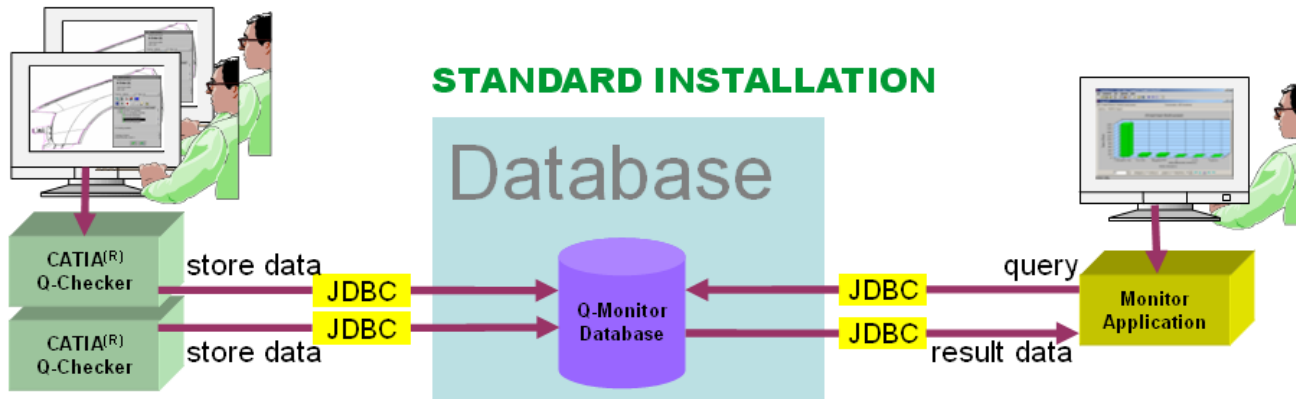
*Installation of  
Oracle Database 11g  
and Q-Monitor 4.x.x*

**TRANSCAT**  
A DASSAULT SYSTEMES COMPANY

# Installation of Oracle Database 11g and Q-Monitor

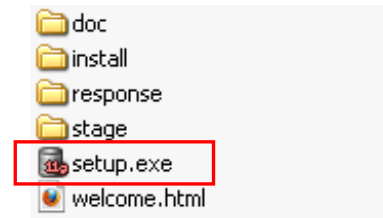
## Installation tasks

- Install Oracle Database 11g on Windows
- Install Q-Monitor 4.x.x and create the database tables
- Test database connection and update database tables with Q-Monitor
- Connect Q-Checker to the database



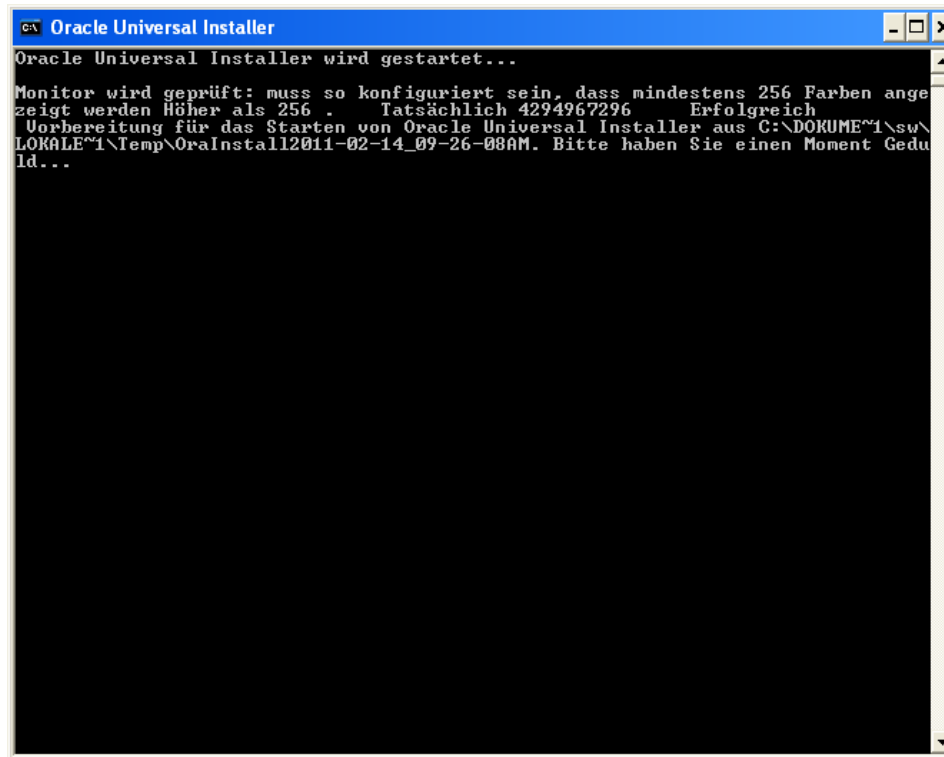
# Installation of Oracle Database 11g

- Start the Oracle DB installation by executing the installation file *setup.exe* (Download on Oracle.com)



# Installation of Oracle Database 11g

## Oracle Universal Installer is loading



```
Oracle Universal Installer
Oracle Universal Installer wird gestartet...
Monitor wird geprüft: muss so konfiguriert sein, dass mindestens 256 Farben ange
zeigt werden Höher als 256 . Tatsächlich 4294967296 Erfolgreich
Vorbereitung für das Starten von Oracle Universal Installer aus C:\DOKUME~1\sw\
LORALE~1\Temp\OraInstall12011-02-14_09-26-08AM. Bitte haben Sie einen Moment Gedu
ld...
```

# Installation of Oracle Database 11g

• If you want to get informed about security risks, type in your e-mail address

• If you want to get security updates over the „My Oracle Support“, mark the checkbox and type in your „My Oracle Support Password“

• Click Next

Oracle Database 11g Release 2 Installer - Installing database - Step 1 of 9

### Configure Security Updates

Provide your email address to be informed of security issues, install the product and initiate configuration manager. [View details.](#)

Email:   
Easier for you if you use your My Oracle Support email address/username.

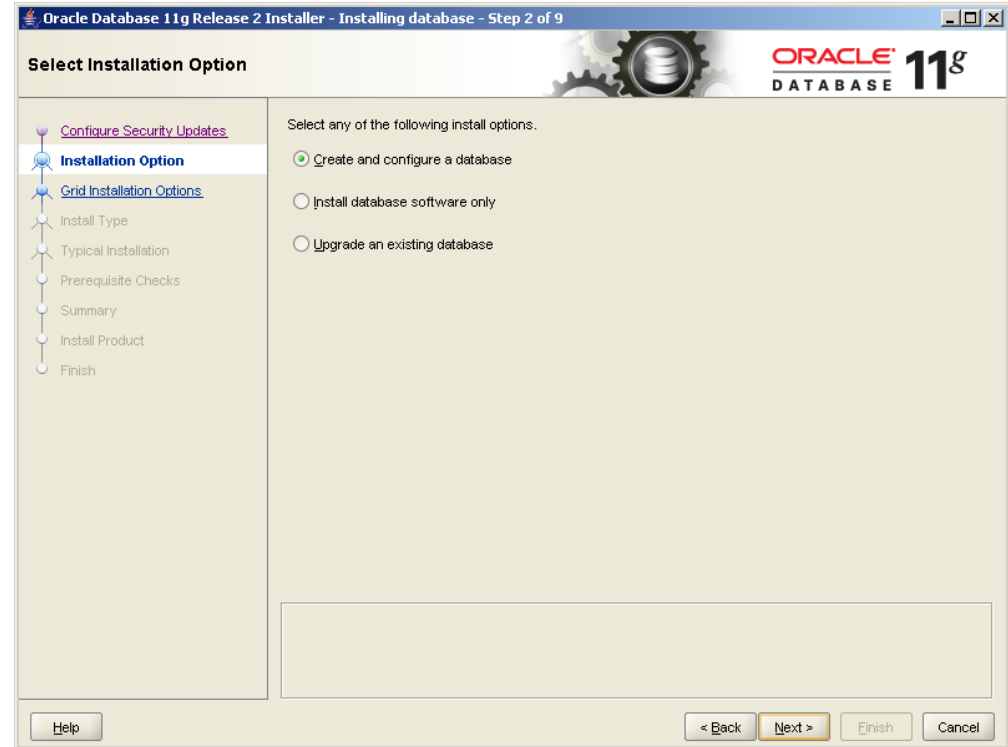
I wish to receive security updates via My Oracle Support.

