Creating and Connecting to ODI Master and Work Repositories

Purpose

This tutorial walks you through the steps that are needed to create and connect to the ODI Master Repository and the ODI Work Repository.

Time to Complete

Approximately 20 minutes

Topics

This OBE tutorial covers the following topics:

- Overview
- Scenario
- Examples
- **Verifying the Prerequisites**
- **Example 1: Creating and Connecting to the Master Repository**
- **Example 2: Creating and Connecting to the Work Repository**
- Summary

Viewing Screenshots

Place the cursor over this icon to load and view all the screenshots for this tutorial. (Caution: Because this action loads all screenshots simultaneously, the response time may be slow depending on your Internet connection.)

Note: Alternatively, you can place the cursor over each individual icon in the following steps to load and view only the screenshot associated with that step.

The screenshots will not reflect the specific environment that you are using. They are provided to give you an idea of where to locate specific functionality in Oracle Data Integrator.

Overview

The first steps to setting up **Oracle Data Integrator** are to create the **Master repository**, connect to the Master repository, create the **Work repository**, and then connect to the Work repository. This OBE provides a step-by-step walkthrough of the process of creating and connecting to the ODI Master Repository and the ODI Work Repository.

Note: The steps to create and connect to the master and work repositories are also outlined in the ODI installation guide.

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Scenario

Linda works as a database administrator for Global Enterprise. In Global Enterprise, Linda is responsible for performing database management and integration tasks on the various resources within the organization. In particular, Linda is responsible for data loading, transformation, and validation. To begin working on her projects (such as exporting a relational table to a flat file), she needs to create the new Master repository and Work repository.

Examples

In this OBE, students learn the scenario through two examples.

Example 1: Creating and Connecting to the Master Repository
This example walks you through the steps needed to create and connect to the ODI Master repository.

Example 2: Creating and Connecting to the Work Repository
This example walks you through the steps needed to to create and connect to the ODI Work repository.

Verifying the Prerequisites

Before you start the tasks, make sure that your system environment meets the following requirements:

Software Requirements

The system should include the following installed products:

- Oracle Database 10g XE
- Oracle Data Integrator 10g (10.1.3.4)

If not done before, start the services and components for Oracle Database 10g XE and Oracle Data Integrator 10g (10.1.3.4)

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Example 1: Creating and Connecting to the ODI Master Repository

This example walks you through the steps needed to create and connect to the ODI Master repository.

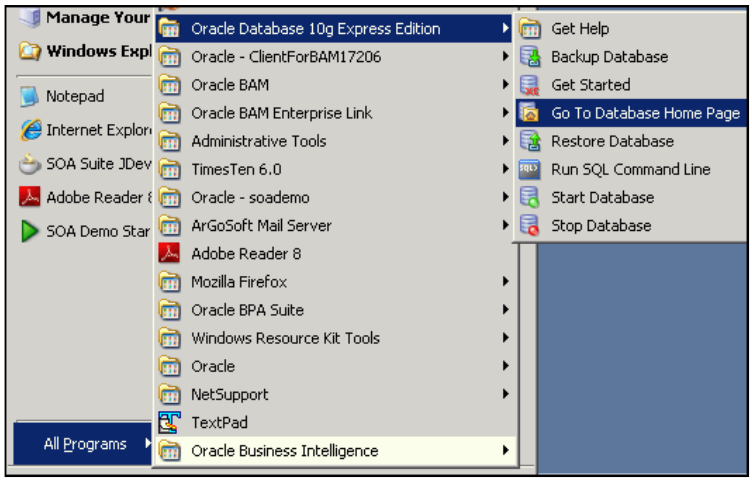
A relational schema must be created for each repository. The following steps walk you through creating the relational schema for the ODI Master repository.

- **Connecting to the RDBMS (Oracle 10g XE)**
- **Creating the RDBMS Schema/User (Oracle 10g XE) for the Master Repository**
- **Creating the ODI Master Repository**
- **Connecting to the ODI Master Repository**

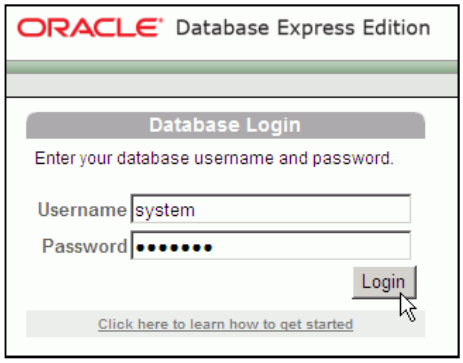
Connecting to the RDBMS (Oracle 10g XE)

The Relational Database Management System (RDBMS) used in this tutorial is Oracle 10g XE. To connect to your RDBMS, perform the following steps:

1. Start the Oracle 10g XE database Home page by selecting **Start** > **All Programs** > **Oracle Database 10g Express Edition** > **Go To Database Home Page**.



2. The Login screen appears. Log in to Oracle XE Database as **system**. The default password is **oracle1**. Click Login.



