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Oracle & .NET Presentation downloads available from:
<http://www.eaglepowersolutions.com/technologies/oracle.aspx>

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Oracle 10gR2 , .NET Extensions & ODT/ODP Installation Notes

Oracle Database 10g Installation - Installation Method

Select Installation Method

☐ **Basic Installation**
Perform full Oracle Database 10g installation with standard configuration options requiring minimal input. This option uses file system for storage, and a single password for all database accounts.

Oracle Home Location:

Installation Type:

☒ Create Starter Database (additional 720MB)

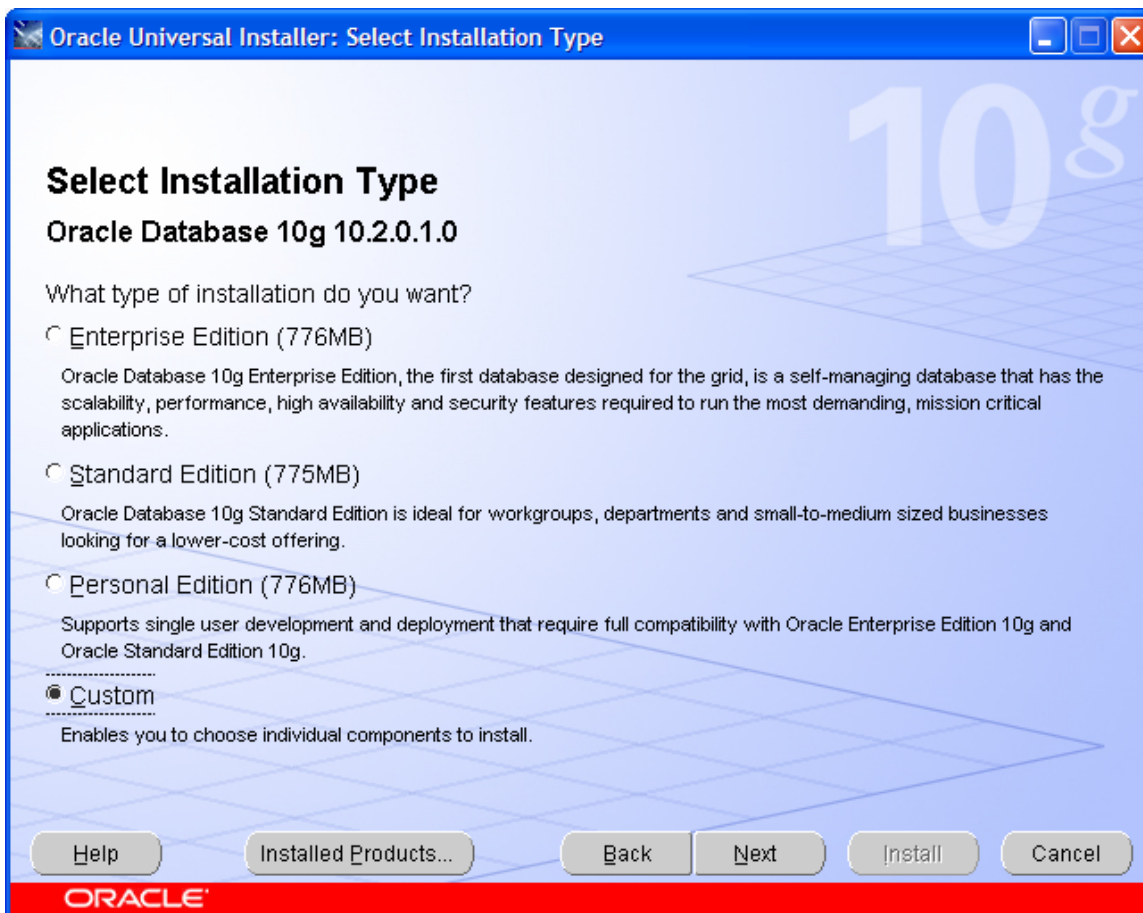
Global Database Name:

Database Password: Confirm Password:

This password is used for the SYS, SYSTEM, SYSMAN, and DBSNMP accounts.

☐ **Advanced Installation**
Allows advanced selections such as different passwords for the SYS, SYSTEM, SYSMAN, and DBSNMP accounts, database character set, product languages, automated backups, custom installation, and alternative storage options such as Automatic Storage Management.

ORACLE



Oracle Universal Installer: Specify Home Details

Specify Home Details

Destination

Enter or select a name for the installation and the full path where you want to install the product.

Name:

Path:

ORACLE

Oracle Universal Installer: Available Product Components

10g

Available Product Components

Oracle Database 10g

The following are components that you can install as part of Oracle Database 10g. Which of these components do you want to install?

Components	Install Status
<input type="checkbox"/> Oracle Label Security 10.2.0.1.0	Not Installed
<input checked="" type="checkbox"/> Oracle OLAP 10.2.0.1.0	New Install
<input type="checkbox"/> Oracle COM Automation Feature 10.2.0.1.0	Not Installed
<input type="checkbox"/> Data Mining Scoring Engine 10.2.0.1.0	Not Installed
<input checked="" type="checkbox"/> Oracle Database Extensions for .NET 10.2.0.1.0	New Install
<input checked="" type="checkbox"/> Oracle Net Services 10.2.0.1.0	New Install
<input checked="" type="checkbox"/> Oracle Net Listener 10.2.0.1.0	New Install
<input type="checkbox"/> Oracle Connection Manager 10.2.0.1.0	Not Installed
<input checked="" type="checkbox"/> Oracle Call Interface (OCI) 10.2.0.1.0	New Install
<input checked="" type="checkbox"/> Oracle Programmer 10.2.0.1.0	New Install

☐ Show all components, including required dependencies.

Help

Installed Products...

Back

Next

Install

Cancel

ORACLE

Oracle Data Access Components (ODAC) for Windows - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Search

Favorites

Addresshttp://www.oracle.com/technology/software/tech/windows/odpnet/index.html?rssid=rss_otn_newsGoLinks

Middleware

Developer Tools

Enterprise Management

Applications Technology

Products A-Z

TECHNOLOGIES

BI & Data Warehousing

Java

Linux

.NET

Office

PHP

Security

Service-Oriented Architecture

XML

Windows Server System

Technologies A-Z

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Oracle ACEs

TechBlast Newsletter

Oracle Magazine

Oracle 10g Books

Education

User Groups


Partner White Papers

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SELECT COUNTRY

Oracle Data Access Components (ODAC)
Downloads

Optimized for
 Microsoft
Visual Studio

Oracle Developer Tools for Visual Studio .NET with Oracle10g Release 2 ODAC 10.2.0.2.20

Download the File

Oracle Developer Tools for Visual Studio .NET with ODAC 10.2.0.2.20

The Oracle Developer Tools for Visual Studio .NET is a powerful new "add-in" for Visual Studio .NET that makes it easier and faster for .NET developers to write Oracle applications. It is a tightly integrated with Visual Studio .NET and includes powerful features such as designers, automatic code generation and a PL/SQL editor.

- Includes support for Visual Studio 2005, integrated PL/SQL debugging, ADO.NET 2.0, and .NET Stored Procedures for .NET 2.0