My Oracle Support Password:

Help < Back Next > Finish Cancel

# Installation of Oracle Database 11g

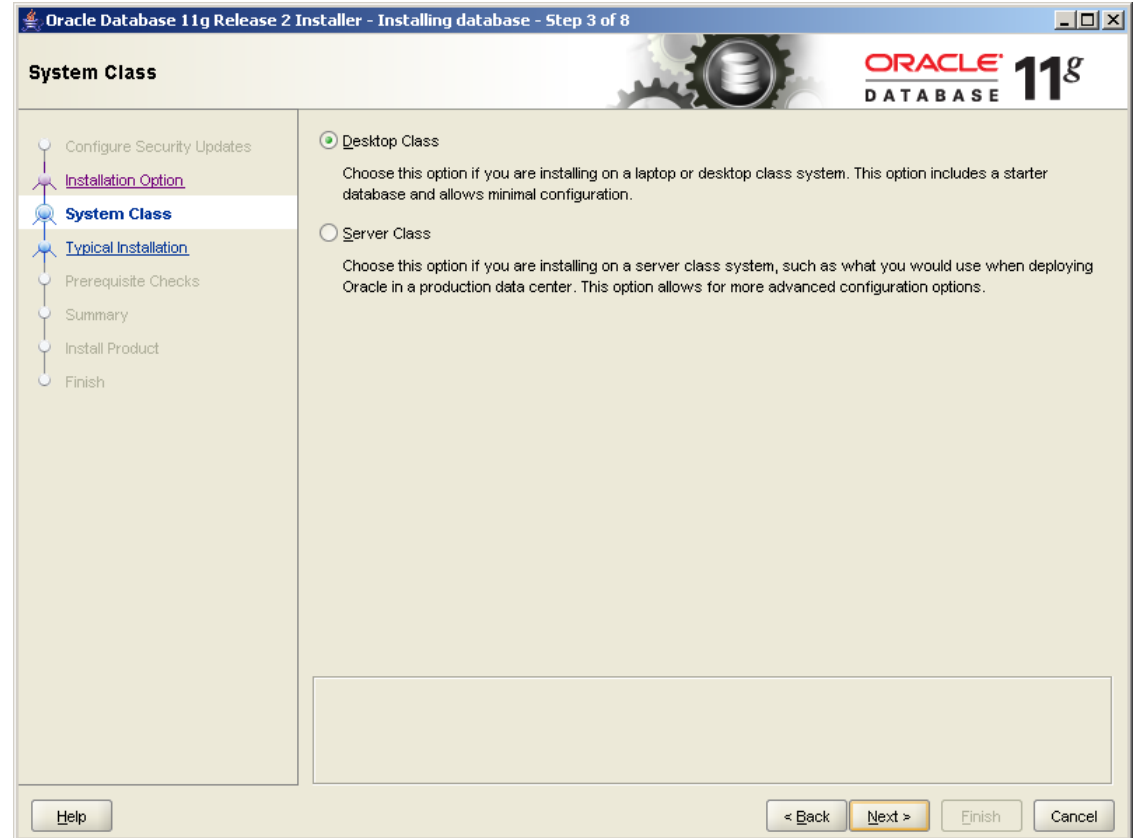
- Mark the checkbox „Create and configure a database“
- Click Next



# Installation of Oracle Database 11g

Mark the checkbox  
„Desktop Class“

Click Next



# Installation of Oracle Database 11g

- Define the parameters and set the „Administrative password“ (e.g. system)
- Click Next

Oracle Database 11g Release 2 Installer - Installing database - Step 4 of 8

### Typical Install Configuration

Perform full Database installation with basic configuration.

Oracle base:  Browse

Software location:  Browse

Database file location:  Browse

Database edition:

Character Set:

Global database name:

Administrative password:

Confirm Password:

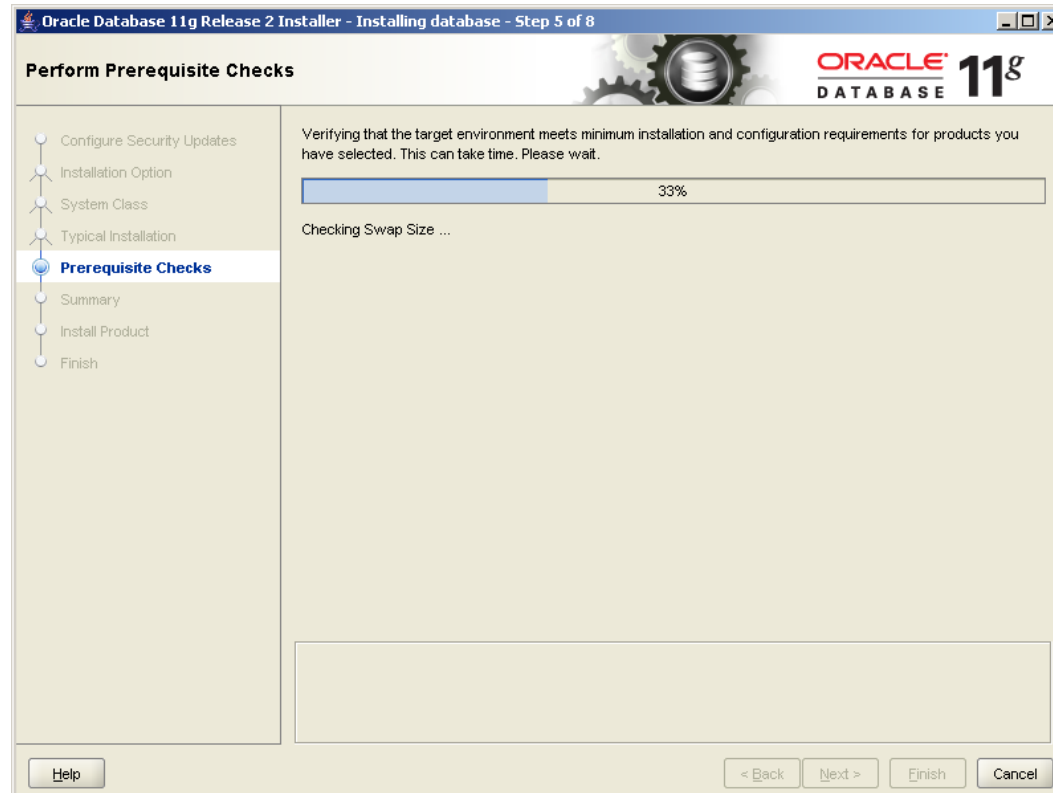
Messages:

**Administrative password:[INS-30011] The ADMIN password entered does not conform to the Oracle recommended standards.**

Help < Back Next > Finish Cancel

# Installation of Oracle Database 11g

## Some checks are running



# Installation of Oracle Database 11g

Click Next

Oracle Database 11g Release 2 Installer - Installing database - Step 5 of 8

### Perform Prerequisite Checks

Check Again Fix & Check Again Show All Ignore All

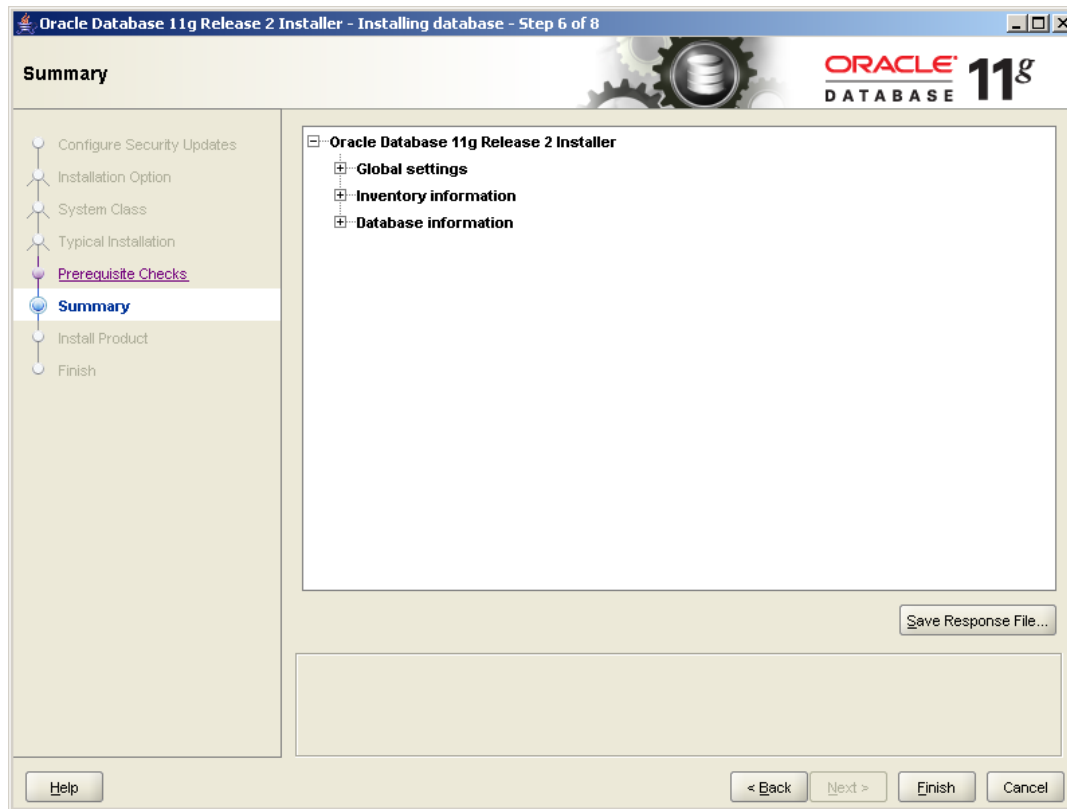
Checks	Status	Fixable
Checks		
Physical Memory	Succeeded	
Available Physical Memory	Succeeded	
Swap Size	Succeeded	
Free Space	Succeeded	
Free Space: vmxp000:C:\DOKUME-1\sw\LOKALE-1\Temp	Succeeded	
Architecture	Succeeded	
Environment variable: "PATH"	Succeeded	