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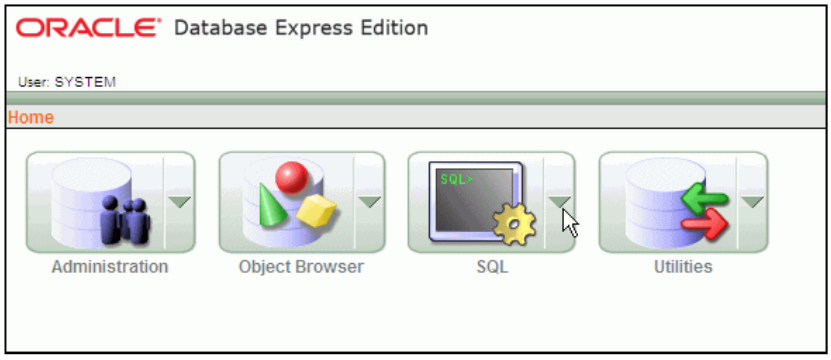
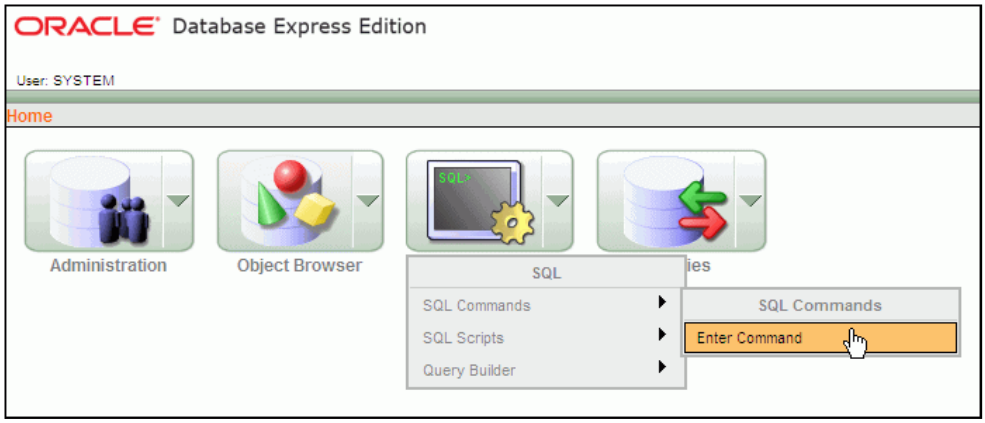
Creating the RDBMS Schema/User (Oracle 10g XE) for the Master Repository

To create the schema and user in the RDBMS (Oracle 10g XE), perform the following steps:

1. On the Oracle Database Express Edition Home screen, select **SQL Commands** > **Enter Command** from the SQL drop-down list.





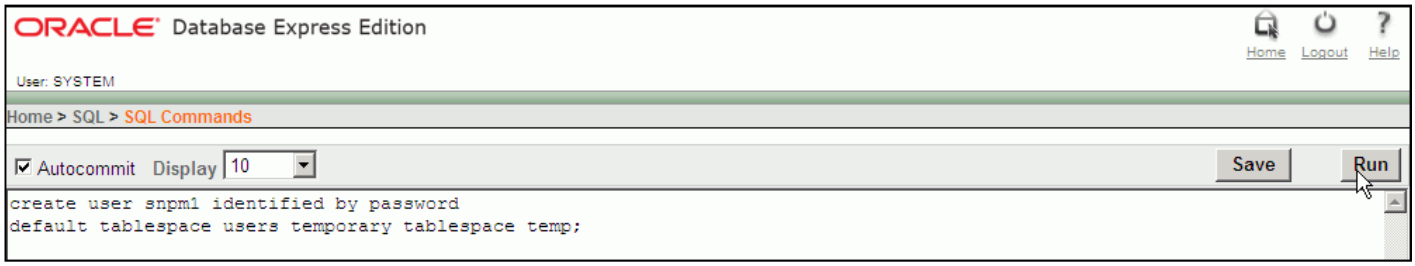
2. Create the schemas by executing the following SQL commands:

```
create user <MY_SCHEMA> identified by <MY_PASS>
default tablespace <MY_TBS> temporary tablespace <MY_TEMP>;
grant connect, resource to <MY_SCHEMA>;
```

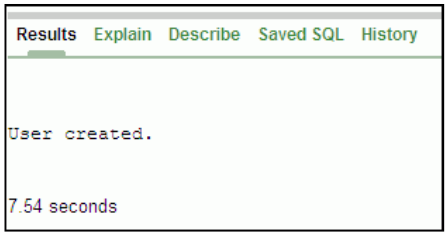
Where:
<MY_SCHEMA> corresponds to the name of the schema that you want to create
<MY_PASS> corresponds to the password that you gave
<MY_TBS> corresponds to the Oracle tablespace where the data will be stored
<MY_TEMP> corresponds to the temporary default tablespace

To create the user, enter the following command. Click **Run**.

```
create user snpm1 identified by password
default tablespace users temporary tablespace temp;
```



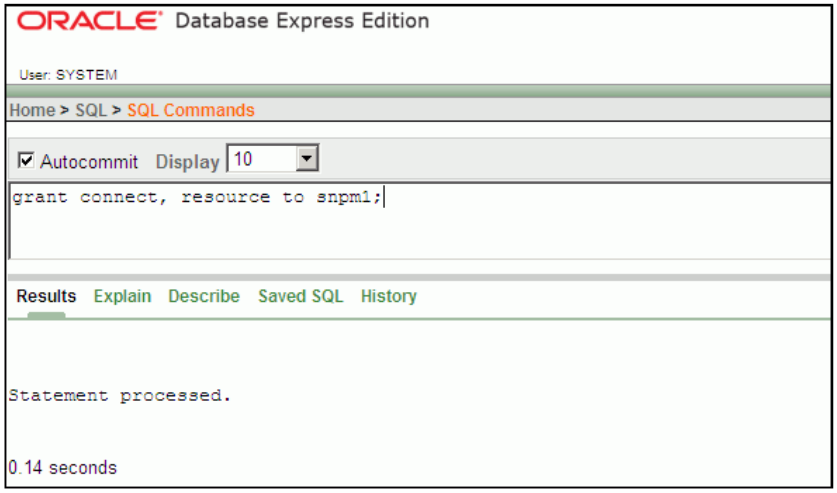
3. Verify that User **snpm1** was successfully created.