Download Includes

Oracle Developer Tools for Visual Studio .NET 2003 10.2.0.2.20

Oracle Developer Tools for Visual Studio 2005 10.2.0.2.20

Oracle Data Provider for .NET 1.x 10.2.0.2.20

Oracle Data Provider for .NET 2.0 10.2.0.2.20

Oracle Database Extensions for .NET 1.x 10.2.0.2.20 -- for upgrade only

Oracle Database Extensions for .NET 2.0 10.2.0.2.20 -- for upgrade only

Oracle Provider for OLE DB 10.2.0.2.20

Oracle Objects for OLE 10.2.0.2.20

Oracle Services for Microsoft Transaction Server 10.2.0.1.0

Oracle10g Release 2 ODAC 10.2.0.2.20

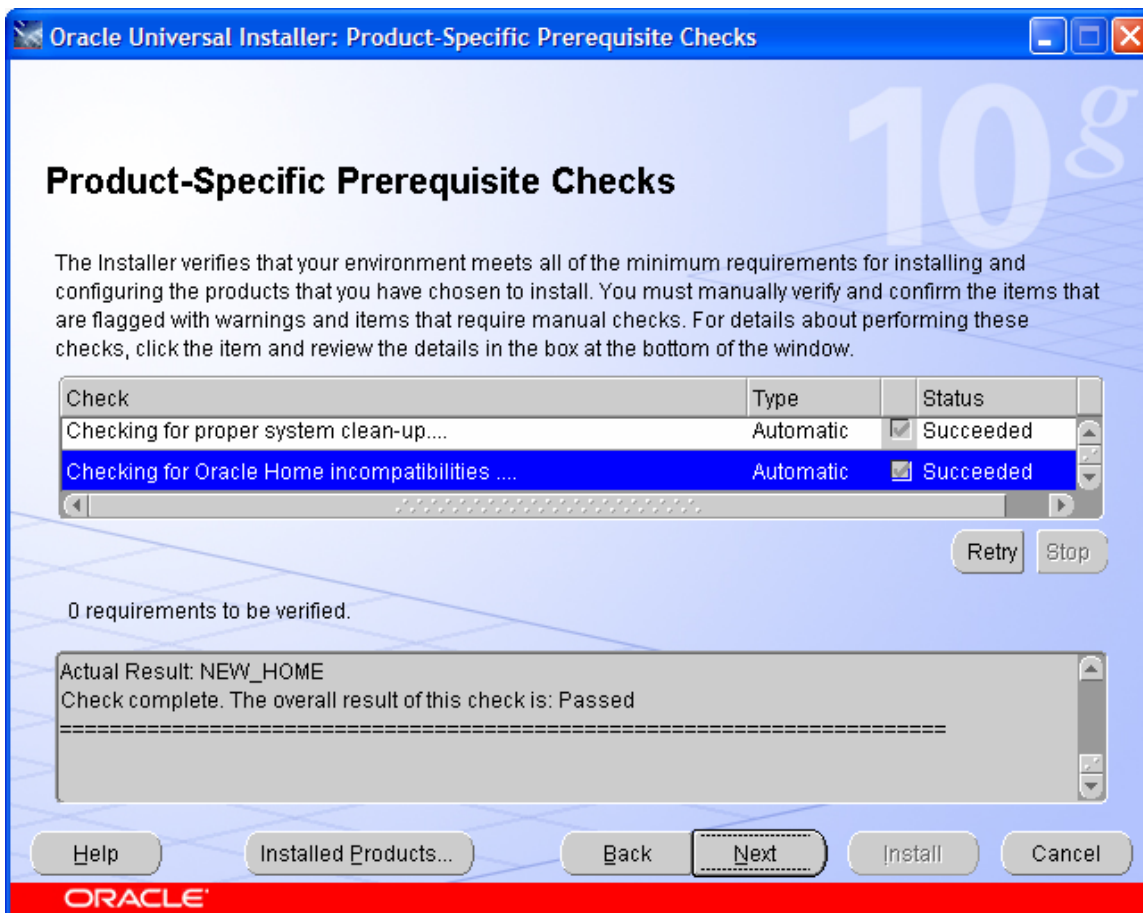
Download the File

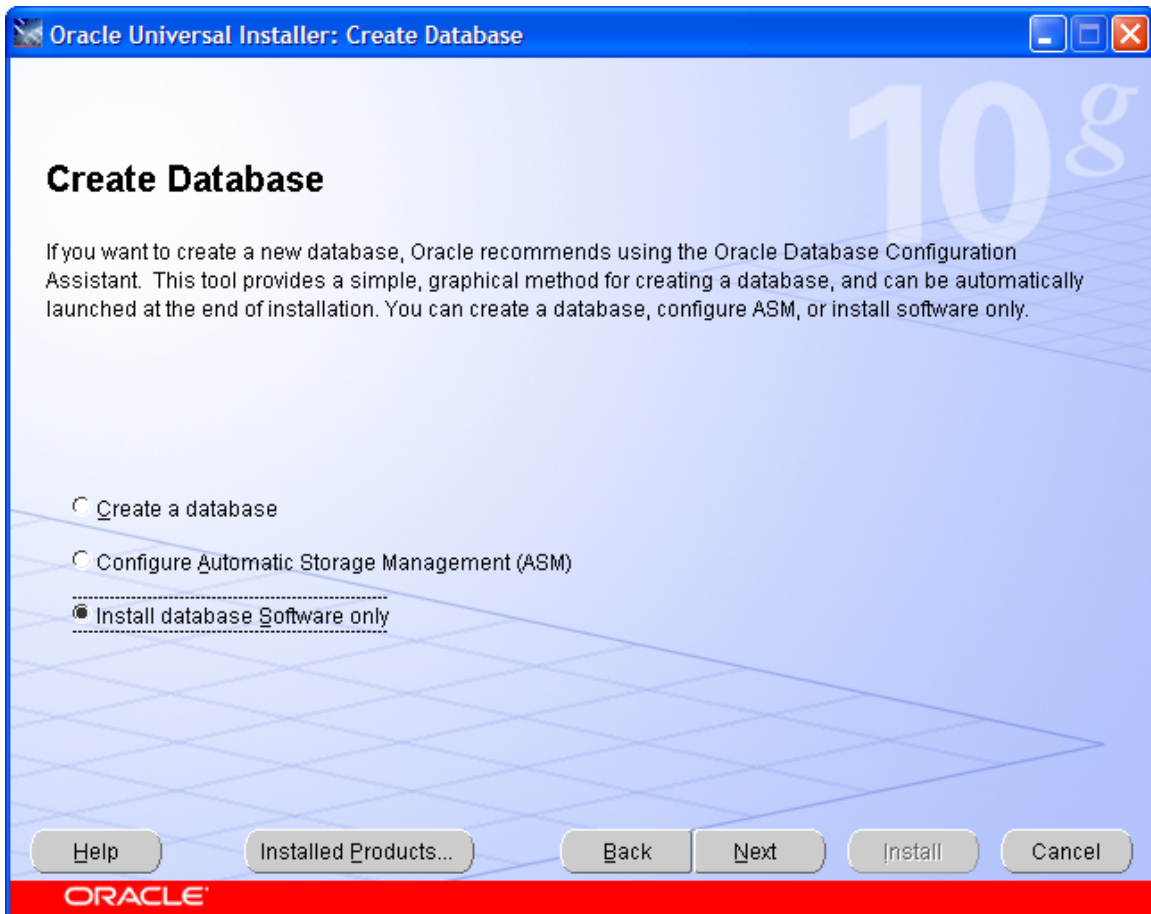
ODAC 10.2.0.2.20

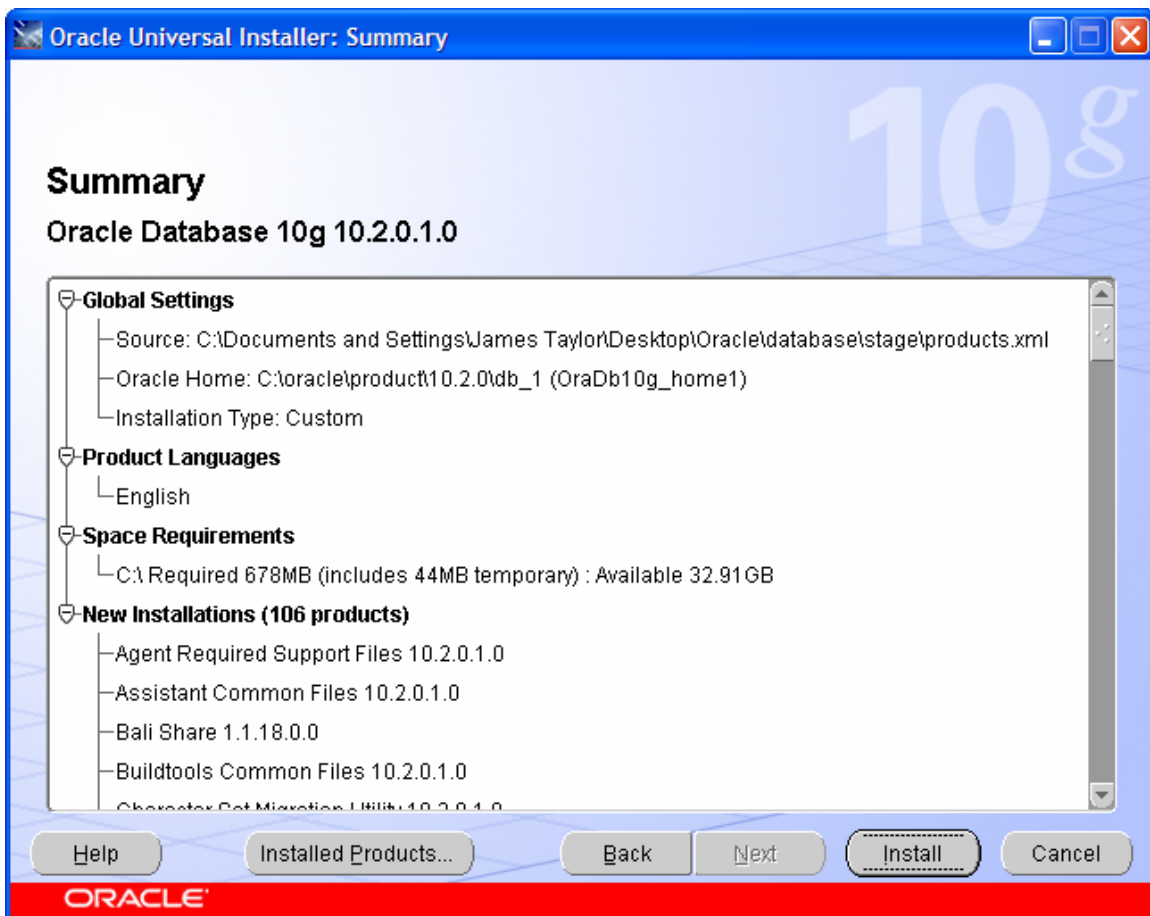
- Includes support for ADO.NET 2.0 and .NET Stored Procedures for .NET 2.0

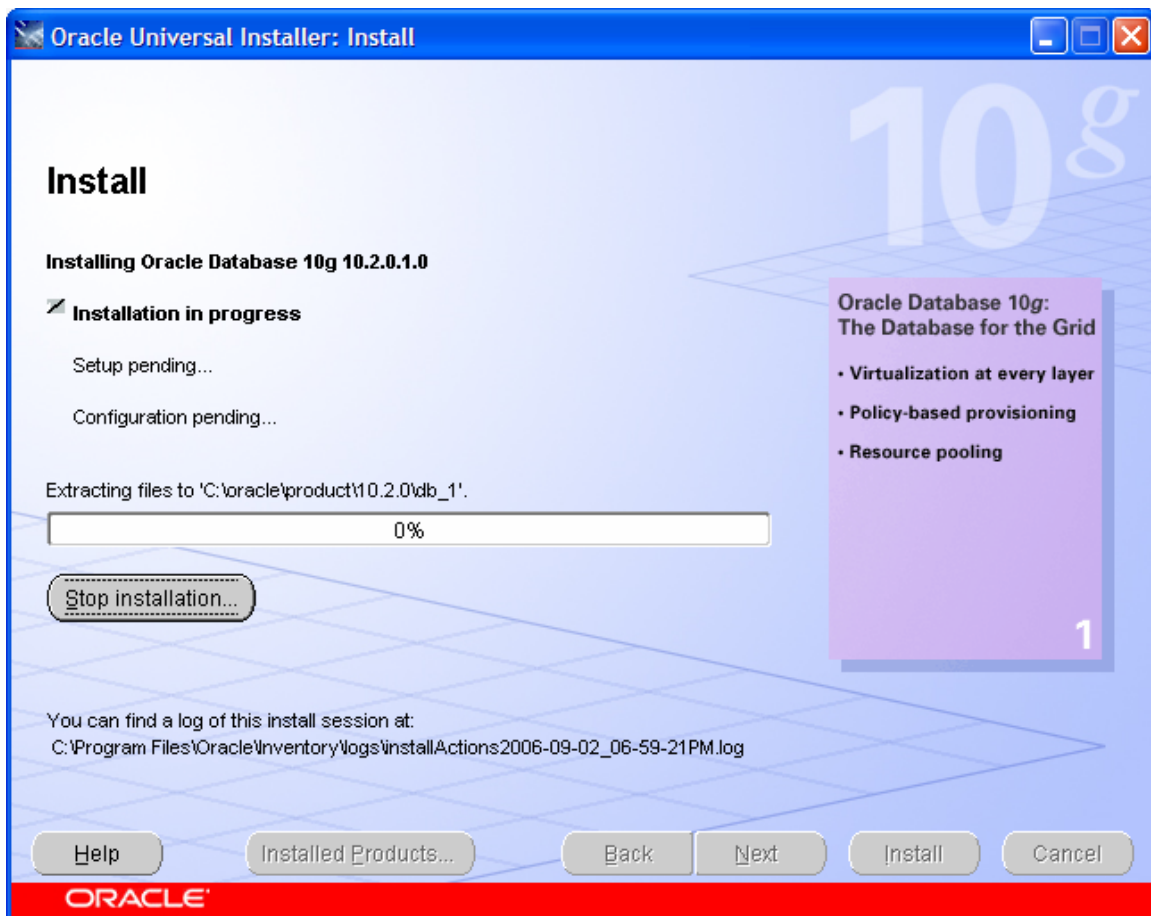
Download Includes

Same as above, but without Oracle Developer Tools for Visual Studio .NET

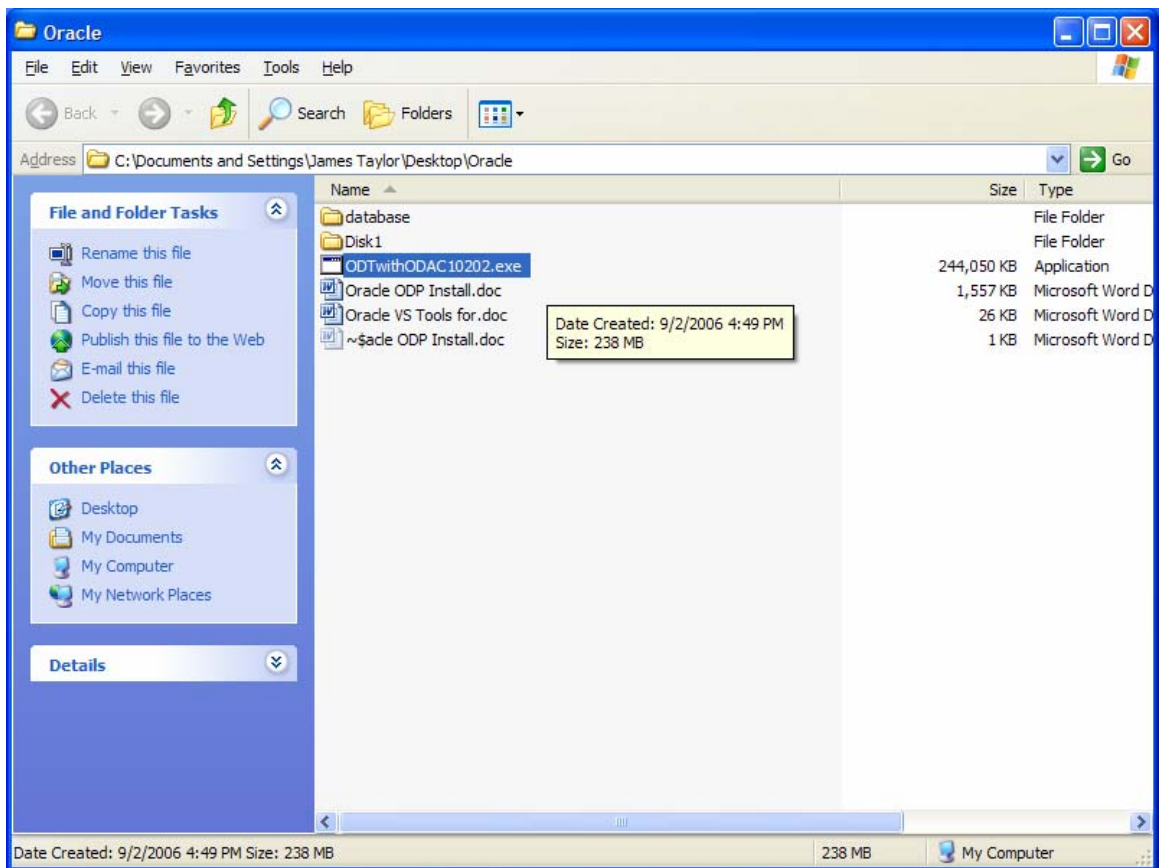






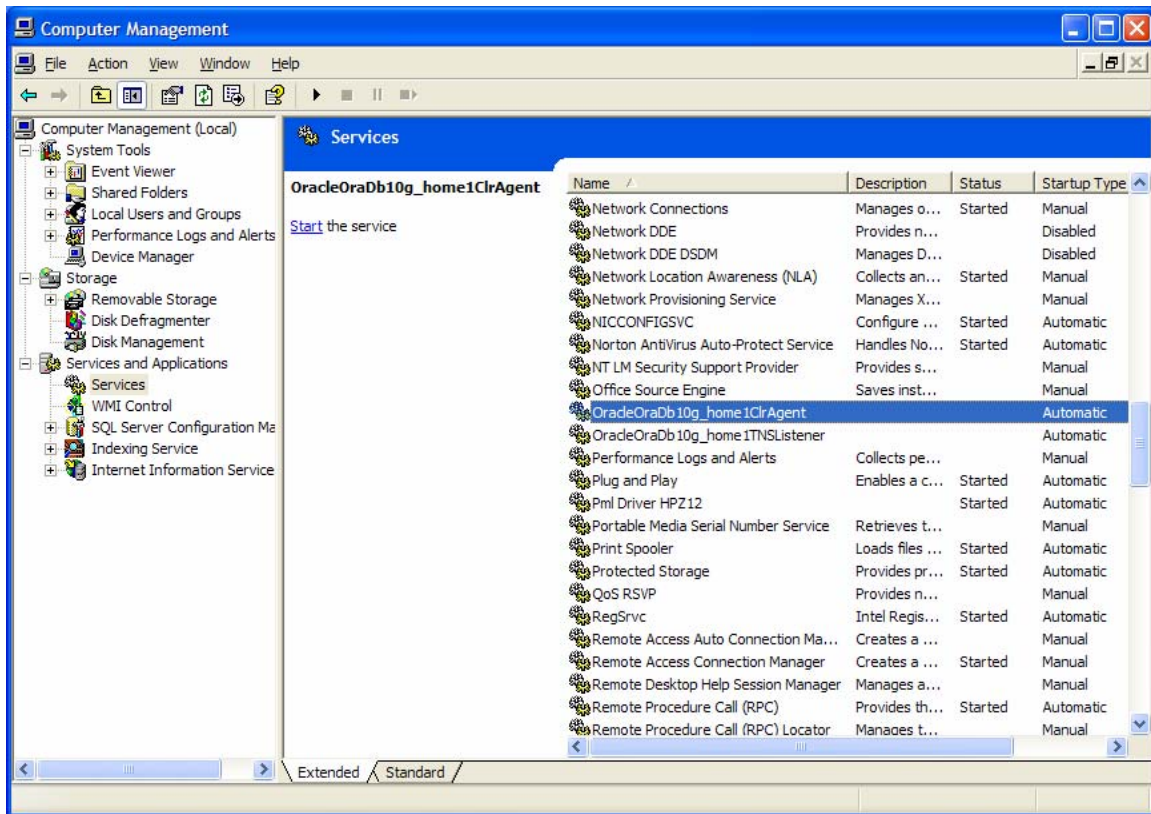


Once installation ends, go to Windows Services. You should see an OracleOraDb10g_homeClrAgent.