This is a prerequisite condition to test whether the system has at least 922MB (944128.0KB) of total physical memory. ([more details](#))  
Expected Value : 922MB (944128.0KB)  
Actual Value : 1.4995GB (1572336.0KB)

Help < Back Next > Finish Cancel

# Installation of Oracle Database 11g

Click Finish to start the Installation



# Installation of Oracle Database 11g

## Now the Installation is running

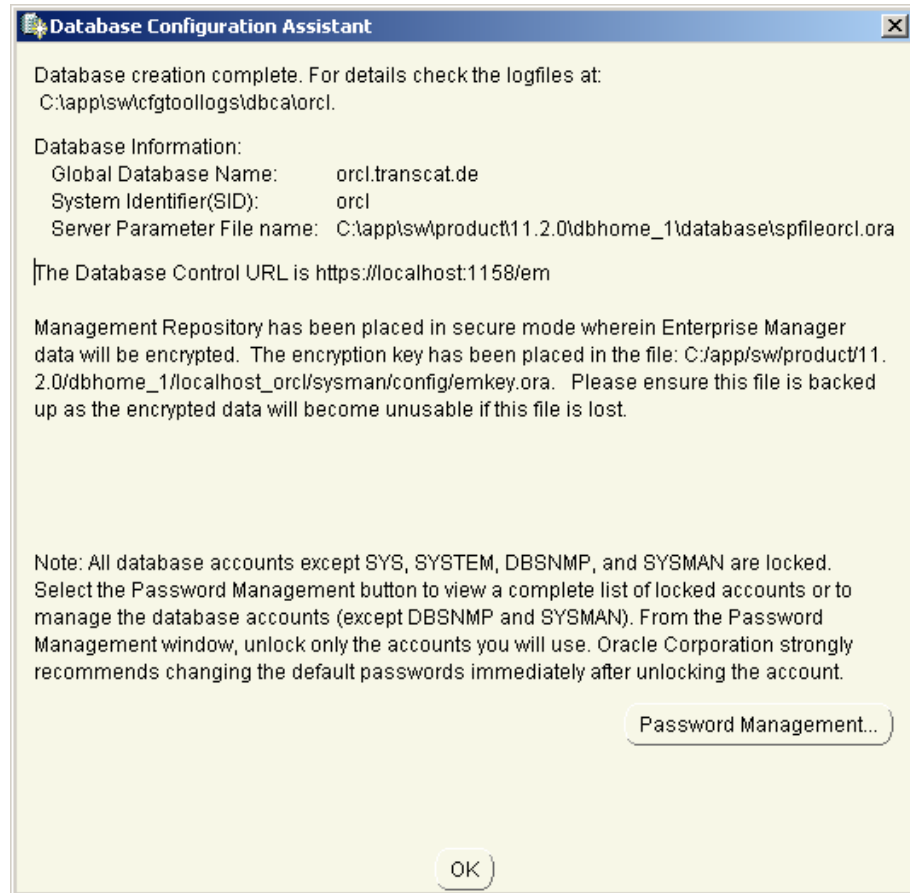
The screenshot shows the Oracle Database 11g Release 2 Installer window, titled "Oracle Database 11g Release 2 Installer - Installing database - Step 7 of 8". The window is divided into several sections:

- Install Product:** A sidebar on the left lists the installation steps: Configure Security Updates, Installation Option, System Class, Typical Installation, Prerequisite Checks, Summary, **Install Product** (highlighted), and Finish.
- Progress:** A progress bar shows 18% completion. Below it, the text reads "Extracting files to 'C:\app\sw\product11.2.0\dbhome\_1'".
- Status:** A table showing the status of various tasks:

Task	Status
Oracle Database installation	In Progress
• Prepare	Succeeded
• Copy files	In Progress
• Setup files	Pending
Oracle Database configuration	Pending
- Buttons:** "Details", "Retry", and "Skip" buttons are located below the status table.
- Oracle Application Express:** A banner at the bottom right promotes Oracle Application Express, Oracle SQL Developer, and Oracle Data Masking Pack.
- Navigation:** "Help", "< Back", "Next >", "Finish", and "Cancel" buttons are located at the bottom of the window.