4. Grant connect privileges to the newly created user by executing the following SQL command:

```
grant connect, resource to snpm1;
```

Verify that this statement processed successfully.



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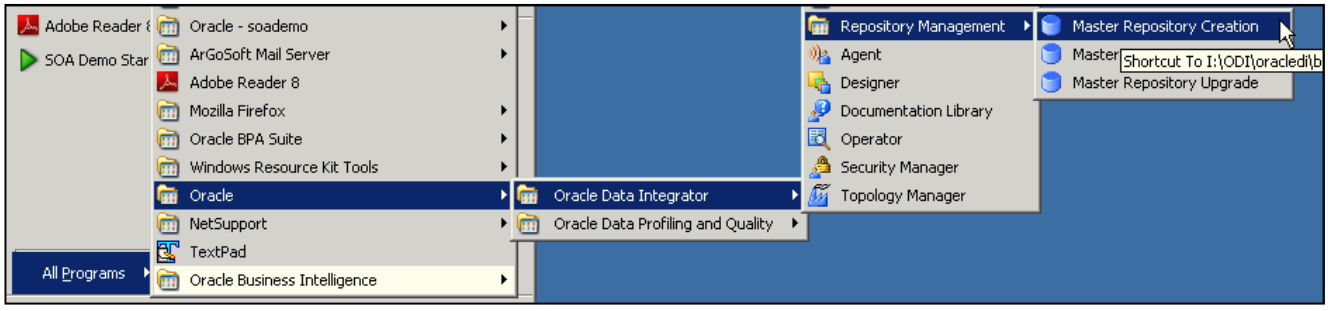
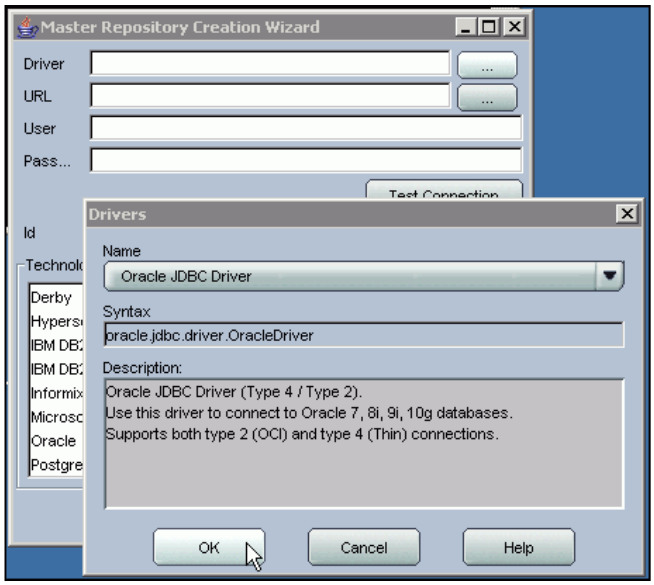
Creating the ODI Master Repository

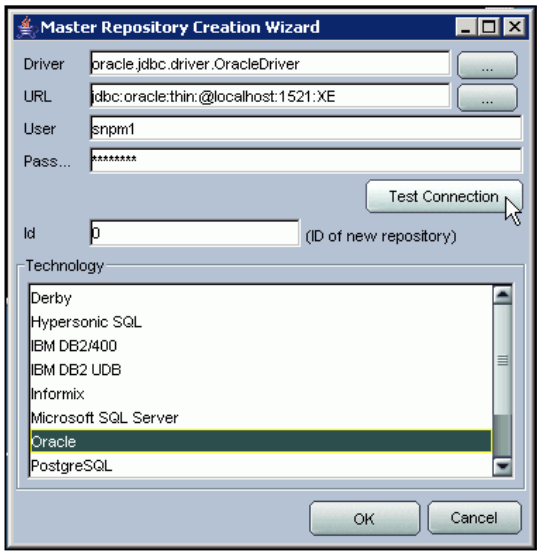
To create the ODI Master repository, perform the following steps:

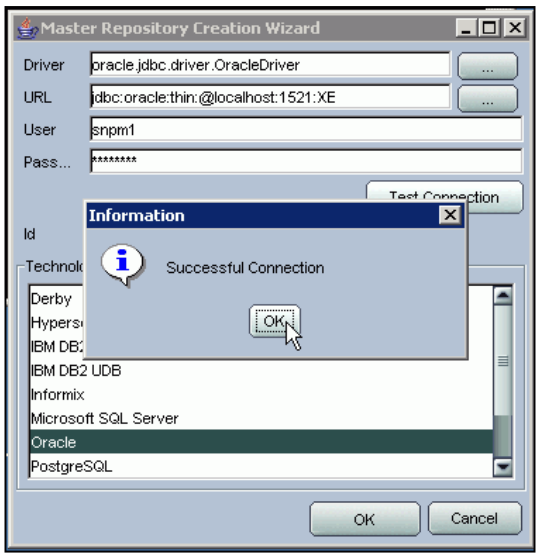
1. Start the ODI Master Repository Creation program: **Start > All Programs > Oracle > Oracle Data Integrator > Repository Management > Master Repository Creation**. In the **Master Repository Creation Wizard**, click the button next to the **Driver** field. Select **Oracle JDBC Driver** and click **OK**.