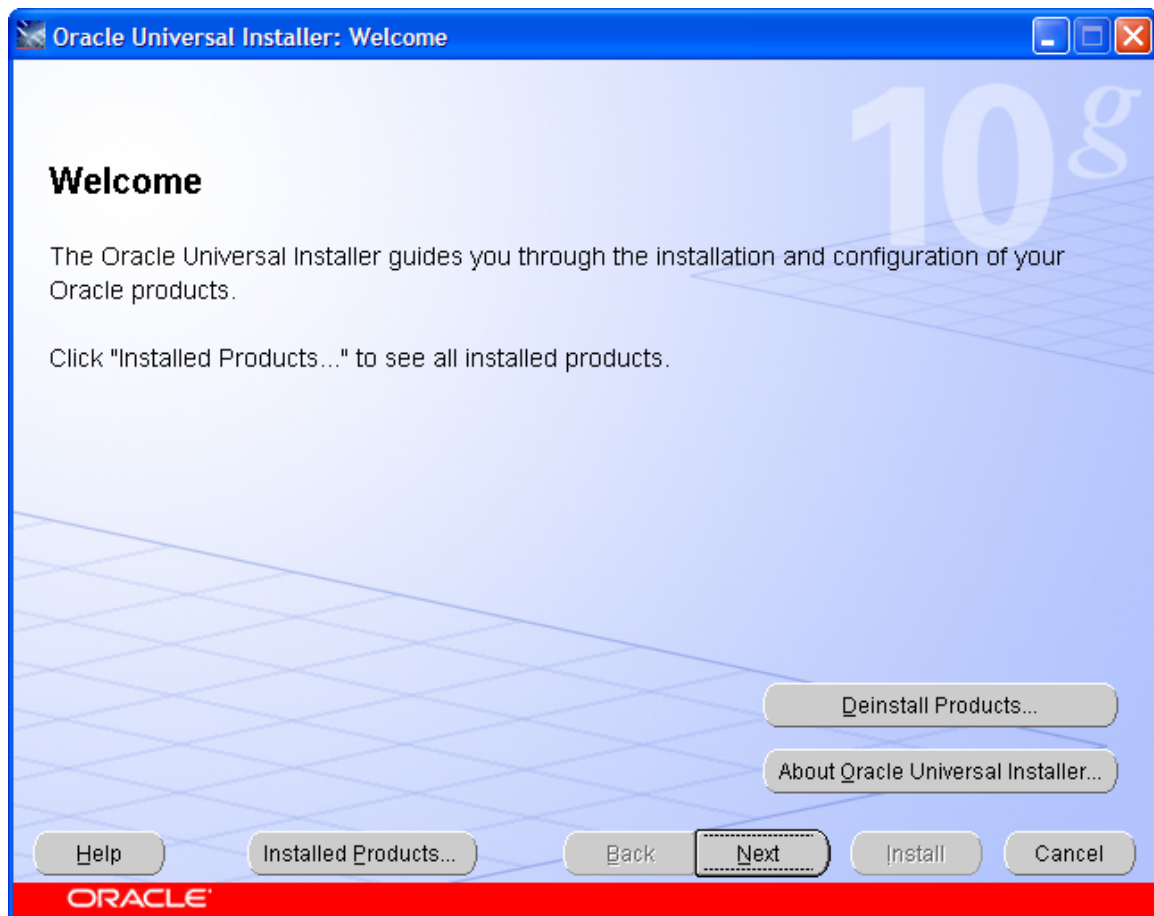


It will extract into a folder called stage in the same directory.

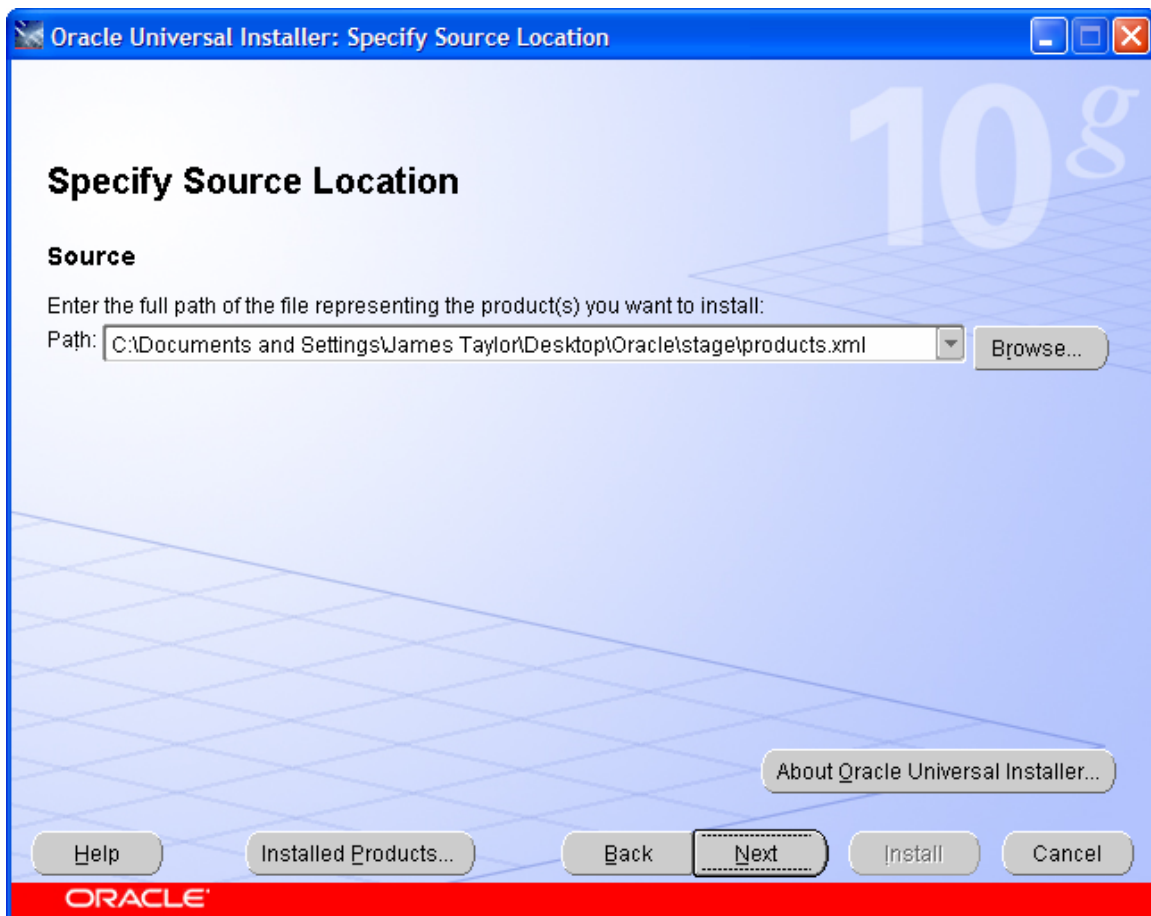
Next, stop both Oracle services.



Then start the Oracle Universal Installer from Oracle Installation Products in your start menu.



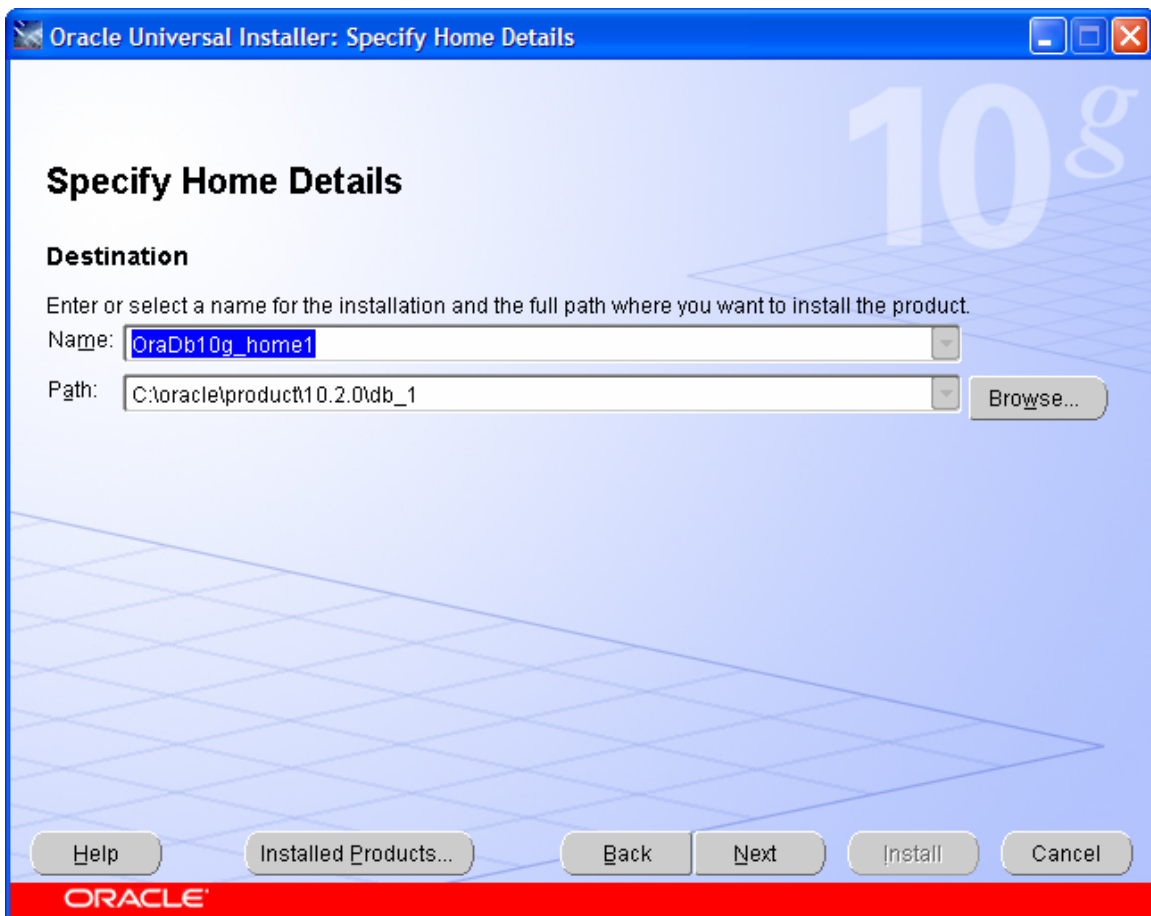
Click Next.