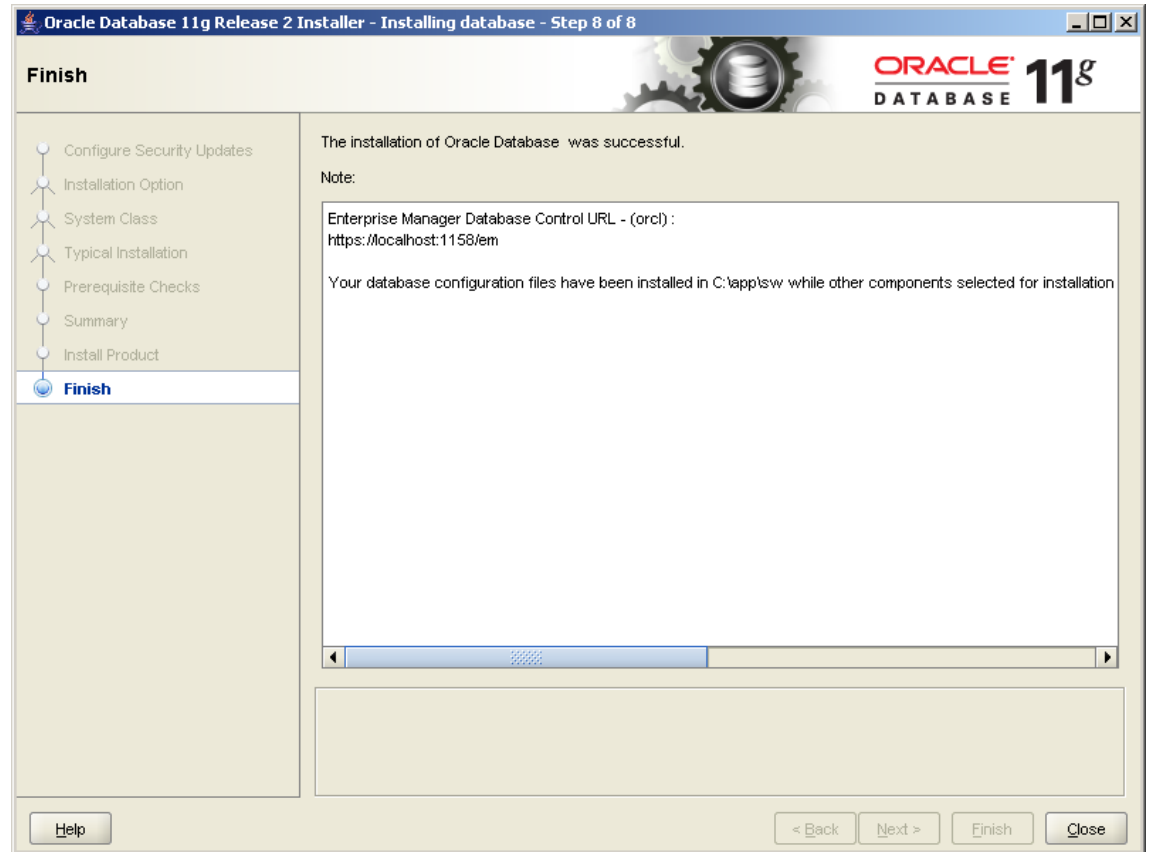
# Installation of Oracle Database 11g

Click OK



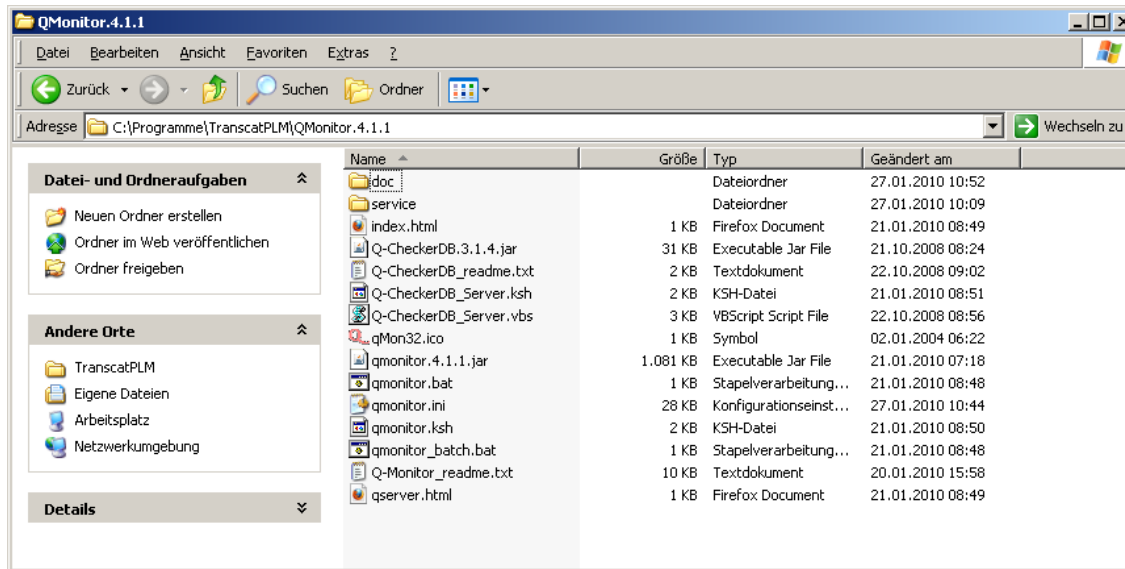
# Installation of Oracle Database 11g

Click Close to finish the Installation



# Installation of Q-Monitor

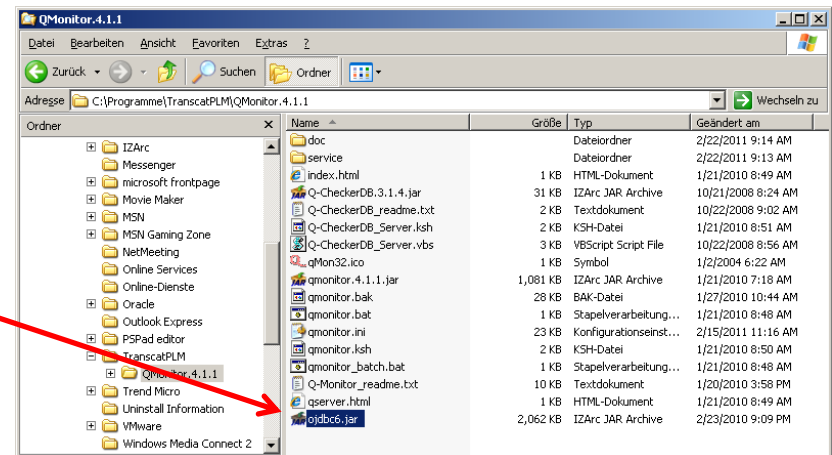
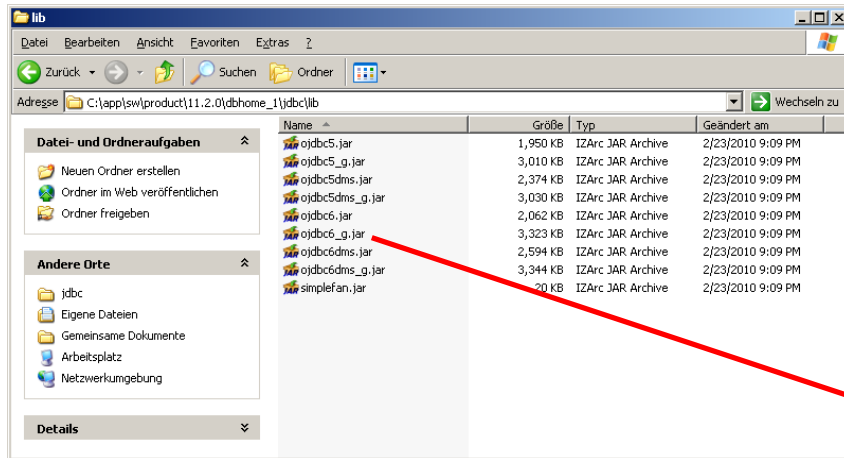
- Download the latest version of Q-Monitor
- Extract the zip archive qmonitor.4.x.x.zip into the directory **C:\Programme\TranscatPLM\QMonitor.4.1.1**



# Installation of Q-Monitor

Copy the Oracle JDBC driver ( *ojdbc6.jar* ) from the Oracle installation directory (e.g. *C:\app\sw\product\11.2.0\dbhome\_1\jdbc\lib*)

into the Q-Monitor installation directory (e.g. *C:\Programme\TranscatPLM\QMonitor.x.x.x*)



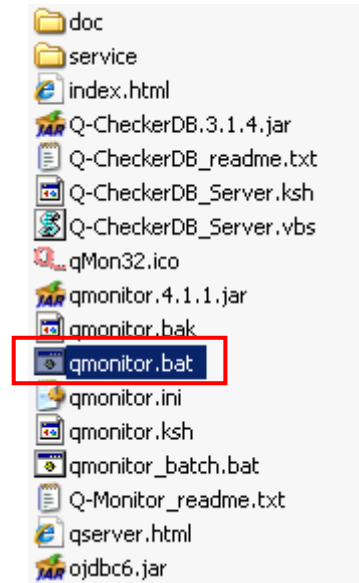
# Installation of Q-Monitor

Open the qmonitor.bat file in the Q-Monitor installation directory with the Notepad to adapt the Java installation path to the local installation of Java.

Add the JDBC driver to the classpath (see screenshot)

Save the file and close Notepad

**NOTE:** Java runtime min. 1.4 is prerequisite for Q-Monitor and must be installed on the machine!

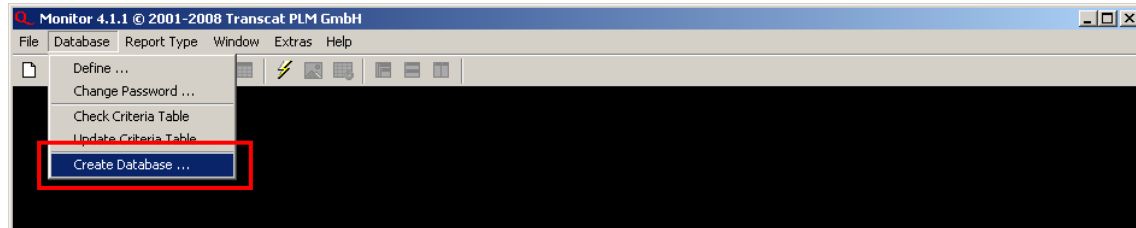
A screenshot of a Notepad window titled 'qmonitor.bat - Editor'. The window contains a batch script with the following content:

```
@echo off
REM -----
REM Q-Monitor start script
REM -----
set QMONITOR_APPL=.\qmonitor.4.1.1.jar"
set QMONITOR_JDBC=.\ojdbc6.jar"
set JAVAPATH="java"
set CLASSPATH="%QMONITOR_APPL%;%QMONITOR_JDBC%"
REM -----
%JAVAPATH% -classpath %CLASSPATH% qmon.QMonitor .\qmonitor.ini
REM -----
```

The line 'set QMONITOR\_JDBC=.\ojdbc6.jar"' is highlighted with a red rectangular box.