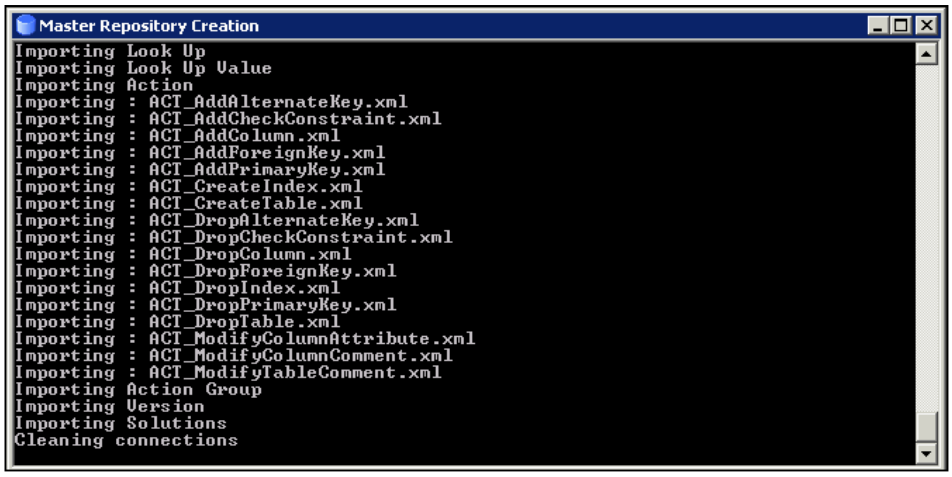


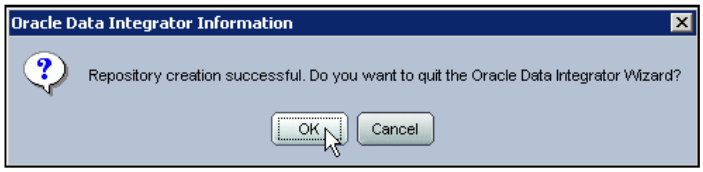
2. In the **URL** field, enter the following URL: **jdbc:oracle:thin@localhost:1521:XE**, and then enter the User as **snpm1** and Password as **password**. In the Technology field, select **Oracle**. Click the **Test Connection** button and verify successful connection. Click **OK**. Click **OK** on Master Repository Creation Wizard screen.





3. The SQL command is executed in the command window. If the Master repository creation is successful, you will see the following message. Click **OK**. The ODI Master repository is now created.





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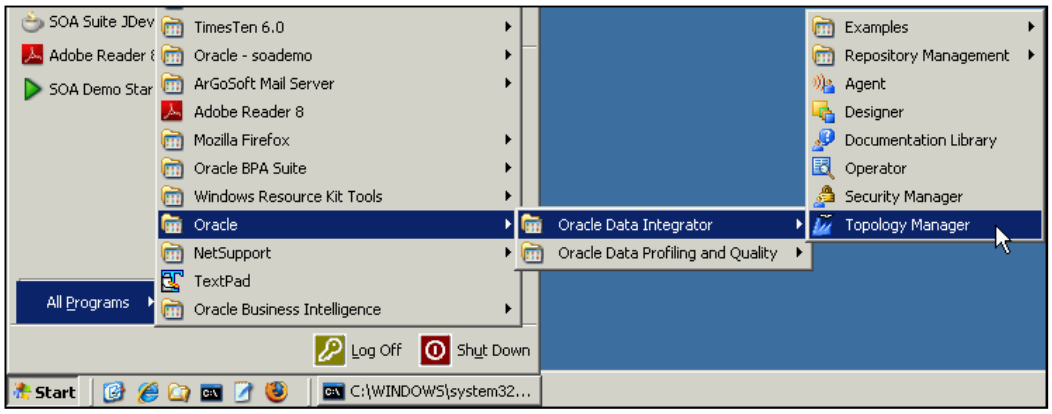
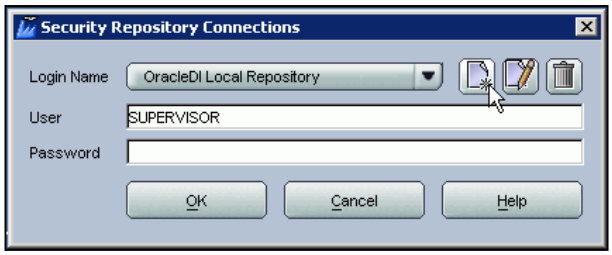
Connecting to the ODI Master Repository

To connect to the ODI Master repository, perform the following steps:

1. Start Topology Manager: **Start** > **All programs > Oracle > Oracle Data Integrator > Topology Manager**. Click the **New** icon to create a new connection to the Master repository.