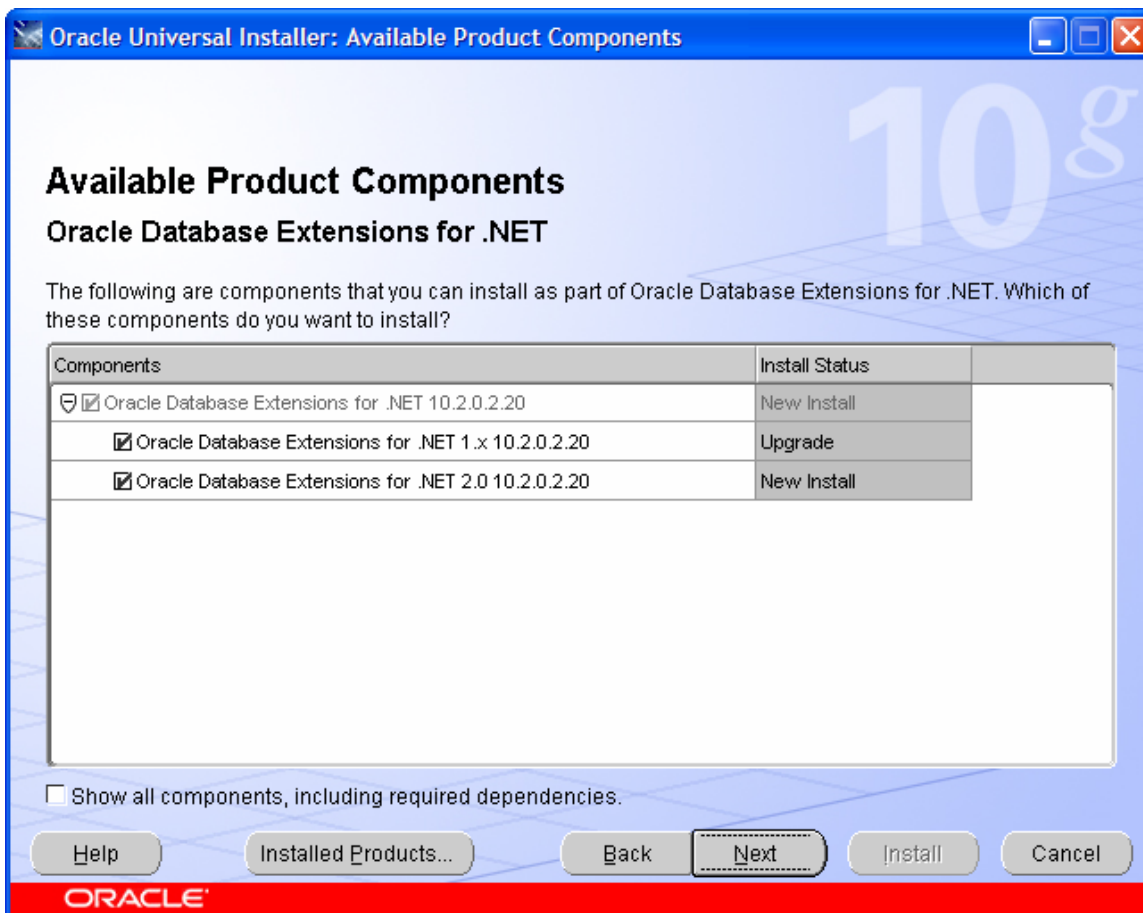


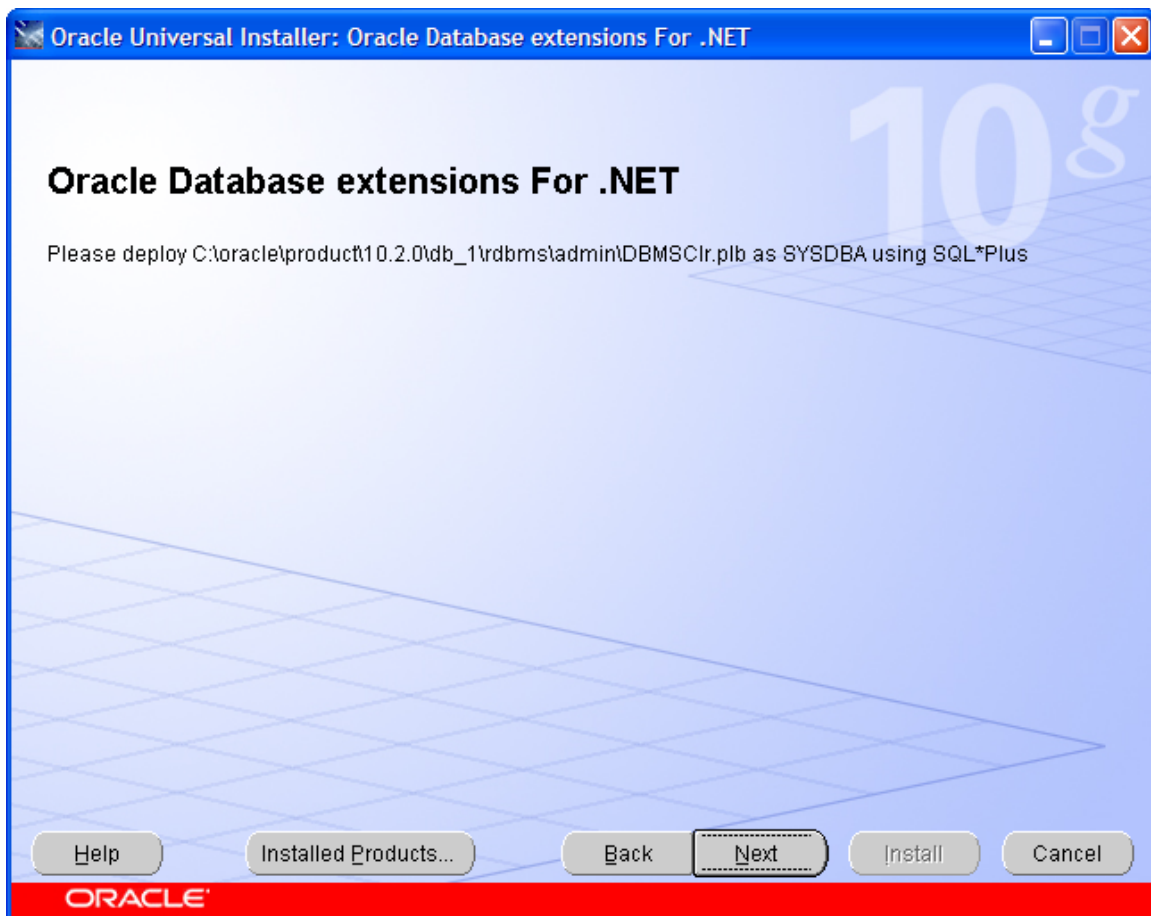
Click browse and navigate to the folder where your products.xml is, which will be in the stage folder you just created from your ODP extract.



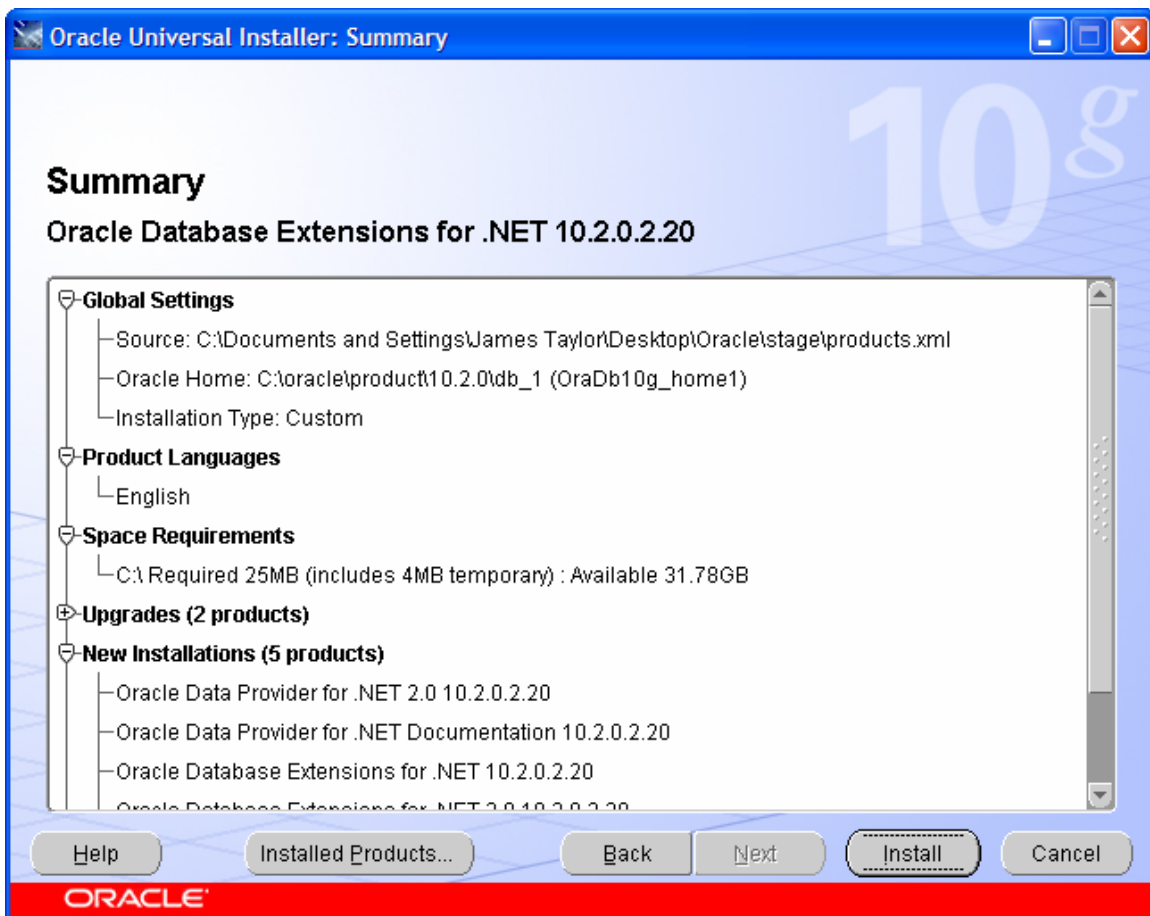
Install the Oracle Database Extensions for .NET 10.2.0.2.20 in the EXISTING Oracle Home.

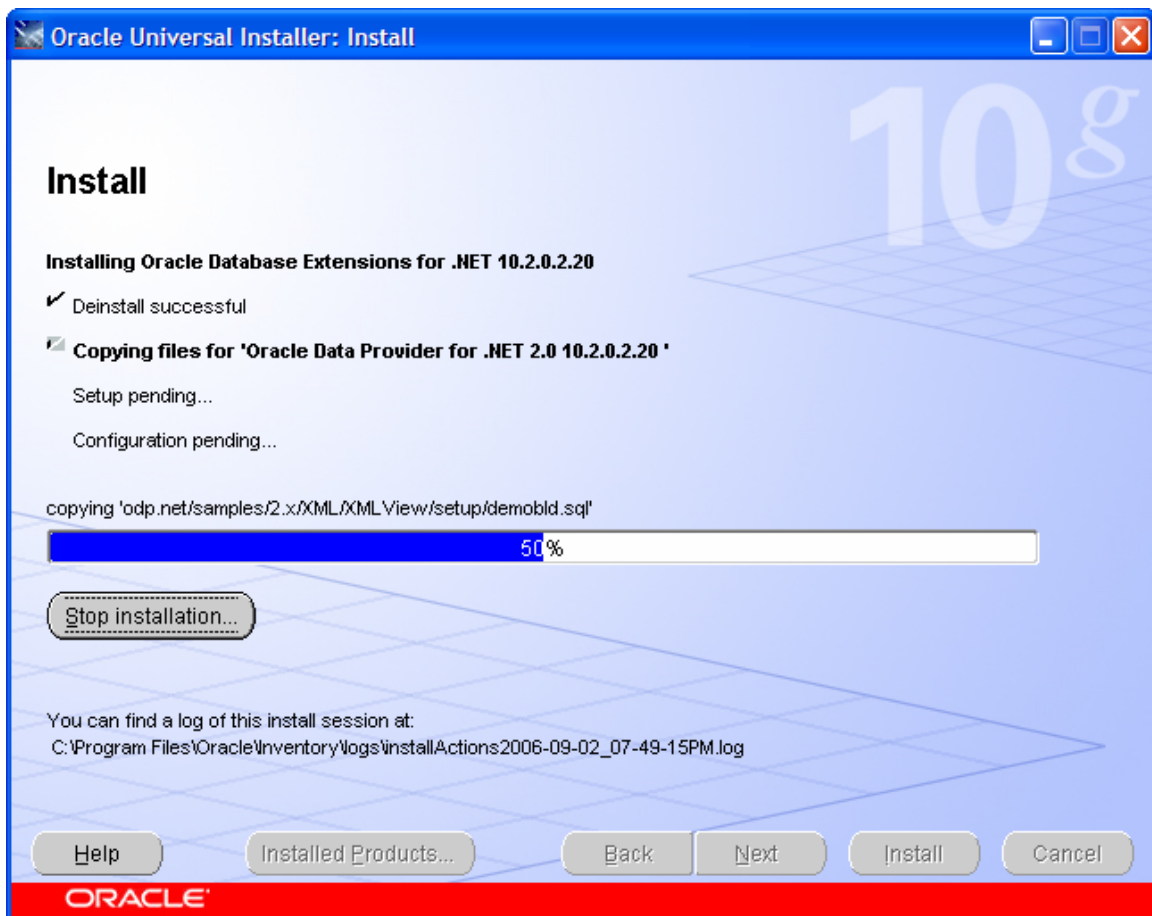




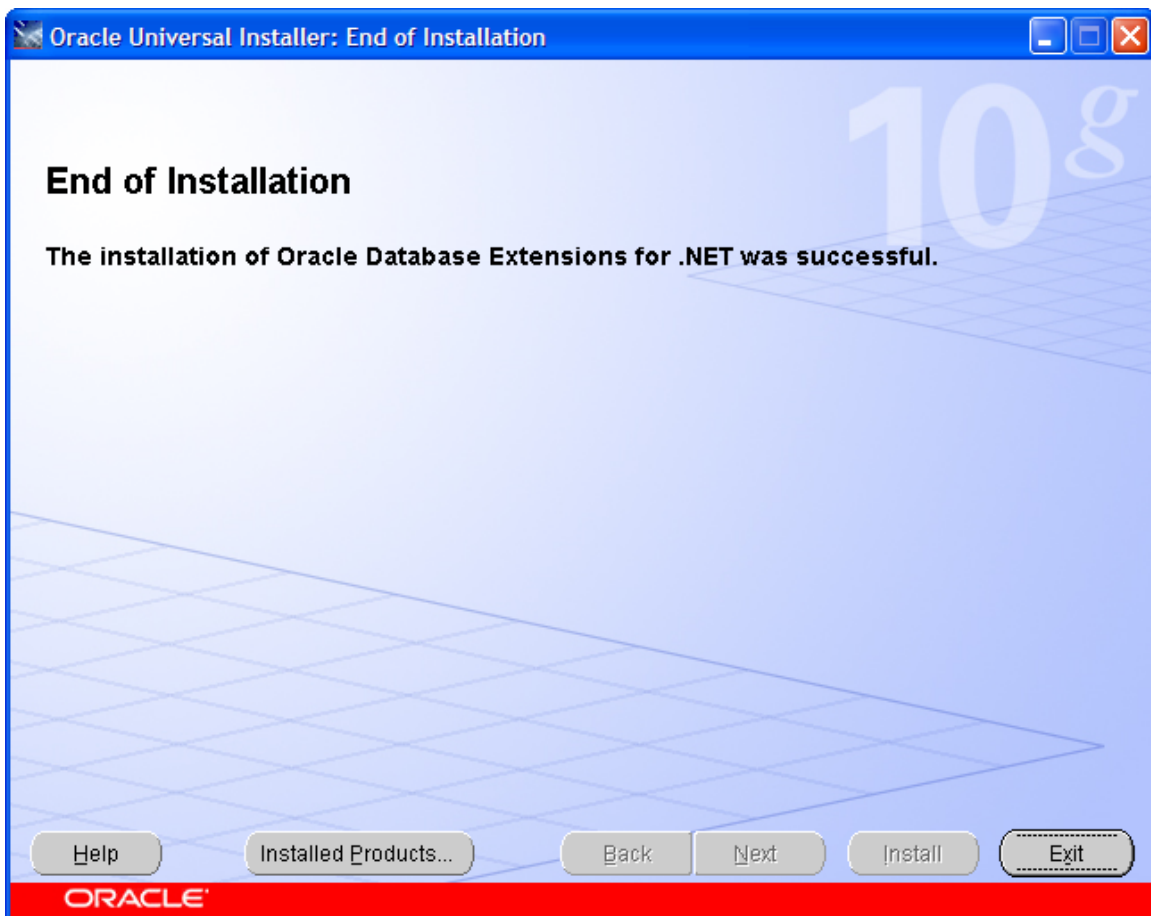


Run the following script in your database as SYSDBA. We have not created our database yet, but after we create it, we will run the script. This will allow the database to invoke the Oracle CLR Agent service to run a .NET stored procedure.