# Installation of Q-Monitor

- Start Q-Monitor  
by double click on  
qmonitor.bat
- Click on  
Create Database



# Installation of Q-Monitor



- 1 Fill out the database information  
DB Name: *qmonitor*  
User Name: *qmonitor*  
Password: *qmonitor*  
DB Server: *(e.g. localhost)*  
OS: *Windows*

- 2 Enter Database Type/Port number and table size

- 3 Choose a directory to store the database files  
(e.g. *C:\oracle\ora\_data\XE*)

- 4 Choose any temporary directory where the SQL script createDB.sql and Q-Checker Database file QCHECKER.db should be created  
(e.g. *c:\tmp*)

Press Save

The screenshot shows the 'Create Database' dialog box with the following fields and settings:

- DB Name:** qmonitor
- User Name:** qmonitor
- Password:** \*\*\*\*\*
- DB Server:** localhost
- OS:** Windows

**Custom Columns Definition:**

Column Name	Column Type	Default Value	Delete
CHECKING_MODE	<input type="checkbox"/> Integer <input checked="" type="checkbox"/> Text of 128	INTERACTIVE	<input checked="" type="checkbox"/>
CUSTOMER_NUMBER	<input checked="" type="checkbox"/> Integer <input type="checkbox"/> Text of 255	4711	<input checked="" type="checkbox"/>

**Database Type and JDBC Port:** ORACLE, 1521, Default

**Approximate Database Size:** MB 125, 2505, Checks

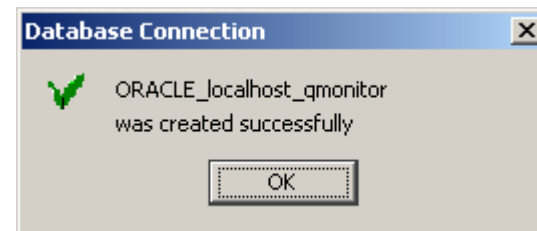
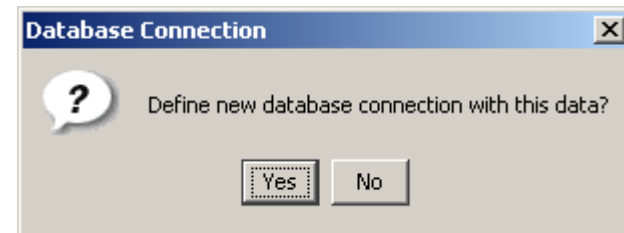
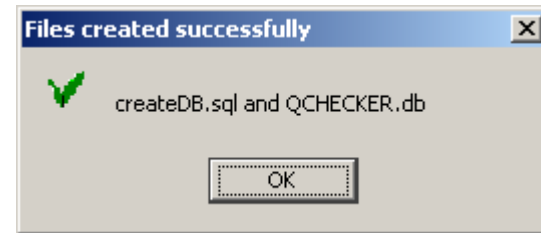
**Directory to Store Database Files (DB2 and ORACLE only):** C:\oracle\ora\_data\XE

**Target Directory for createDB.sql and QCHECKER.db Files:** C:\tmp

Buttons: Save, Close

# Installation of Q-Monitor

- The following panel appears
- Click OK
  
- The following panel appears
- Click Yes
  
- The Database connection is created and set to default in Q-Monitor
- Click OK
  
- Close Q-Monitor



# Installation of Q-Monitor

Open the Windows console:

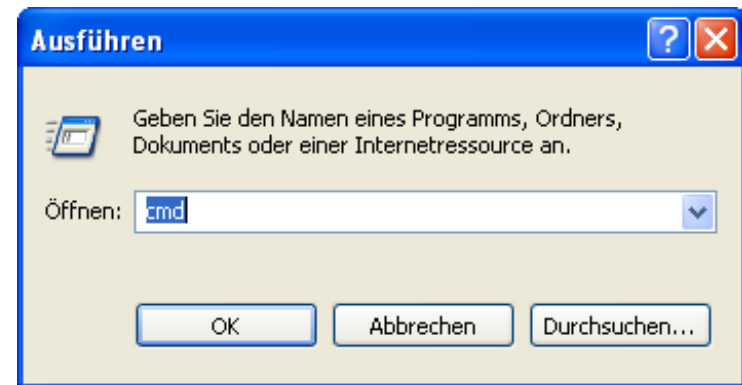
→ *Windows Start / Run*

Write:

*cmd*

into the text box

and press OK



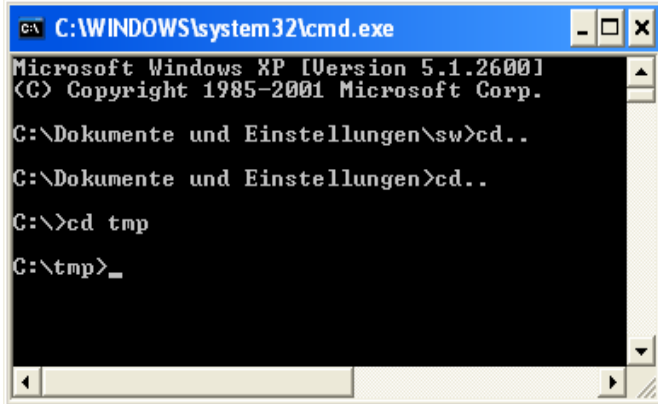
# Installation of Q-Monitor

Change directory to *C:\tmp*  
(the directory must contain the *createDB.sql* file )

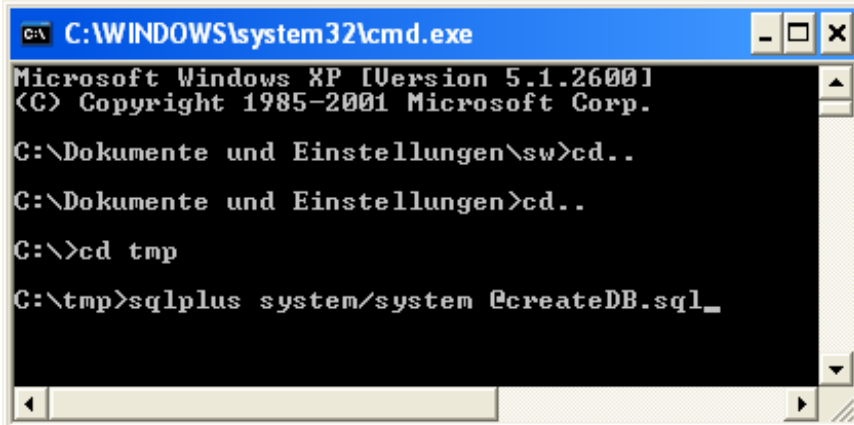
Type:  
*sqlplus system/system @createDB.sql*  
into the console.

Press Enter

Note:  
In our example, we use the user:  
*system* with password: *system*



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Dokumente und Einstellungen\sw>cd..
C:\Dokumente und Einstellungen>cd..
C:\>cd tmp
C:\tmp>_
```



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Dokumente und Einstellungen\sw>cd..
C:\Dokumente und Einstellungen>cd..
C:\>cd tmp
C:\tmp>sqlplus system/system @createDB.sql_
```

# Installation of Q-Monitor

Make sure that all task are finished properly like the screenshot on the right side.

Close the console

```
ex C:\WINDOWS\system32\cmd.exe - sqlplus system/system @createDB.sql
Connected to:
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - Production
With the Partitioning, OLAP, Data Mining and Real Application Testing options
CREATE TABLESPACE CHECK_CRIT_IDX ...
Tablespace created.
CREATE TABLESPACE CHECK_CRITERION ...
Tablespace created.
CREATE TABLESPACE CHECK_SESSION ...
Tablespace created.
CREATE TABLESPACE CRITERION_INFO ...
Tablespace created.
CREATE USER qmonitor ...
User created.
GRANT CREATE SESSION TO qmonitor ...
Grant succeeded.
CREATING TABLE qmonitor.CHECK_SESSION
Table created.
CREATE CUSTOM COLUMNS ...
Table altered.
Table altered.
CREATING TABLE qmonitor.CRITERION_INFO
Table created.
CREATING TABLE qmonitor.CHECK_CRITERION
Table created.
CREATING INDEX CRITERION_NUMBER on qmonitor.CHECK_CRITERION
Index created.
COMMIT
Commit complete.
```

Name	Null?	Type
CHECK_ID	NOT NULL	CHAR(20)
CRITERION_NUMBER	NOT NULL	NUMBER(38)
CRITERION_KEYWORD	NOT NULL	VARCHAR2(128)
PRIORITY_NUMBER	NOT NULL	NUMBER(38)
PRIORITY_TEXT	NOT NULL	VARCHAR2(128)
CHECK_STATUS	NOT NULL	NUMBER(38)
NUMBER_OF_ERRORS		NUMBER(38)
CRIT_WEIGHT_SUM		NUMBER(38)
HEAL_STATUS	NOT NULL	NUMBER(38)
NUMBER_OF_HEALED		NUMBER(38)
CRIT_CHECKING_USED_TIME		NUMBER(38)

# Installation of Q-Monitor

## Database structure

CRITERION_INFO		
CRITERION_NAME_DE	CRITERION_NAME_EN	CRITERION_NUMBER
Modellgröße	Model Size	1115
Aktives Set	Current Set	1098
:	:	:

NLS Criterion names

Coupled by key  
CRITERION\_NUMBER

CHECK_CRITERION		
CRITERION_NUMBER	.....	CHECK_ID
1115		1707..21
1098		1707..21
1048		1707..21
1099		1707..21
1048		1707..22
:		1707..22