2. Configure Repository Connections with the parameters provided in the following table. Click the **Test** button. Verify successful connection and click **OK**. Click **OK** to save the connection.

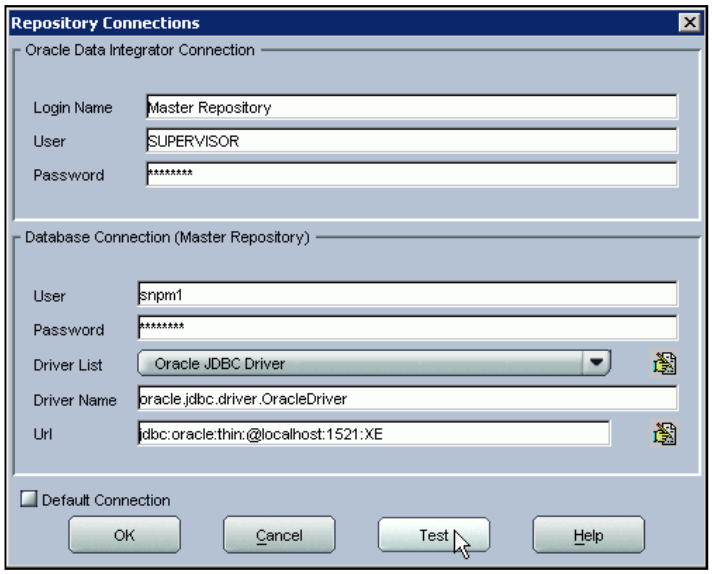
Notes:

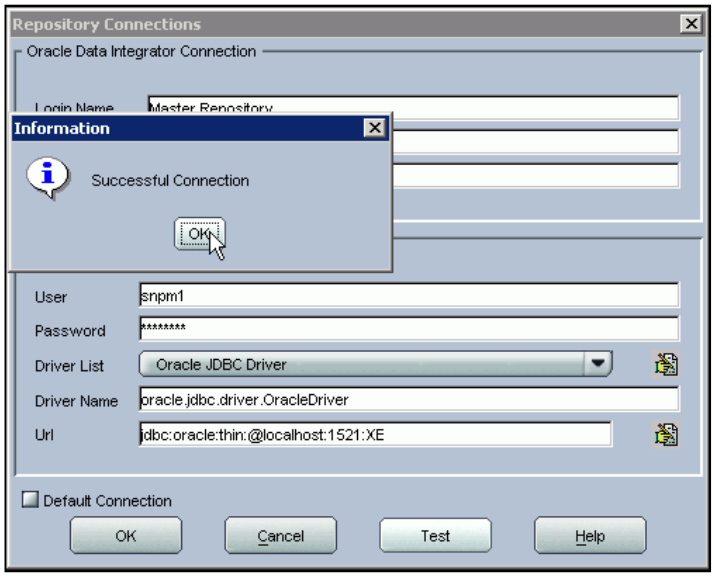
- Don't copy and paste in the JDBC Url field! This may cause problems with entering a valid URL string.
- You may need to enter the appropriate driver and URL for your RDBMS.

Oracle Data Integrator Connection	
Parameter	Value
Login Name	**Master Repository**
User	**SUPERVISOR**
Password	**SUNOPSIS**

Database Connection (Master Repository)	
Parameter	Value
User	**snpm1**
Password	**password**

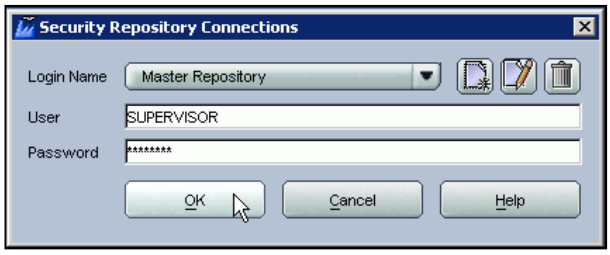
Driver List	**Oracle JDBC Driver**
Driver Name	**oracle.jdbc.driver.OracleDriver**
Url	**jdbc:oracle:thin@localhost:1521:XE**

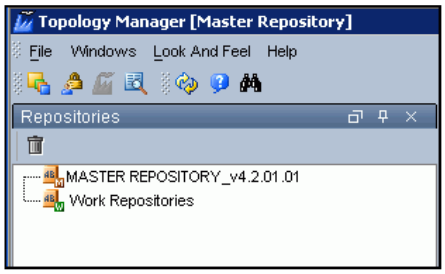




3. Select the newly created repository connection (Master Repository) from the drop-down list. Click **OK**. The **ODI Topology Manager** starts.

   You are now successfully logged in to the ODI Topology Manager. Click the **Repositories** tab  in left panel of the Topology Manager. Verify that your newly created Master repository is in the Repositories window.





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Example 2: Creating and Connecting to the ODI Work Repository

This example walks you through the steps needed to create and connect to the ODI Work repository.