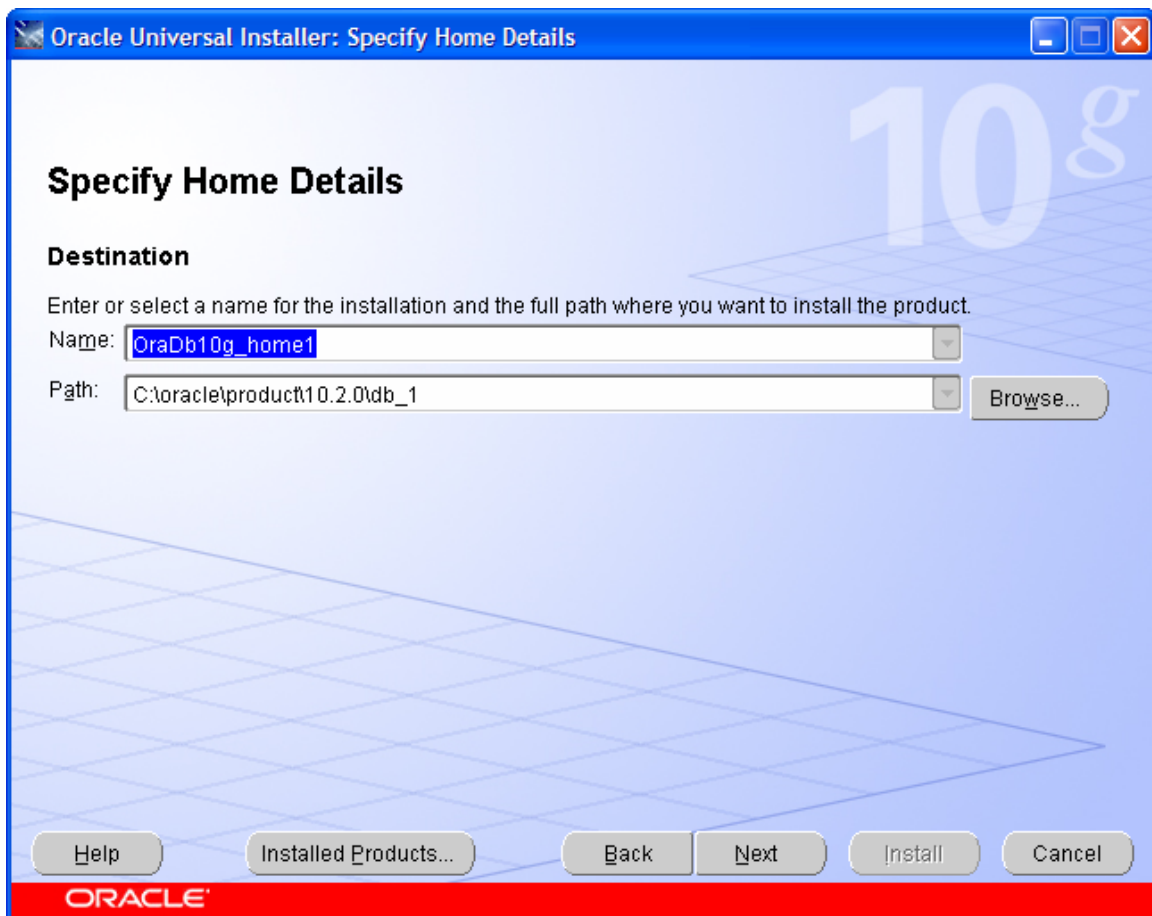


Please be patient as it could sit at 0% for a few minutes before actually taking off.

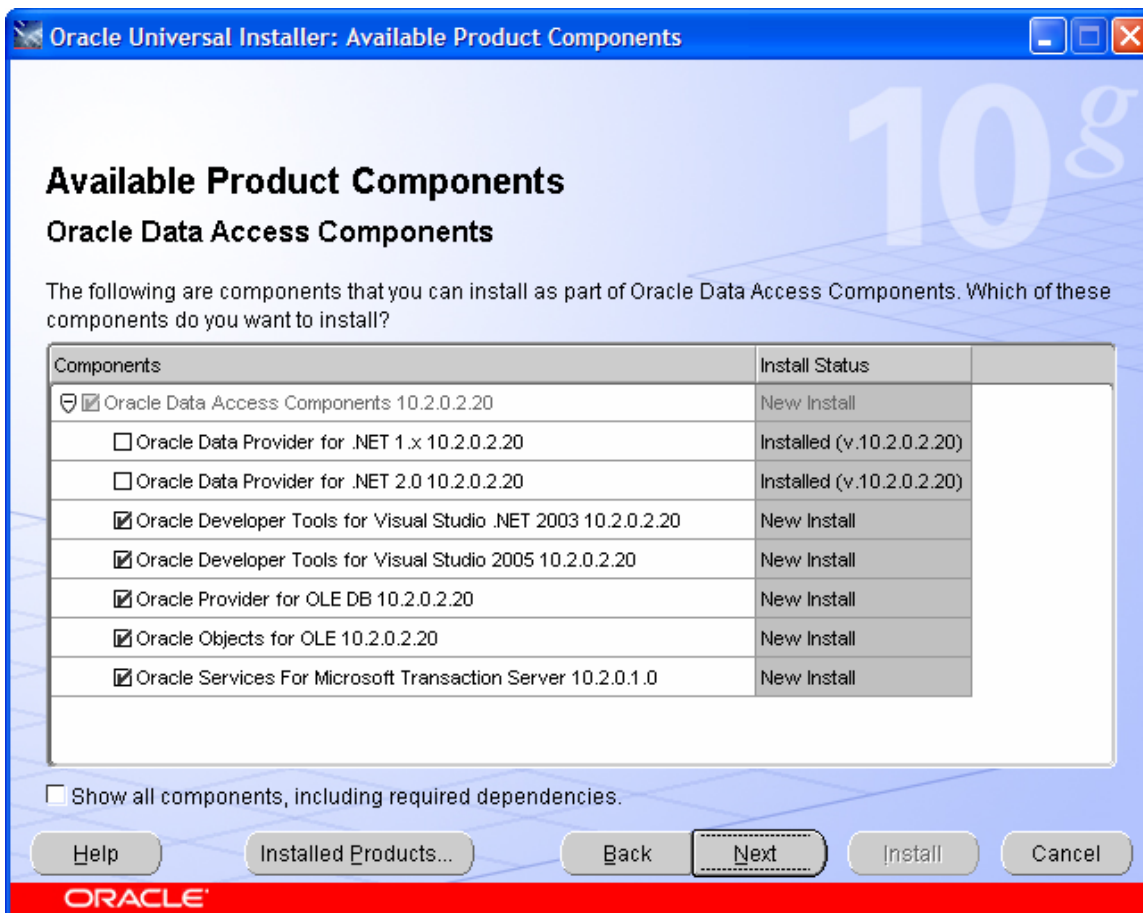


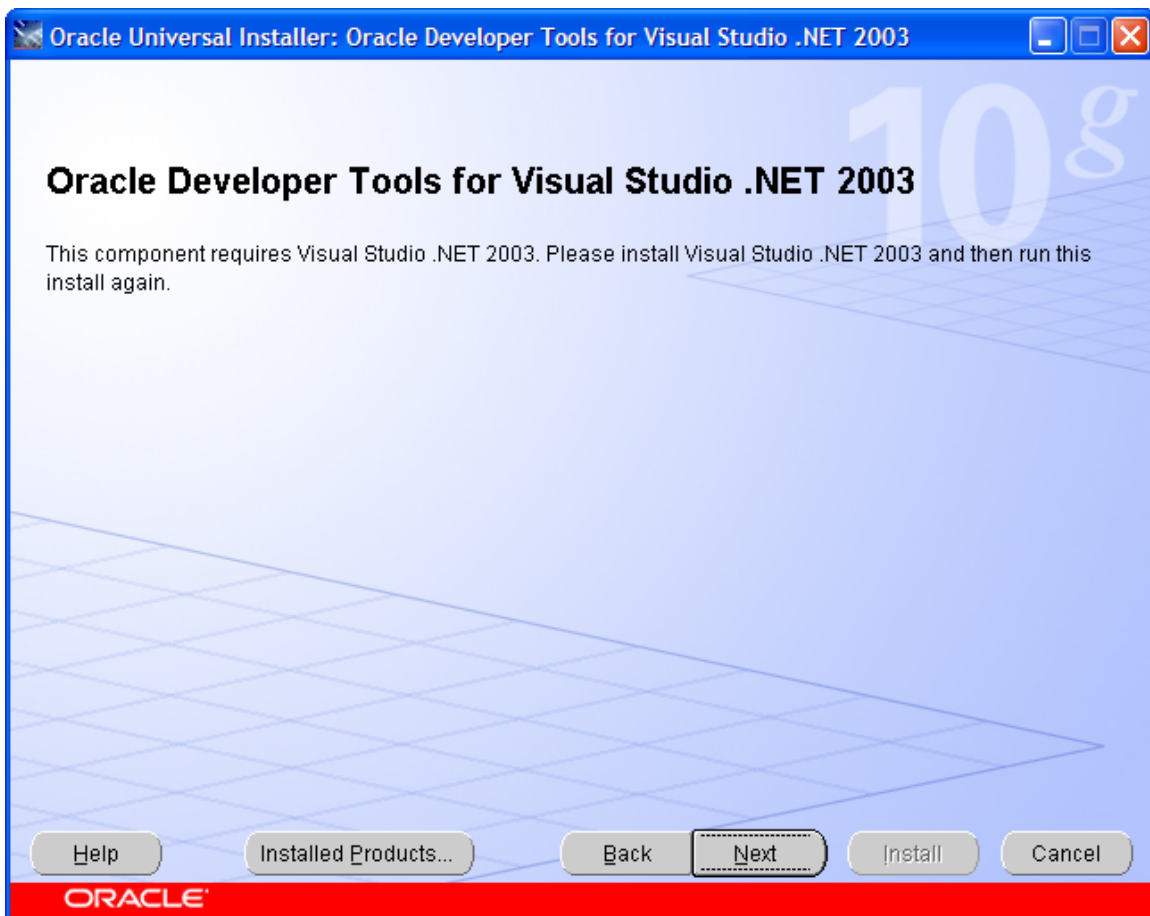


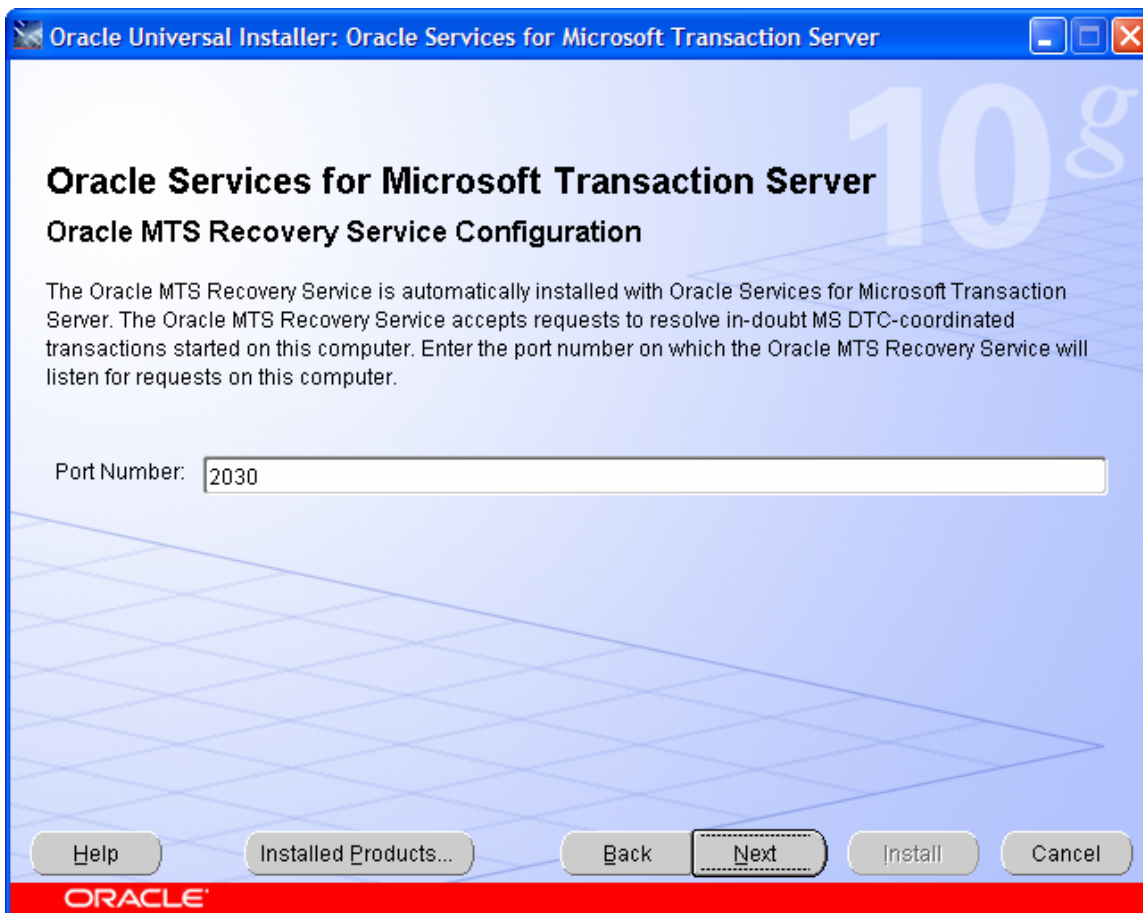
Now install the Oracle Data Access Components 10.2.0.2.20