Complete Data for each  
checked Criterion

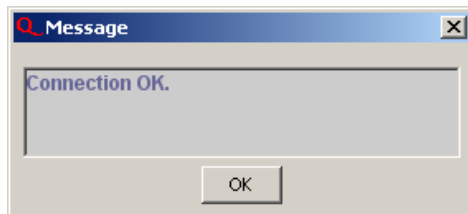
CHECK_SESSION				
CHECK_ID	.....	.....	.....	.....
1707..21				
1707..22				
1707..23				
:				

Header Data for each check

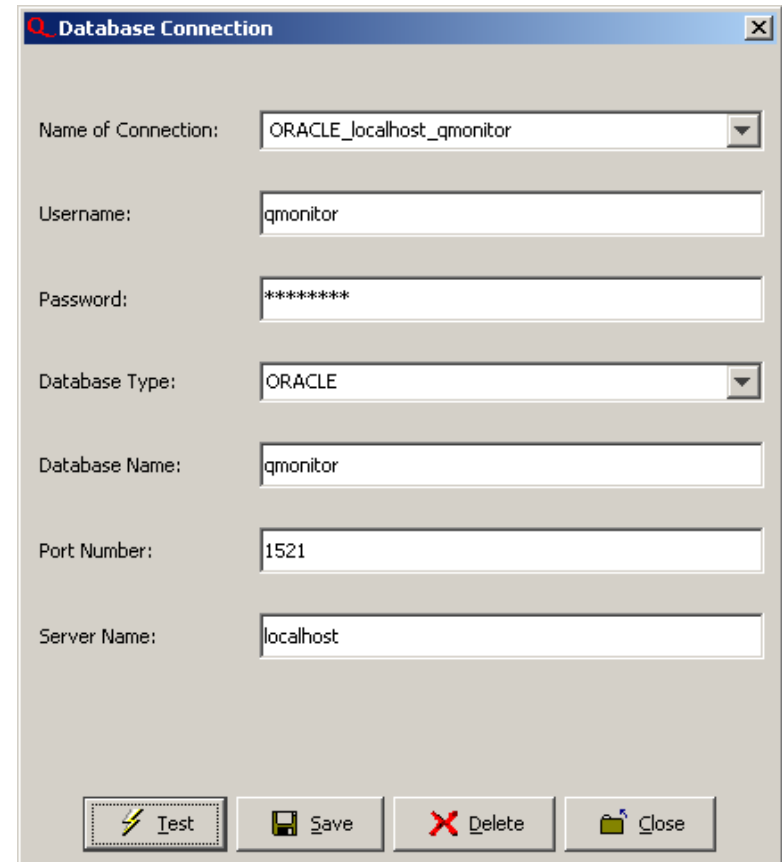
Coupled by key CHECK\_ID

# Installation of Q-Monitor

- Start Q-Monitor
- Click on: *Database – Define*
- Verify the Database  
Connection information
- Set the Database name to qmonitor
- Click on Test  
The following message should appear.



- Exit the panel with  
Save and close

A "Database Connection" dialog box with a title bar containing a red magnifying glass icon and a close button (X). The dialog contains several fields:

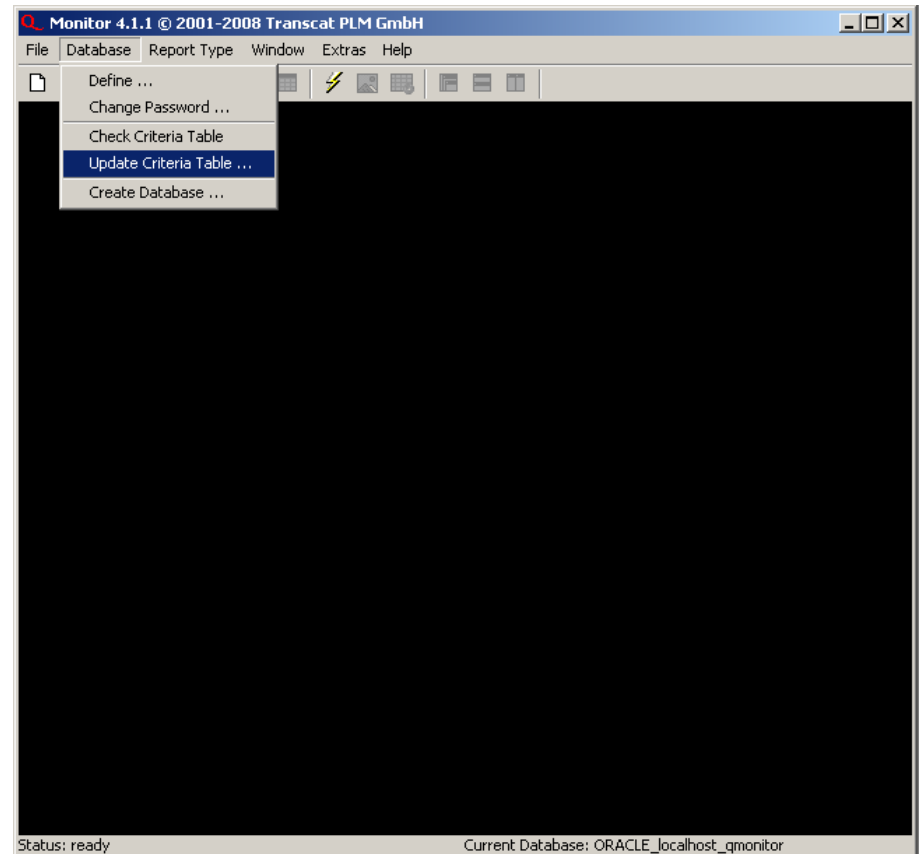
- Name of Connection: ORACLE\_localhost\_qmonitor (dropdown menu)
- Username: qmonitor (text field)
- Password: \*\*\*\*\* (password field)
- Database Type: ORACLE (dropdown menu)
- Database Name: qmonitor (text field)
- Port Number: 1521 (text field)
- Server Name: localhost (text field)

At the bottom, there are four buttons: "Test" (with a lightning bolt icon), "Save" (with a floppy disk icon), "Delete" (with a red X icon), and "Close" (with a window icon).

# Installation of Q-Monitor

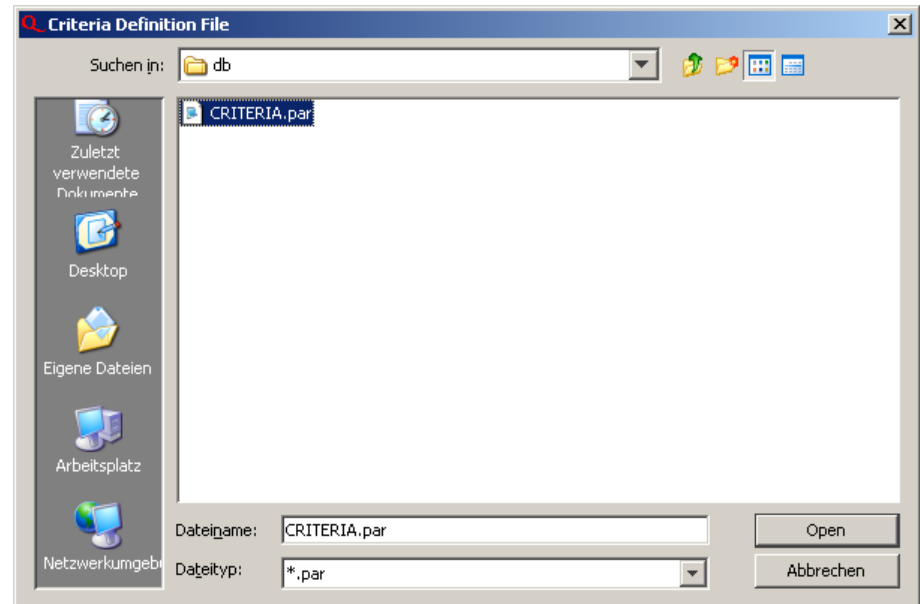
Click on

 *Update Criteria Table*



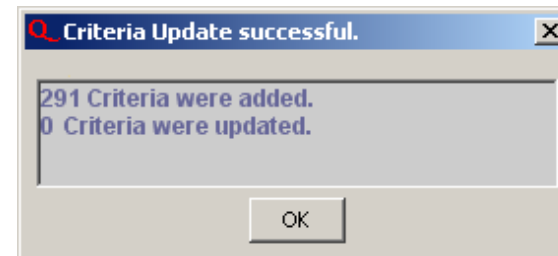
# Installation of Q-Monitor

- Select from the Q-Checker installation directory  
.../adminV5/DEFAULT/db  
the file *CRITERIA.par*