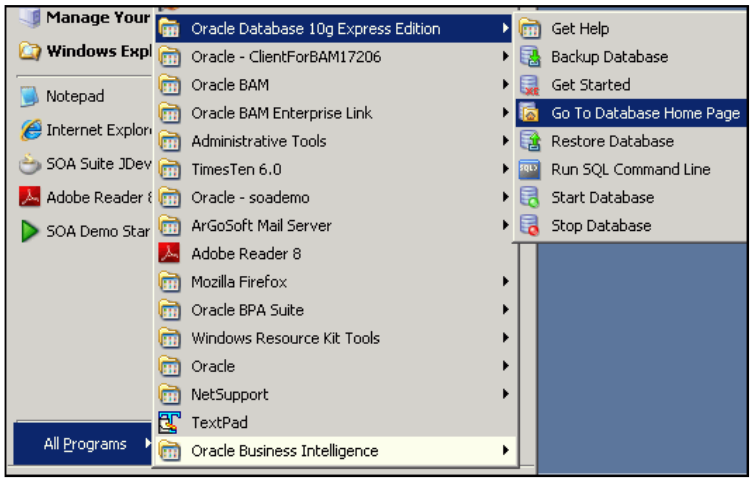
A relational schema must be created for each repository. The following steps walk you through creating the relational schema for the ODI Work repository.

- Connecting to the RDBMS (Oracle 10g XE)
- Creating the RDBMS Schema/User (Oracle 10g XE) for the Work Repository
- Creating the ODI Work Repository
- Connecting to the ODI Work Repository

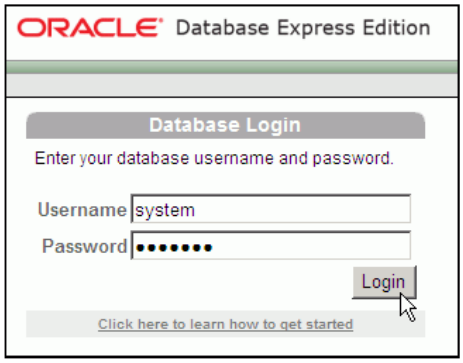
Connecting to the RDBMS (Oracle 10g XE)

To connect to the RDBMS, perform the following steps:

1. If not opened, open the Oracle XE Database Home page: **Start > All Programs > Oracle Database 10g Express Edition > Go to Database Home page**.



2. The Login screen appears. Log in to Oracle XE Database as **system**. The default password is **oracle1**. Click **Login**.



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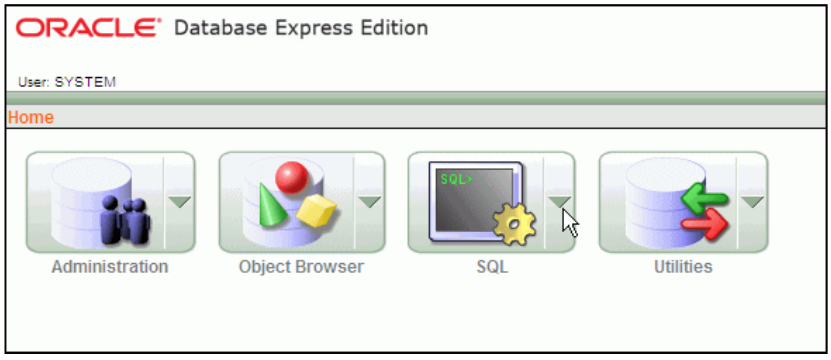
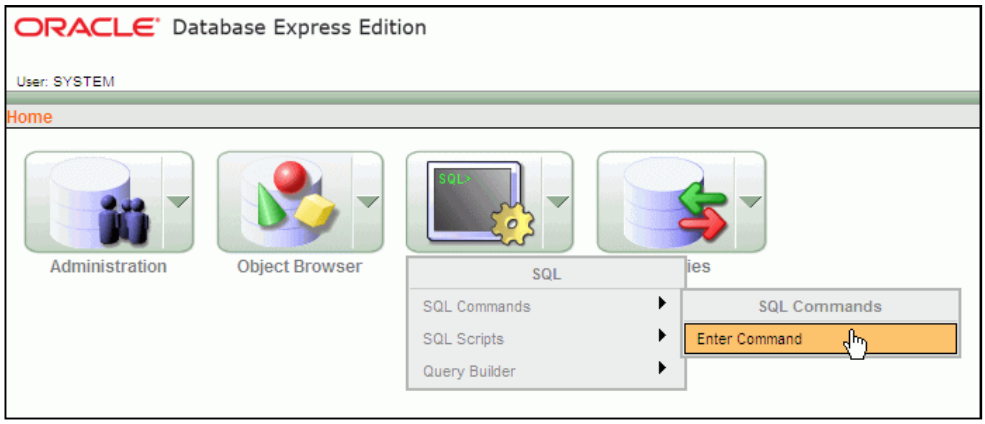
Creating the RDBMS Schema/User (Oracle 10g XE) for the Work Repository

To create the RDBMS schema for the Work repository, perform the following steps:

1. On the Oracle Database Express Edition Home screen, select **SQL Commands > Enter Command** from the **SQL** drop-down list.