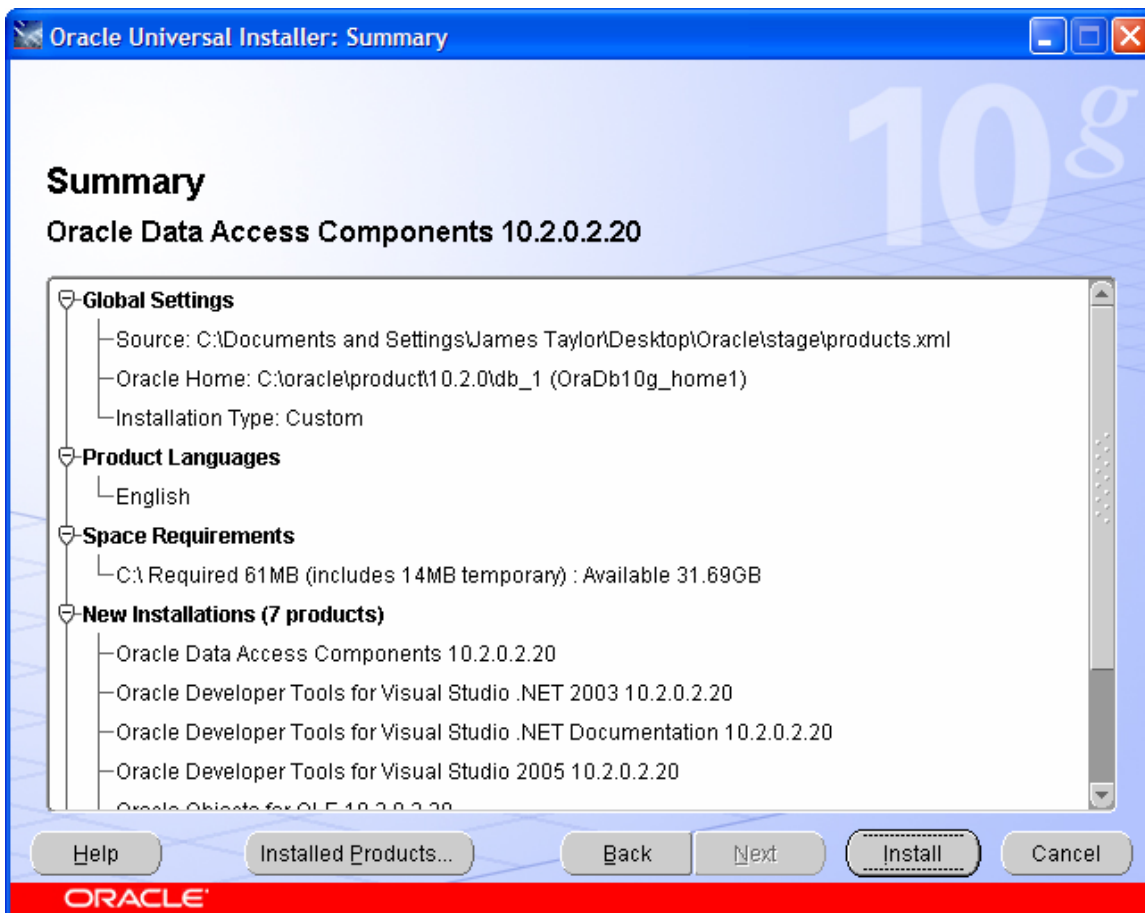


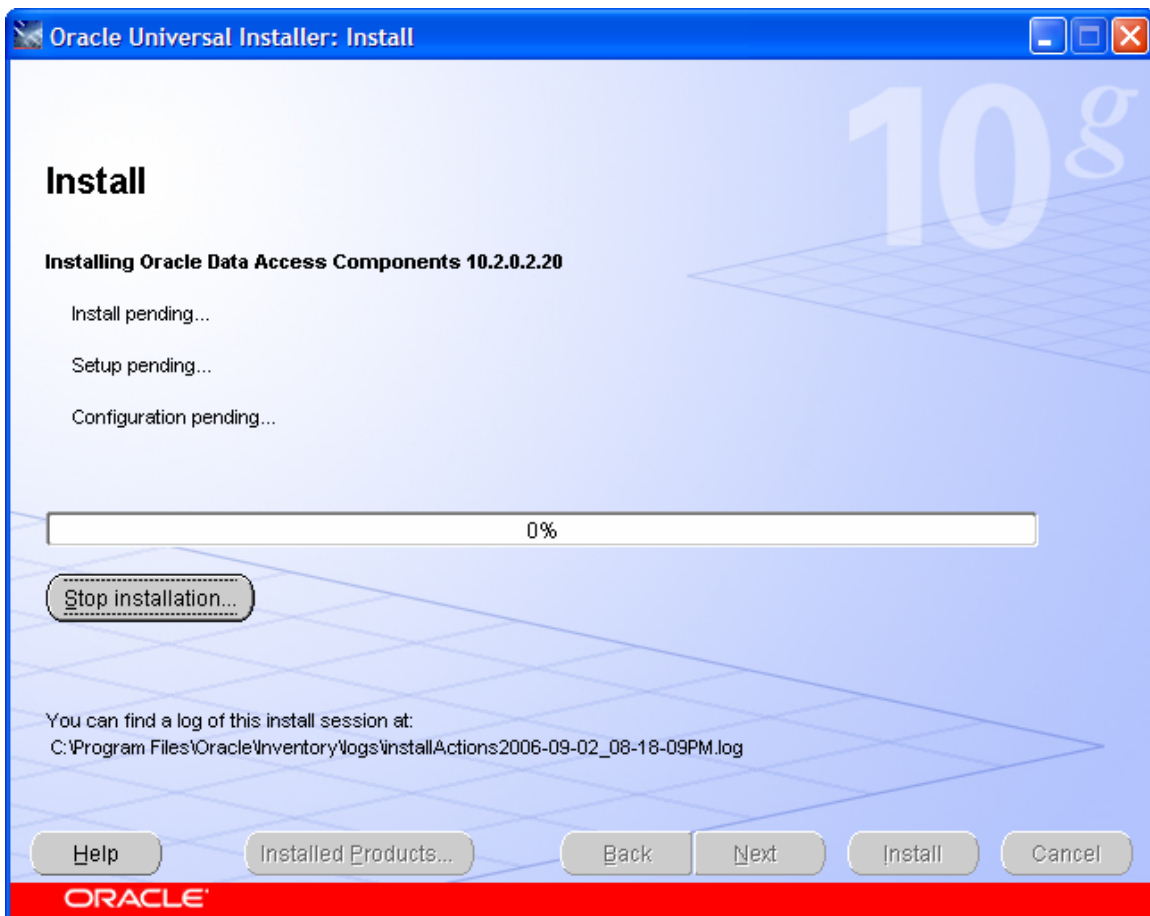
Select the Oracle 10g Home. If 8i or 9i, then select it's own home.

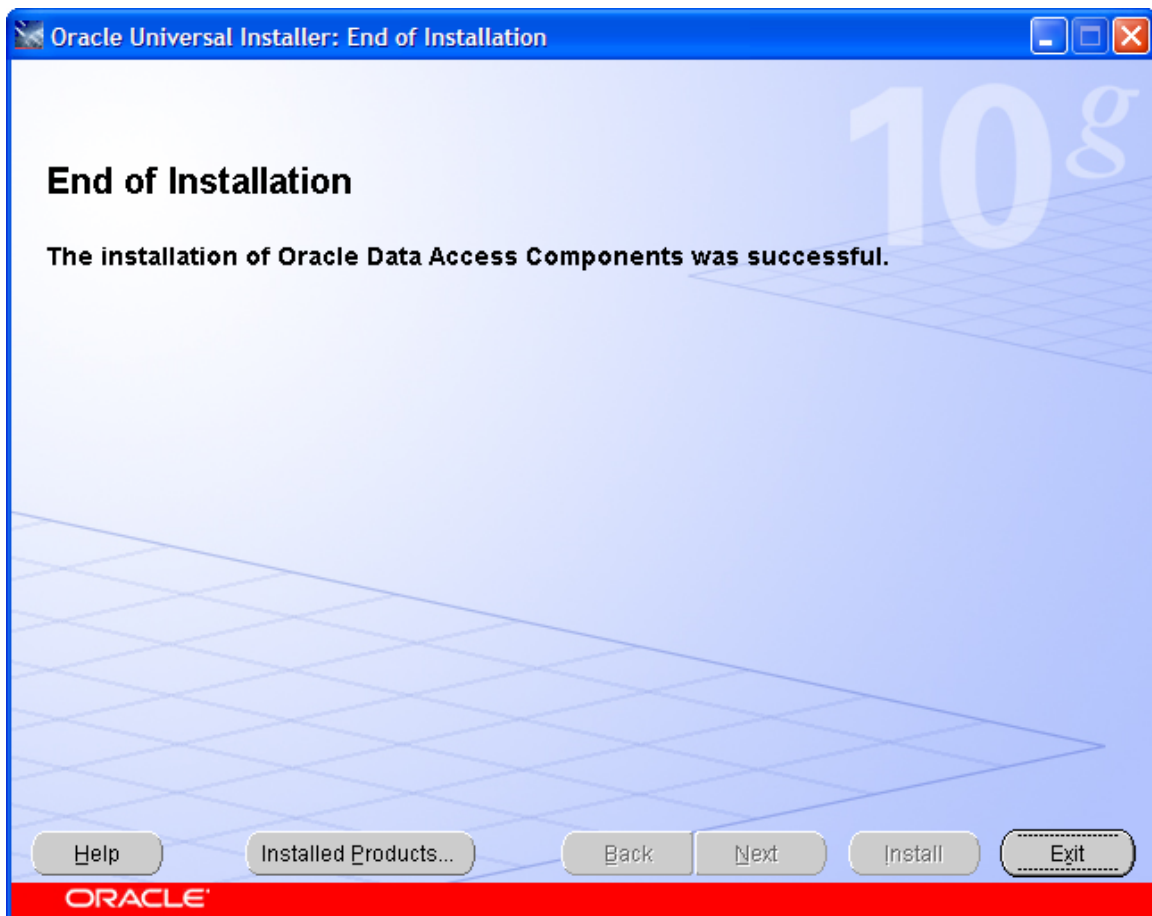






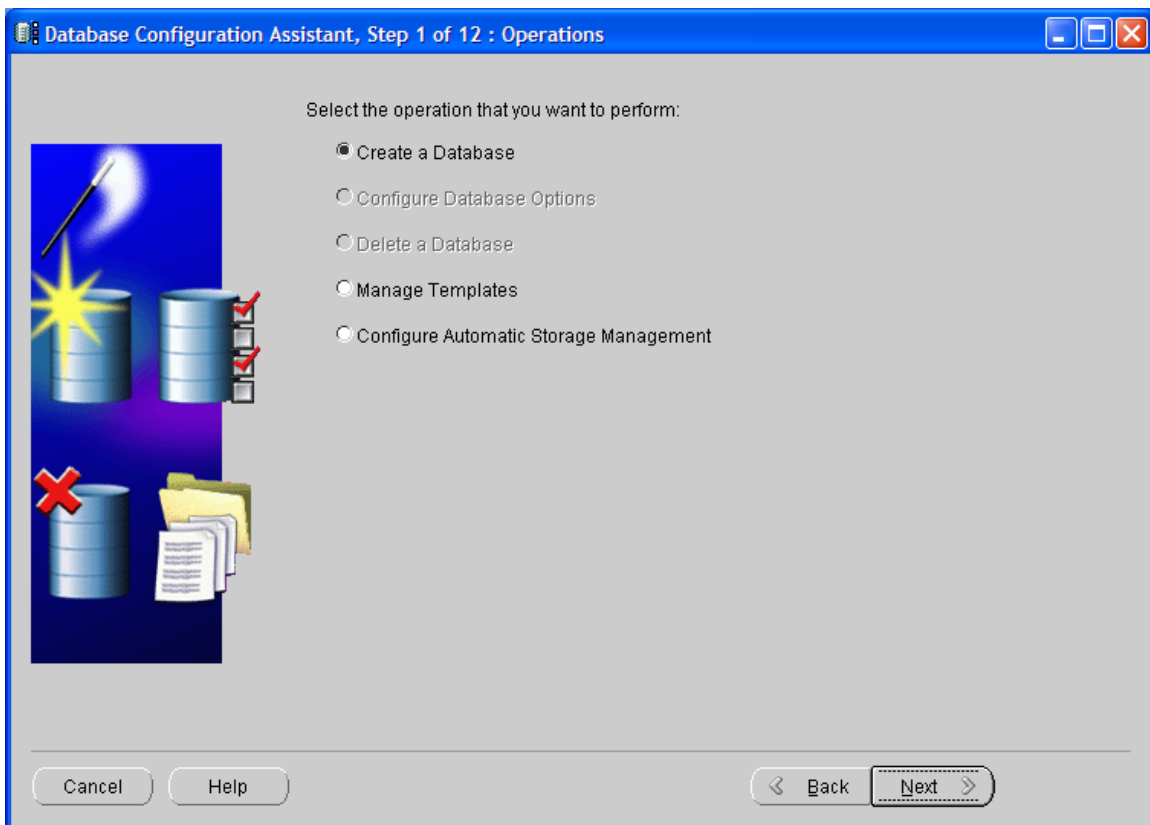
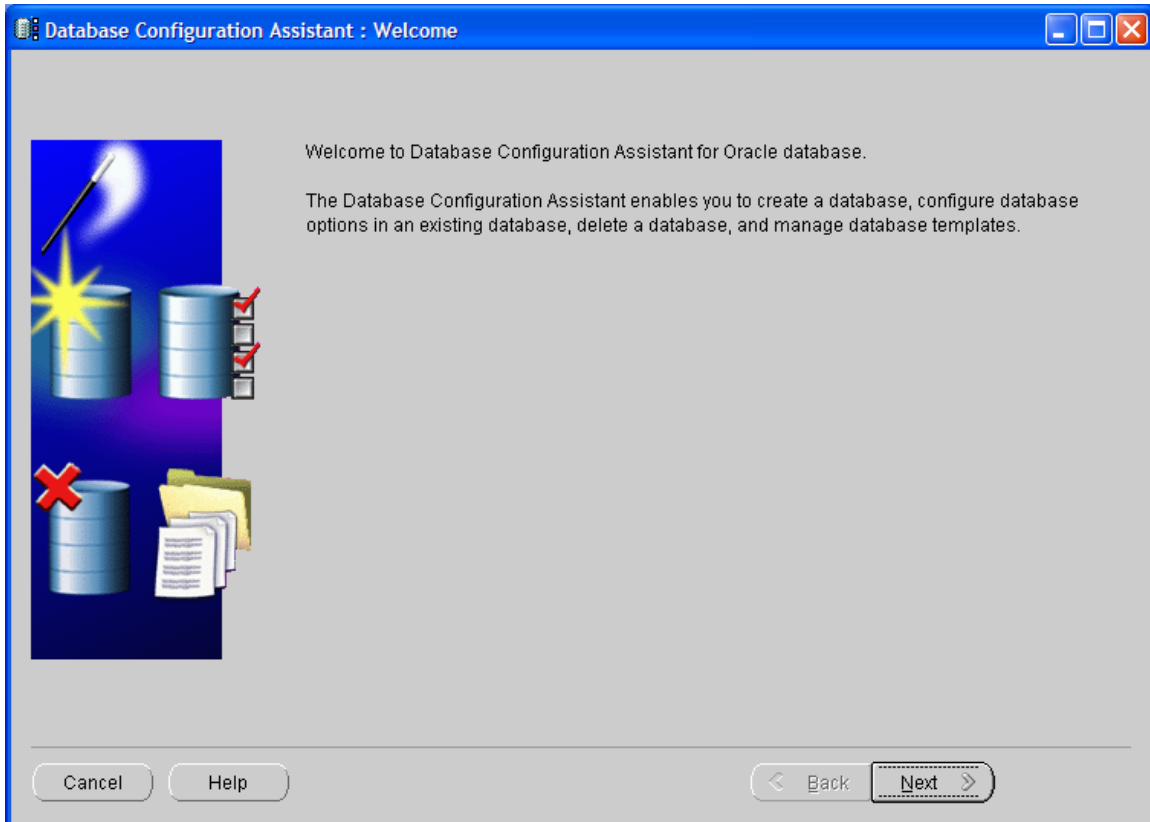




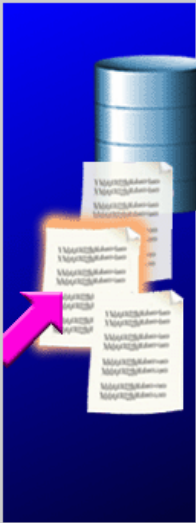


Now restart your listener and your clagent in Windows Services.