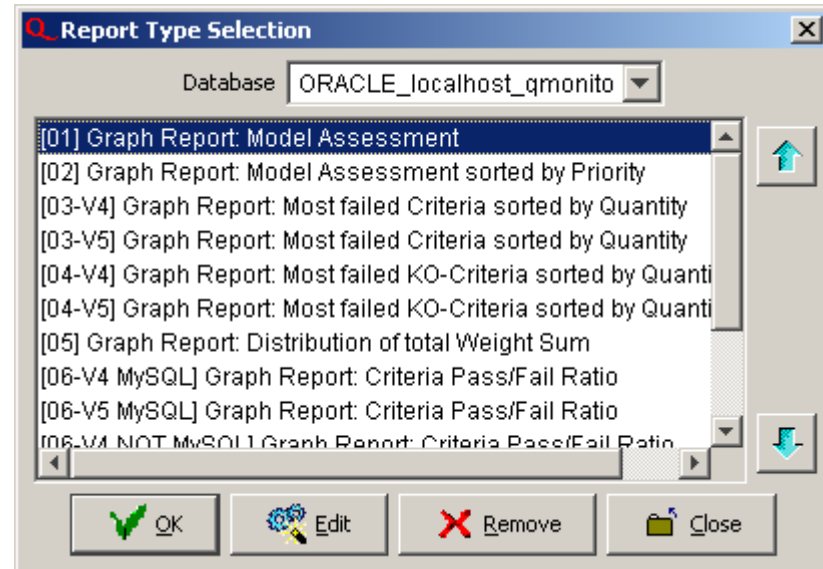
# Installation of Q-Monitor

- The Criteria Table is updated successfully.



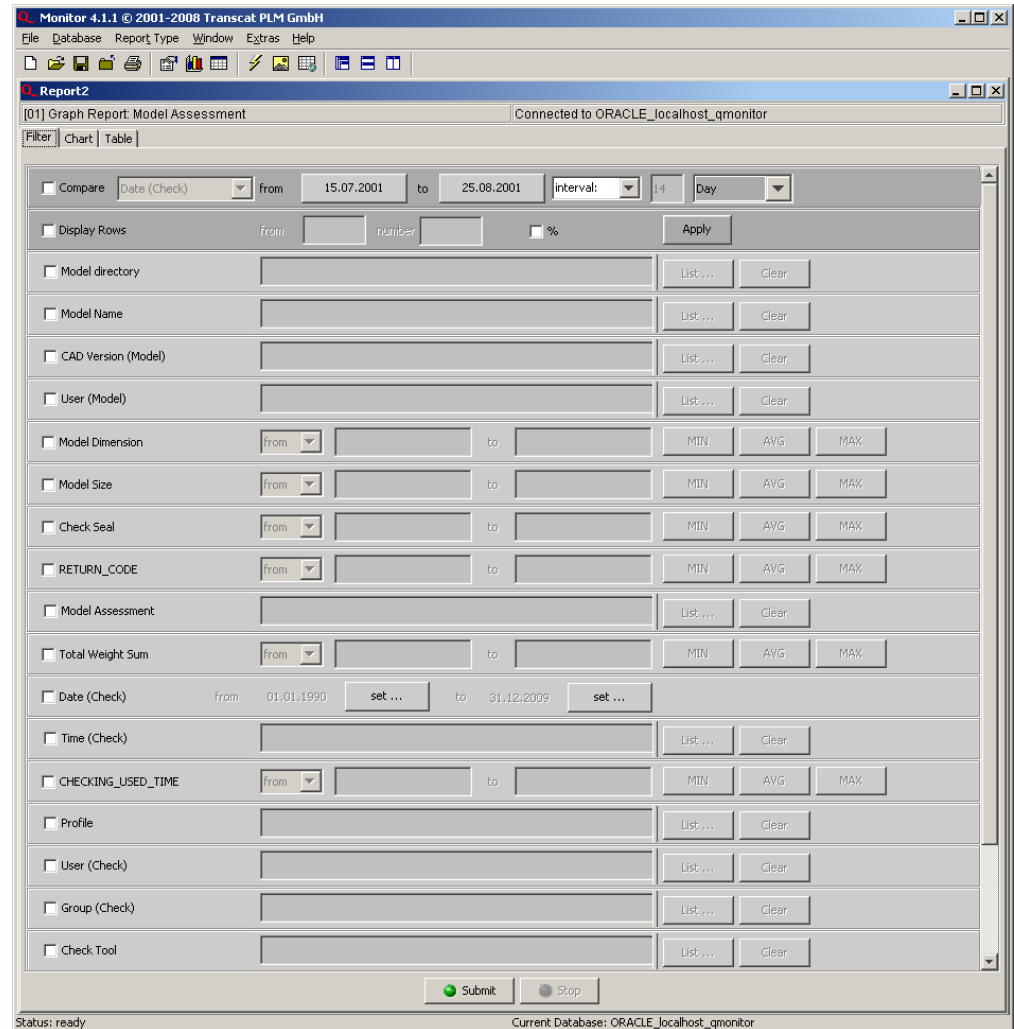
# Installation of Q-Monitor

- **Make a new query (File – New)**
- **Choose first query**
- **Click OK**



# Installation of Q-Monitor

- Start the query by clicking on „Query“
- Q-Monitor will show an empty graph as long as no Q-Checker reports are checked in.



# Adapting Q-Checker to the database

Copy the JDBC driver

(e.g. *C:\app\sw\product\11.2.0\dbhome\_1\jdbc\lib\ojdbc6.jar*)

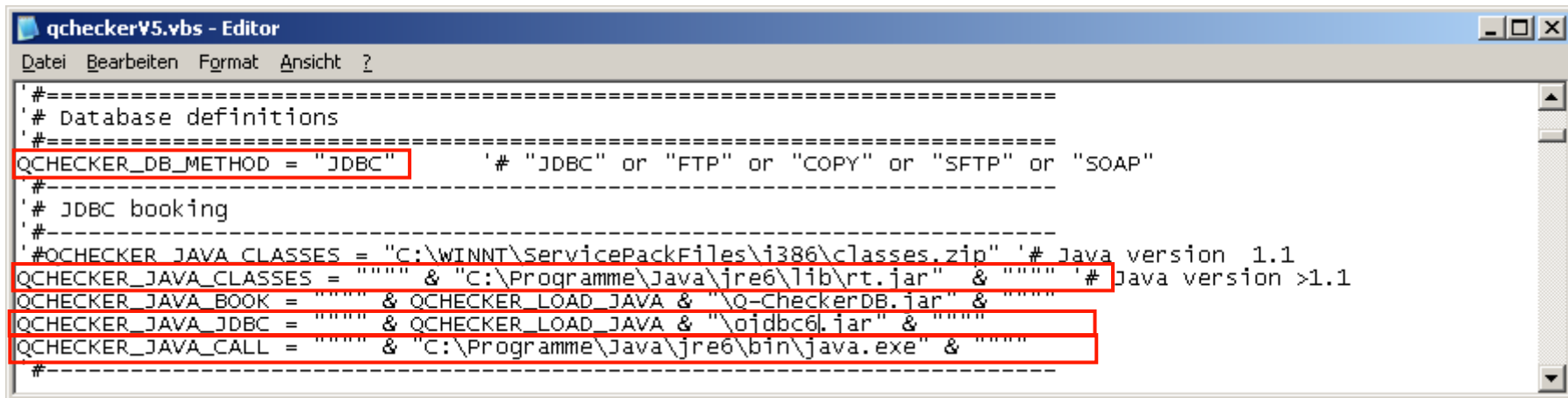
from the Oracle installation directory into the Q-Checker installation directory

(e.g. *D:\Programme\Transcat PLM\Q-Checker\oad*)

Adapt the following lines in the file:

*<Q-CheckerInstallationDir>\qcheckerV5.vbs*

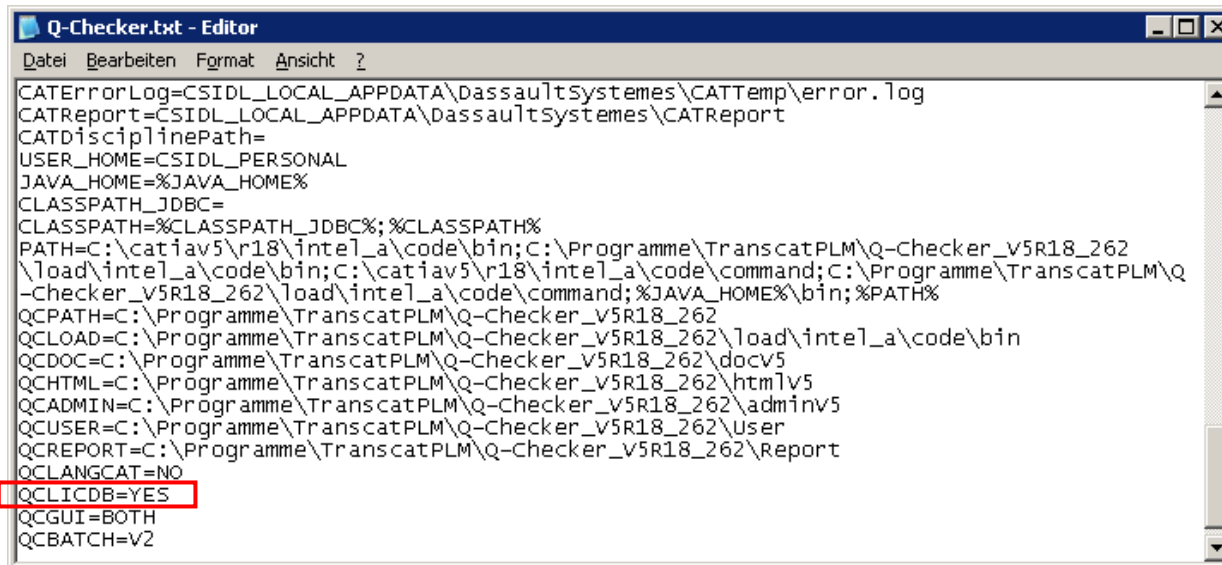
to your local installation of Java and to the Oracle JDBC driver



```
#=====
'# Database definitions
'#=====
QCHECKER_DB_METHOD = "JDBC"          '# "JDBC" or "FTP" or "COPY" or "SFTP" or "SOAP"
'#
'# JDBC booking
'#
'#OCHECKER JAVA CLASSES = "C:\\WINNT\\ServicePackFiles\\i386\\classes.zip" '# Java version 1.1
QCHECKER_LOAD_JAVA & "C:\\Programme\\Java\\jre6\\lib\\rt.jar" & "" '# Java version >1.1
QCHECKER_LOAD_JAVA & "Q-CheckerDB.jar" & ""
QCHECKER_LOAD_JAVA & "ojdbc6.jar" & ""
QCHECKER_LOAD_JAVA & "C:\\Programme\\Java\\jre6\\bin\\java.exe" & ""
#=====
```

# Adapting Q-Checker to the database

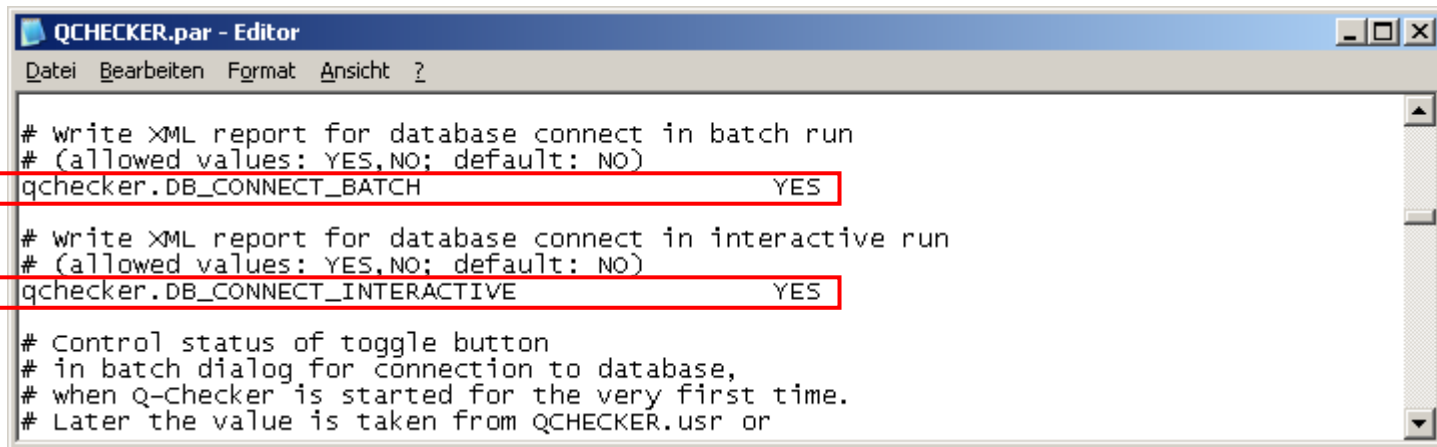
- Adapt the CATIA environment text file (by default it is located in *C:\Documents and Settings\All Users\Application Data\DassaultSystemes\CATEnv*) and enable the Q-Checker Database License (*QCLICDB=YES*)  
**NOTE: The license TC-qcheckerV5-DB must be available!**



```
Q-Checker.txt - Editor
Datei Bearbeiten Format Ansicht ?
CATErrLog=CSIDL_LOCAL_APPDATA\DassaultSystemes\CATtemp\error.log
CATReport=CSIDL_LOCAL_APPDATA\DassaultSystemes\CATReport
CATdisciplinePath=
USER_HOME=CSIDL_PERSONAL
JAVA_HOME=%JAVA_HOME%
CLASSPATH_JDBC=
CLASSPATH=%CLASSPATH_JDBC%;%CLASSPATH%
PATH=C:\catia5\r18\intel_a\code\bin;C:\Programme\TranscatPLM\Q-Checker_v5R18_262
\load\intel_a\code\bin;C:\catia5\r18\intel_a\code\command;C:\Programme\TranscatPLM\Q
-Checker_v5R18_262\load\intel_a\code\command;%JAVA_HOME%\bin;%PATH%
QCPATH=C:\Programme\TranscatPLM\Q-Checker_v5R18_262
QCLOAD=C:\Programme\TranscatPLM\Q-Checker_v5R18_262\load\intel_a\code\bin
QCDOC=C:\Programme\TranscatPLM\Q-Checker_v5R18_262\docv5
QCHTML=C:\Programme\TranscatPLM\Q-Checker_v5R18_262\htmlv5
QCADMIN=C:\Programme\TranscatPLM\Q-Checker_v5R18_262\adminv5
QCUSER=C:\Programme\TranscatPLM\Q-Checker_v5R18_262\User
QCREPORT=C:\Programme\TranscatPLM\Q-Checker_v5R18_262\Report
QCLANGCAT=NO
QCLICDB=YES
QCGUI=BOTH
QCBATCH=V2
```

# Adapting Q-Checker to the database

- Adapt the file <Q-CheckerInstallationDir>\adminV5\<Environment>\QCHECKER.par and enable the Database Connection for batch and interactive mode.



The screenshot shows a text editor window titled "QCHECKER.par - Editor". The window contains the following text:

```
# write XML report for database connect in batch run
# (allowed values: YES,NO; default: NO)
qchecker.DB_CONNECT_BATCH YES

# write XML report for database connect in interactive run
# (allowed values: YES,NO; default: NO)
qchecker.DB_CONNECT_INTERACTIVE YES

# Control status of toggle button
# in batch dialog for connection to database,
# when Q-Checker is started for the very first time.
# Later the value is taken from QCHECKER.usr or
```

Red boxes highlight the two configuration lines: `qchecker.DB_CONNECT_BATCH YES` and `qchecker.DB_CONNECT_INTERACTIVE YES`.

# Adapting Q-Checker to the database

- Copy the file QCHECKER.db which was created during the setup of the database by Q-Monitor from c:\tmp into the directory <Q-CheckerInstallationDir>\adminV5\<Environment>\db
- Set the value for qchecker.DB\_NAME to qmonitor
- Verify that the values match with the connection parameters used in Q-Monitor.

```
#-----  
# Q-Checker configuration file for database connect.  
#-----  
  
# Define database type  
# ( allowed values: DB2, ORACLE, MSSQL, MSSQL2005, POSTGRESQL, MYSQL, DB2V9 )  
qchecker.DB_TYPE          ORACLE  
  
# Define user with write access to database  
qchecker.DB_USER          qmonitor  
  
# Define password of user with write access to database  
qchecker.DB_PASSWORD      qmonitor  
  
# Define address of database server  
qchecker.DB_SERVER        localhost  
  
# Define database name  
qchecker.DB_NAME          qmonitor  
  
# Define port for remote database access. Default values:  
# ( default for DB2: 8888, default for ORACLE: 1521, default for MSSQL: 1433 )  
# ( default for POSTGRESQL: 5432, MYSQL: 3306 )  
qchecker.DB_PORT          1521
```

***TRANSCAT***

***The End***

[www.transcat-plm.com](http://www.transcat-plm.com)