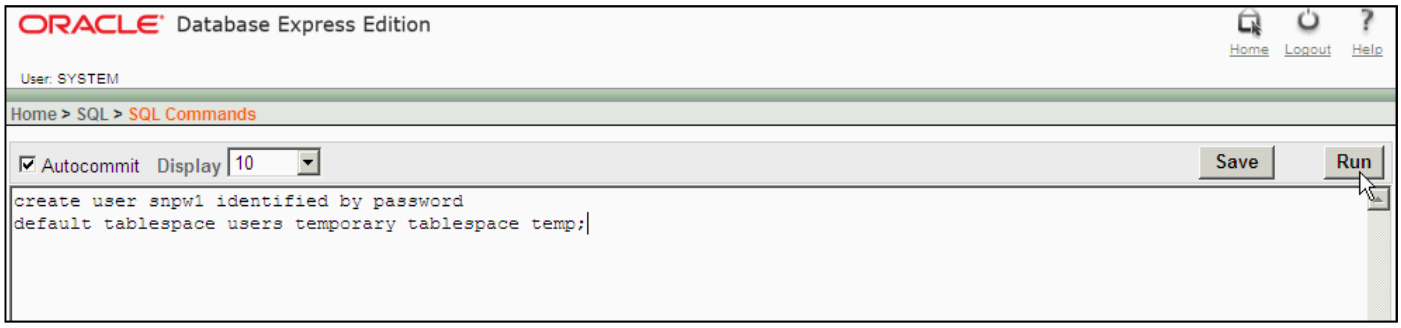
2. Create the schemas by executing the following SQL commands:

```
create user <MY_SCHEMA> identified by <MY_PASS>
default tablespace <MY_TBS> temporary tablespace <MY_TEMP>;
grant connect, resource to <MY_SCHEMA>;
```

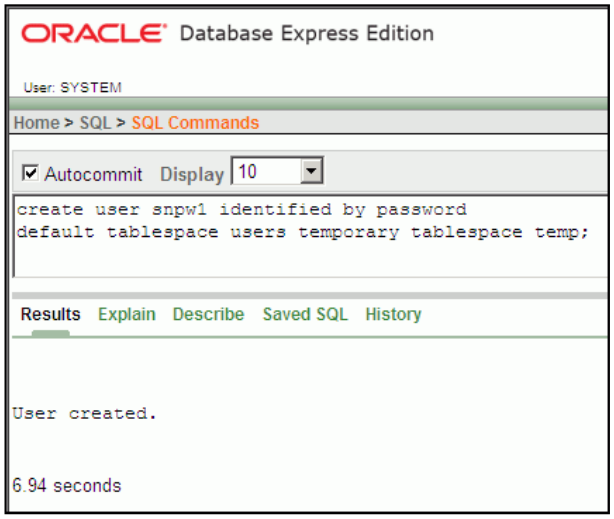
Where:
<MY_SCHEMA> corresponds to the name of the schema that you want to create
<MY_PASS> corresponds to the password that you gave
<MY_TBS> corresponds to the Oracle tablespace where the data will be stored
<MY_TEMP> corresponds to the temporary default tablespace

To create the user, enter the following command. Click **Run**.

```
create user snpw1 identified by password
default tablespace users temporary tablespace temp;
```



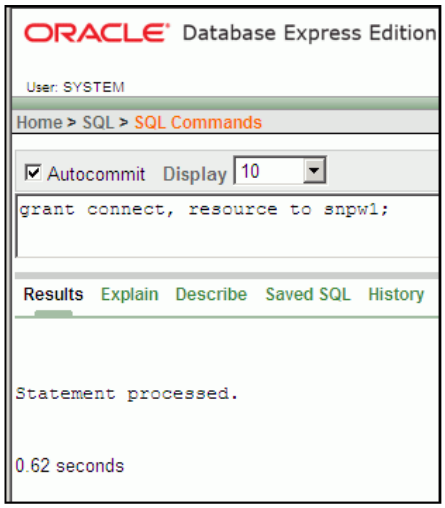
3. Verify that user **snpw1** was successfully created.



4. Grant connect privileges to the newly created user by executing the following SQL command:

```
grant connect, resource to snpw1;
```

Verify that this statement processed successfully.



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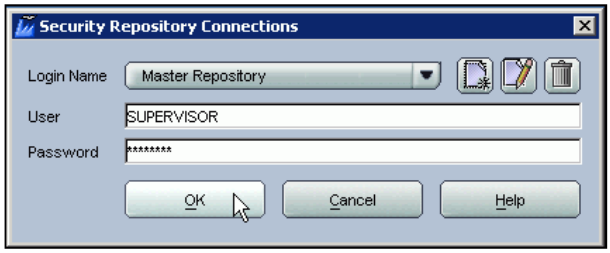
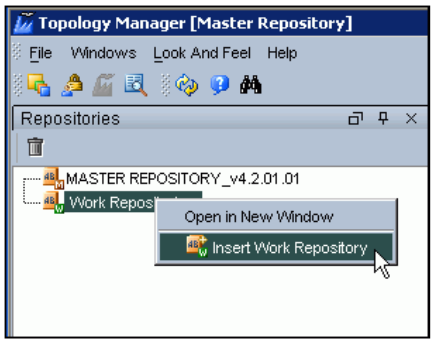
Creating the ODI Work Repository

To create the ODI Work repository, perform the following steps:

1. If not started, start the ODI Topology Manager: **Start** > **All Programs > Oracle > Oracle Data Integrator > Topology Manager**. Choose the newly created Master repository from Example 1 (Master Repository). Click **OK**.