Oracle Database Configuration



Database Configuration Assistant, Step 2 of 12 : Database Templates



Select a template from the following list to create a database:

Select	Template	Includes Datafiles
<input checked="" type="radio"/>	Custom Database	No
<input type="radio"/>	Data Warehouse	Yes
<input type="radio"/>	General Purpose	Yes
<input type="radio"/>	Transaction Processing	Yes

Show Details...


Cancel

Help

Back

Next

Database Configuration Assistant, Step 3 of 12 : Database Identification



An Oracle database is uniquely identified by a Global Database Name, typically of the form "name.domain".

Global Database Name:

A database is referenced by at least one Oracle instance which is uniquely identified from any other instance on this computer by an Oracle System Identifier (SID).

SID:

Cancel

Help

Back

Next

Database Configuration Assistant, Step 4 of 12 : Management Options

Each Oracle database may be managed centrally using the Oracle Enterprise Manager Grid Control or locally using the Oracle Enterprise Manager Database Control. Choose the management option that you would like to use to manage this database.

☒ **Configure the Database with Enterprise Manager**

☐ Use Grid Control for Database Management

Management Service:

☒ **Use Database Control for Database Management**

☐ **Enable Email Notifications**

Outgoing Mail (SMTP) Server:

Email Address:

☐ **Enable Daily Backup**

Backup Start Time: ☒ AM ☐ PM

OS Username:

Password:

Cancel Help Back Next

Database Configuration Assistant, Step 5 of 12 : Database Credentials

For security reasons, you must specify passwords for the following user accounts in the new database.

☒ **Use the Same Password for All Accounts**

Password:

Confirm Password:

☐ **Use Different Passwords**

User Name	Password	Confirm Password
SYS		
SYSTEM		
DBSNMP		
SYSMAN		

Cancel Help Back Next

Database Configuration Assistant, Step 6 of 12 : Storage Options

Select the storage mechanism you would like to use for the database.

☒ **File System**
Use the File System for Database storage.

☐ **Automatic Storage Management (ASM)**
Automatic Storage Management simplifies database storage administration and optimizes database layout for I/O performance. To use this option you must either specify a set of disks to create an ASM disk group or specify an existing ASM disk group.

☐ **Raw Devices**
Raw partitions or volumes can provide the required shared storage for Real Application Clusters (RAC) databases if you do not use Automatic Storage Management and a Cluster File System is not available. You need to have created one raw device for each datafile, control file, and log file you are planning to create in the database.

☐ Specify Raw Devices Mapping File


Database Configuration Assistant, Step 7 of 12 : Database File Locations

Specify locations for the Database files to be created:

☒ **Use Database File Locations from Template**

☐ **Use Common Location for All Database Files**
Database Files Location:

☐ **Use Oracle-Managed Files**
Database Area:

 If you want to specify different locations for any database files, pick either of the above options and use the Storage page to specify each location.

Database Configuration Assistant, Step 8 of 12 : Recovery Configuration

Choose the recovery options for the database:

☒ **Specify Flash Recovery Area**

This is used as the default for all backup and recovery operations, and is also required for automatic backup using Enterprise Manager. Oracle recommends that the database files and recovery files be located on physically different disks for data protection and performance.

Flash Recovery Area:

Flash Recovery Area Size:

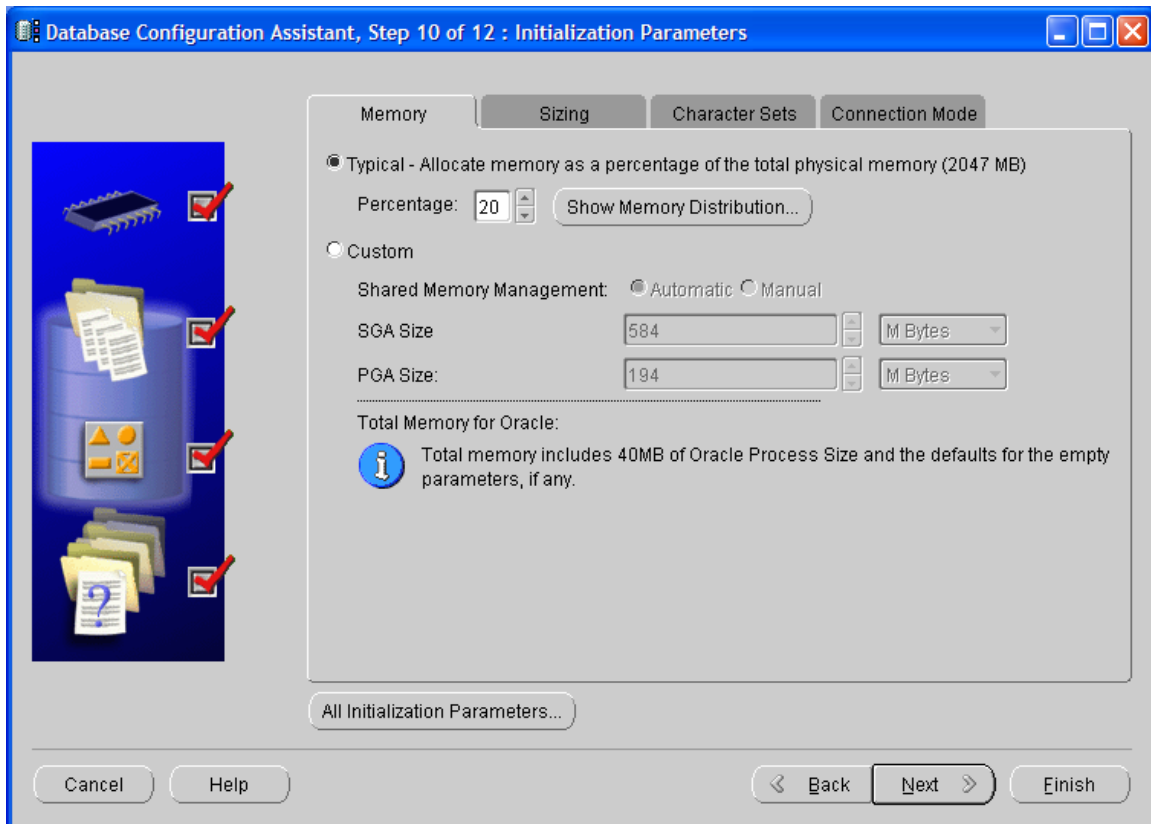
☐ **Enable Archiving**

Database Configuration Assistant, Step 9 of 12 : Database Content

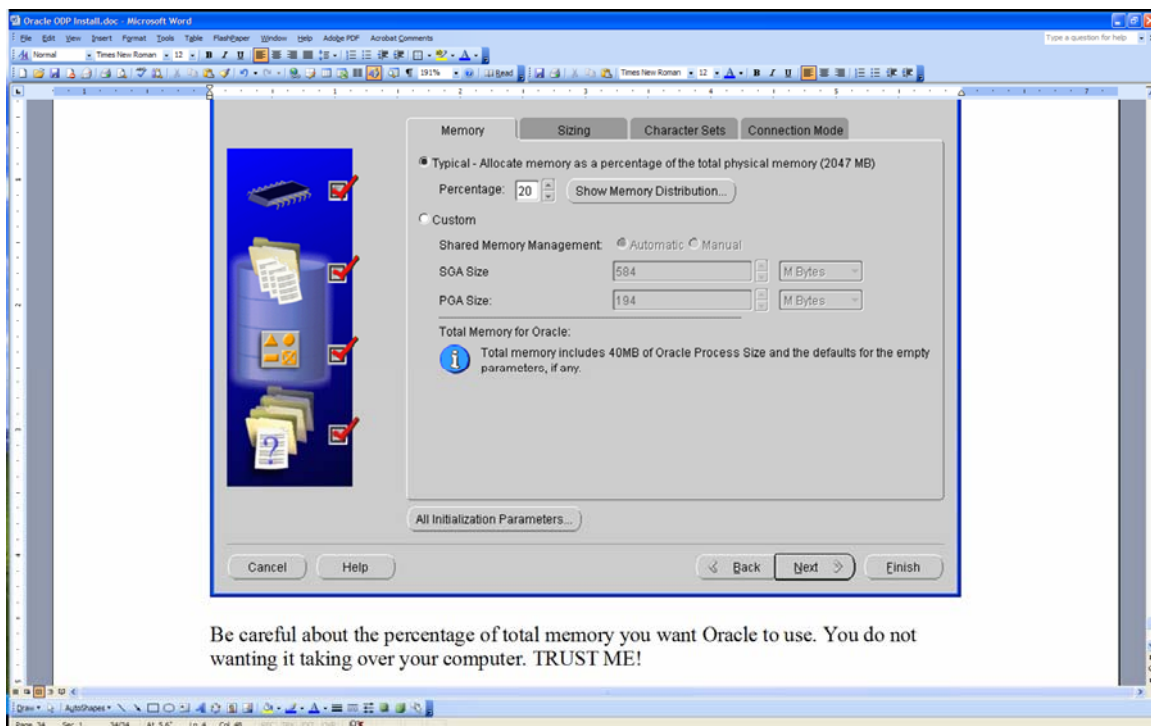
Database Components **Custom Scripts**

Select the components you want to configure for use in your database. Provide the tablespace in which you want the component to reside. Components which appear disabled are either not installed or depend on components which are not selected.

<input checked="" type="checkbox"/> Oracle Data Mining	<input type="text" value="SYSAUX"/>
<input checked="" type="checkbox"/> Oracle Text	<input type="text" value="SYSAUX"/>
<input checked="" type="checkbox"/> Oracle OLAP	<input type="text" value="SYSAUX"/>
<input checked="" type="checkbox"/> Oracle Spatial	<input type="text" value="SYSAUX"/>
<input type="checkbox"/> Oracle Ultra Search	<input type="text" value="SYSAUX"/>
<input type="checkbox"/> Oracle Label Security	<input type="text" value="SYSTEM"/>
<input type="checkbox"/> Sample Schemas	<input type="text" value="SYSAUX"/>
<input checked="" type="checkbox"/> Enterprise Manager Repository	<input type="text" value="SYSAUX"/>
<input checked="" type="checkbox"/> Oracle Database Extensions for .NET	<input type="text" value="SYSAUX"/>



Be careful about the percentage of total memory you want Oracle to use. You do not want it taking over your computer. TRUST ME!



Database Configuration Assistant, Step 12 of 12 : Creation Options

Select the database creation options:

☒ Create Database


☐ Save as a Database Template

Name:

Description:

☐ Generate Database Creation Scripts

Destination Directory:



Confirmation

The following operations will be performed:
A database called "Oracle10g" will be created.

Database Details:

Custom Database

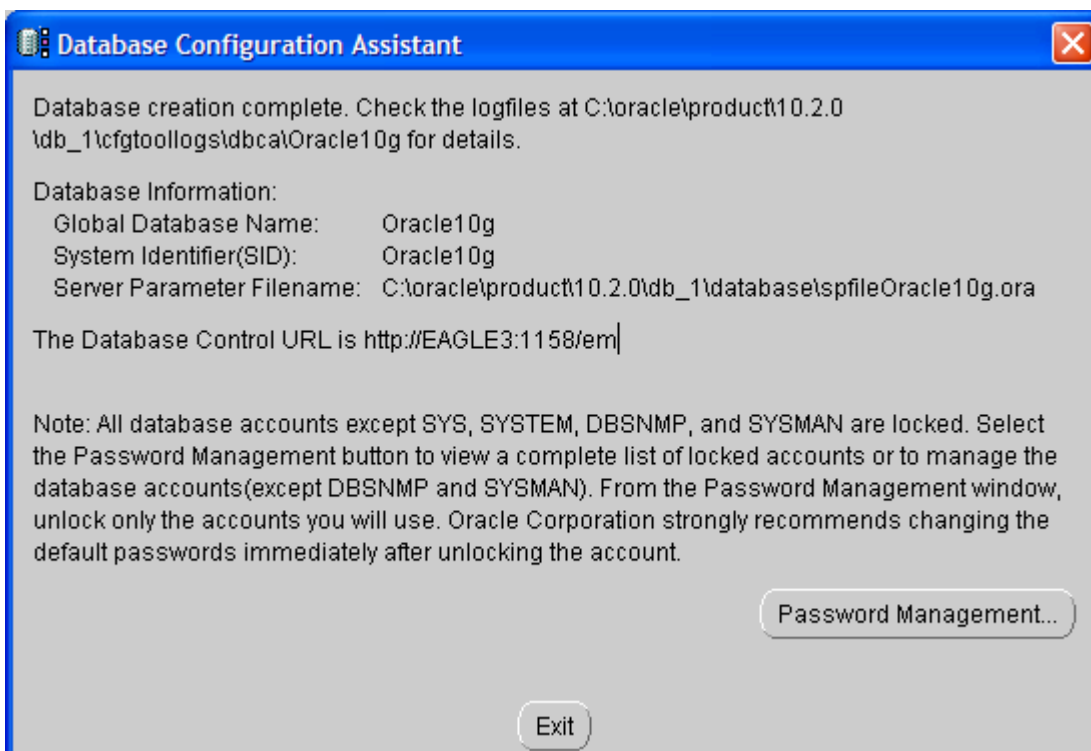
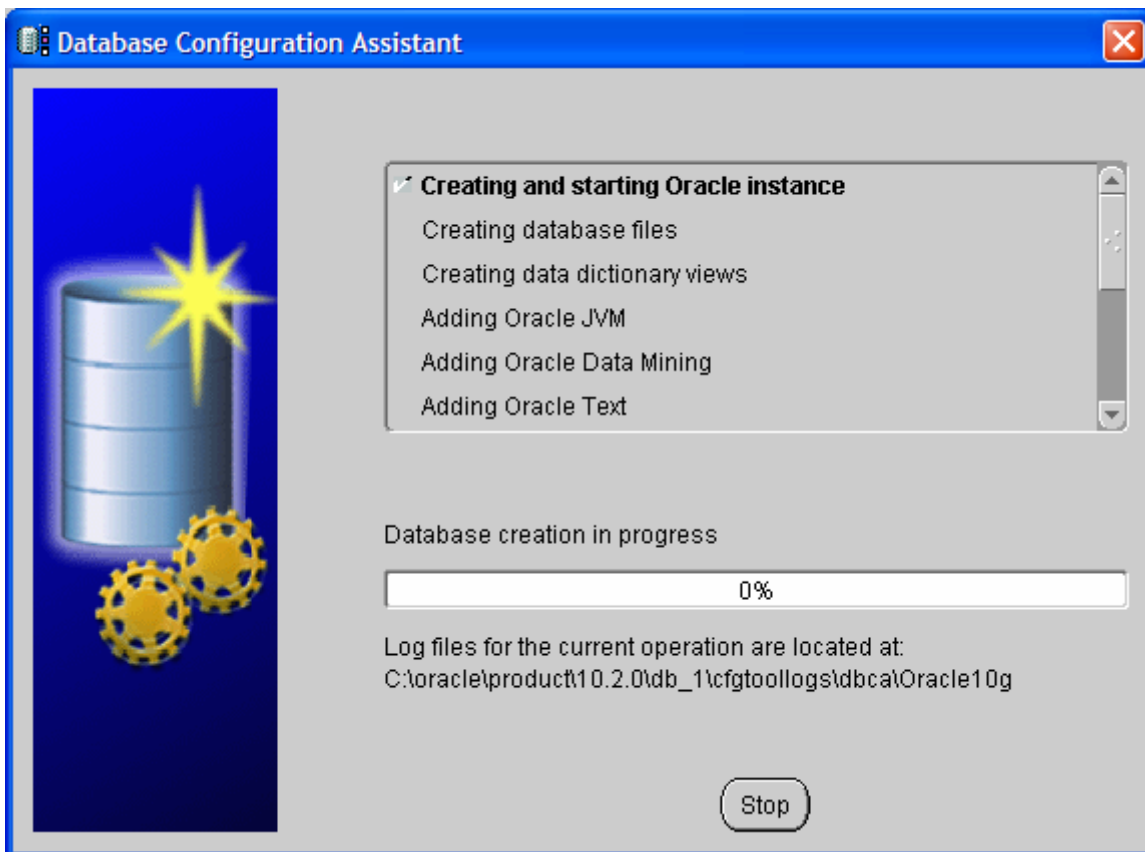
Use this template to create a customized database.

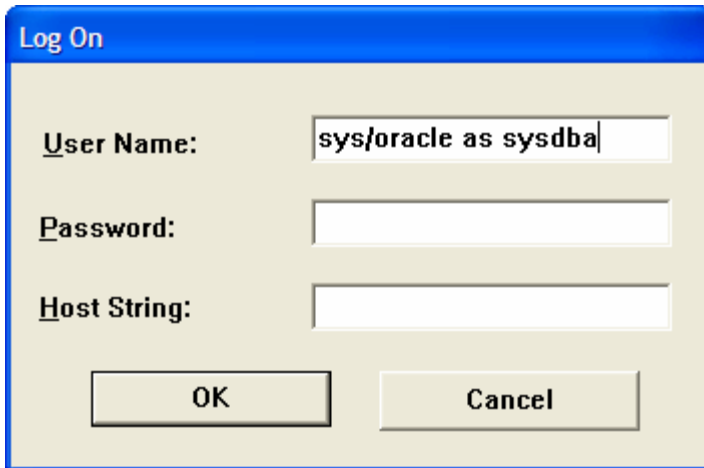
Common Options

Option	Selected
Oracle JVM	true
Oracle Data Mining	true
Oracle Text	true
Oracle XML DB	true
Oracle Intermedia	true
Oracle OLAP	true
Oracle Spatial	true
Oracle Ultra Search	false
Oracle Label Security	false
Sample Schemas	false

Save as an HTML file...

OKCancelHelp





A 'Log On' dialog box with a blue title bar. It contains three input fields: 'User Name:' with the text 'sys/oracle as sysdba', 'Password:', and 'Host String:'. At the bottom are 'OK' and 'Cancel' buttons.

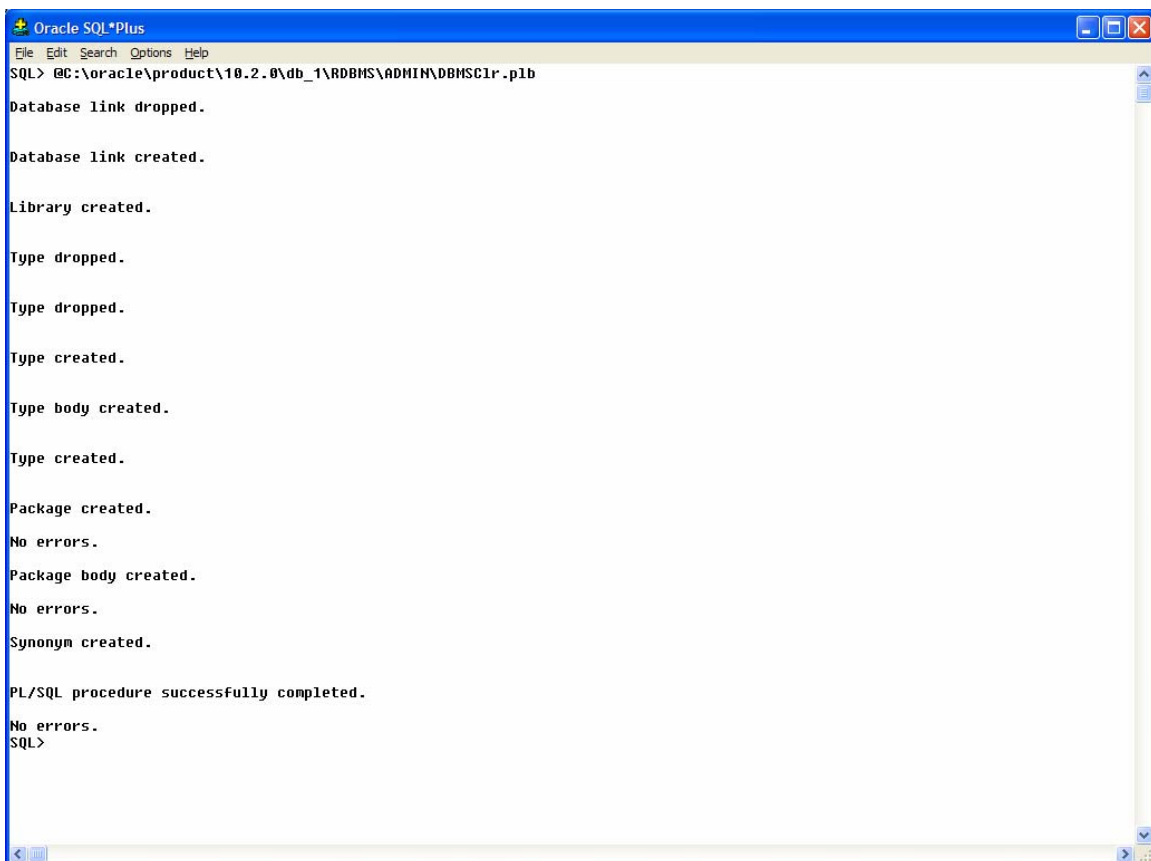
Log On

User Name: sys/oracle as sysdba

Password:

Host String:

OK **Cancel**



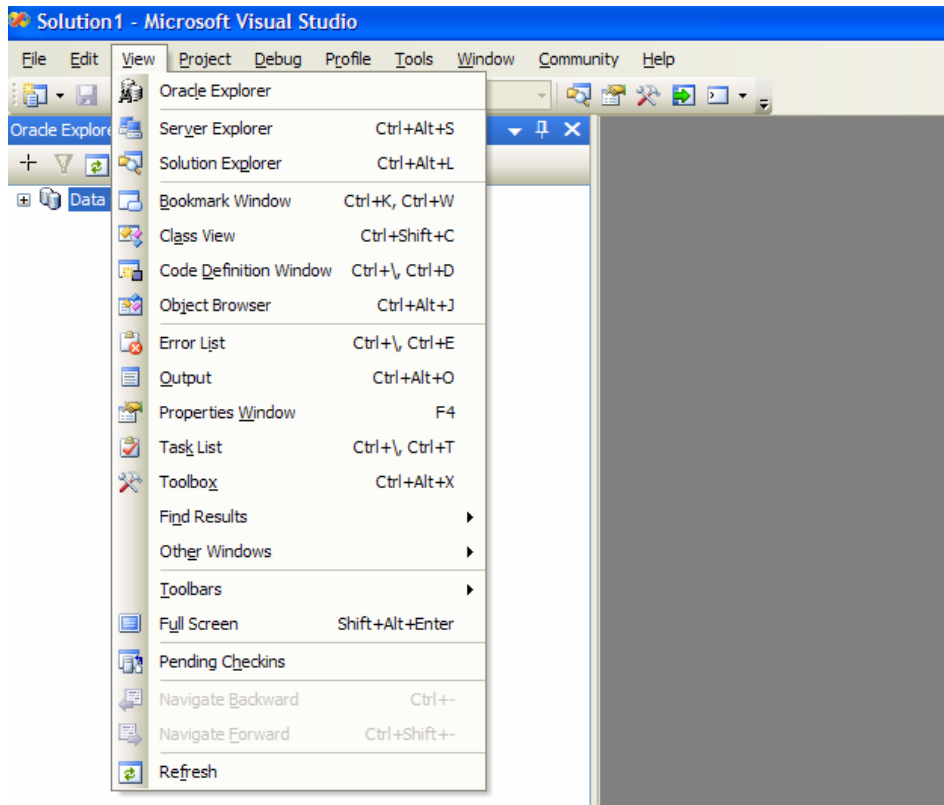
An Oracle SQL*Plus window showing the execution of a script. The window title is 'Oracle SQL*Plus'. The command prompt shows the path '@@:\oracle\product\10.2.0\db_1\RDBMS\ADMIN\DBMSCLr.p1b'. The output shows a series of database operations being performed successfully, including dropping and creating links, libraries, types, packages, and synonyms, followed by a PL/SQL procedure completion.

```
Oracle SQL*Plus
File Edit Search Options Help
SQL> @@:\oracle\product\10.2.0\db_1\RDBMS\ADMIN\DBMSCLr.p1b
Database link dropped.
Database link created.
Library created.
Type dropped.
Type dropped.
Type created.
Type body created.
Type created.
Package created.
No errors.
Package body created.
No errors.
Synonym created.
PL/SQL procedure successfully completed.
No errors.
SQL>
```

You will need to run the script to create the hr schema. To download them, please goto http://krypton.fhda.edu/~lmeade/hr_user_scripts.ZIP. You will need to edit the hr_main.sql to ensure that the subscripts are called with 2 '@@' signs instead of one. You will then need to run this to create the hr schema. Once that is done, login to the hr schema to ensure that you can login.

Oracle SQL*Plus					
File Edit Search Options Help					
KFEENEY	197 Kevin	Feeney			
		650.507.9822	23-MAY-98	SH_CLERK	3000
	124	50			
DOCONNEL	198 Donald	OConnell			
		650.507.9833	21-JUN-99	SH_CLERK	2600
	124	50			
DGRANT	199 Douglas	Grant			
		650.507.9844	13-JAN-00	SH_CLERK	2600
	124	50			
JWHALEN	200 Jennifer	Whalen			
		515.123.4444	17-SEP-87	AD_ASST	4400
	101	10			
MHARTSTE	201 Michael	Hartstein			
		515.123.5555	17-FEB-96	HK_MAN	13000
	100	20			
PFAY	202 Pat	Fay			
		603.123.6666	17-AUG-97	HK_REP	6000
	201	20			
SMAURIS	203 Susan	Mauris			
		515.123.7777	07-JUN-94	HR_REP	6500
	101	40			
HBAER	204 Hermann	Baer			
		515.123.8888	07-JUN-94	PR_REP	10000
	101	70			
SHIGGINS	205 Shelley	Higgins			
		515.123.8080	07-JUN-94	AC_MGR	12000
	101	110			
WGIEZ	206 William	Gietz			
		515.123.8181	07-JUN-94	AC_ACCOUNT	8300
	205	110			
107 rows selected.					
SQL> connect hr/hr@oracle10g					
Connected.					
SQL>					

Next, go into VS Tools and click View and Oracle Explorer.



If you get the following error: Package 'Oracle Developer Tools for Visual Studio .NET' has failed to load properly (GUID = {D601BB95-E404-4A8E-9F24-5C1A462426CE}). Please contact package vendor for assistance. Application restart is recommended, due to possible environment corruption. Would you like to disable loading this package in the future? You may use 'devenv /resetskipkgs' to re-enable package loading.

Then browse to:
C:\WINDOWS\Assembly

In a different window browse to:
C:\oracle\product\10.2.0\db_1\odp.net\bin\2.x\Oracle.DataAccess.dll

Drag the DataAccess.dll to the Assembly folder which will create a link/entry in the assembly for the file.