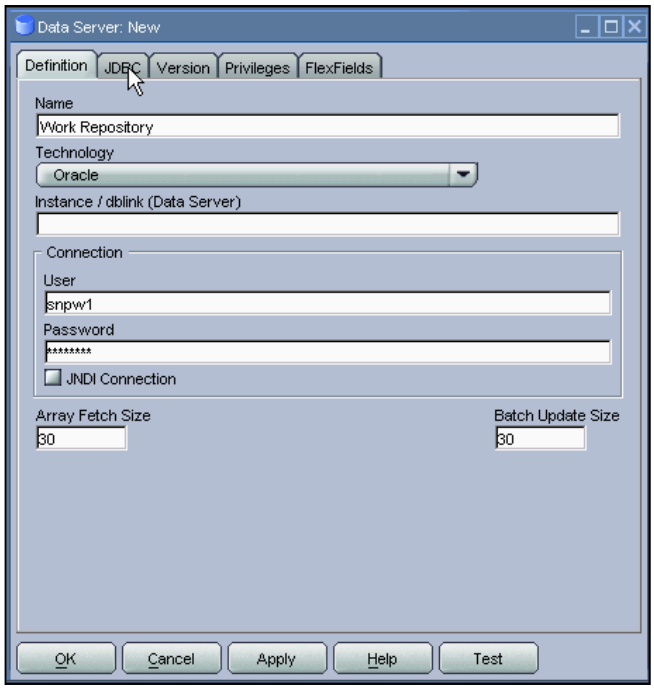


2. Click the **Repositories** tab  in the left panel of the Topology Manager. Right-click **Work Repositories** and select **Insert Work Repository**.



3. In the **Data Server: New** window, enter the parameters shown in the following table. Click the **JDBC** tab.

Parameter	Value
Name	**WORKREP**
Technology	**Oracle**
User	**snpw1**
Password	**password**

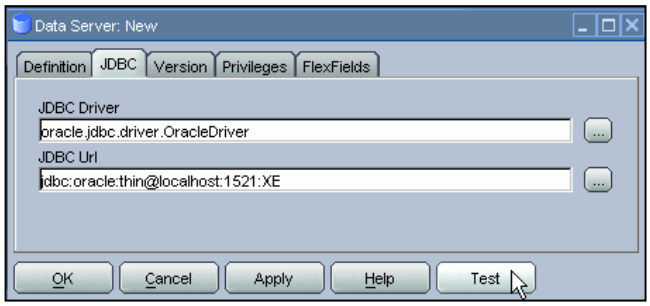


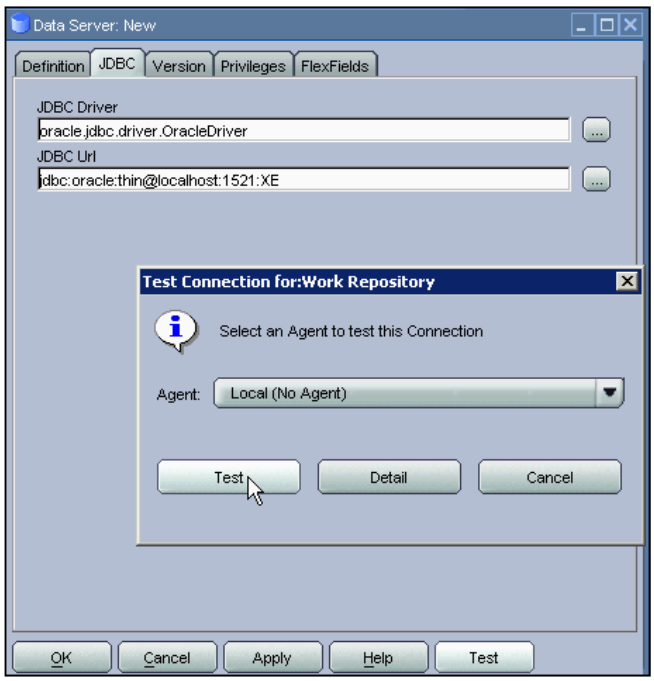
4. In the **JDBC** window, select **Oracle JDBC Driver** and enter the **URL** from the table below. Click the **Test** button. In the **Test Connection for: Work Repository** dialog box, click **Test**. Verify successful connection and click **OK**. Click **OK** again.

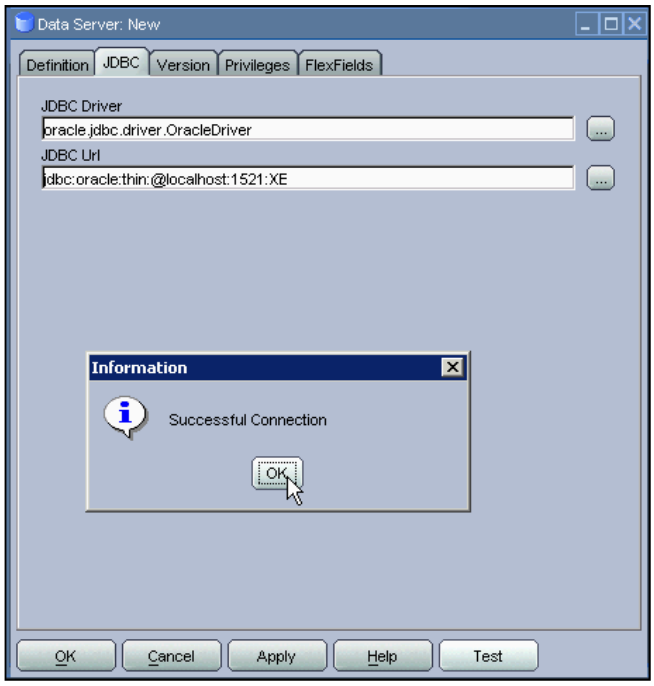
   Notes:

   - Don't copy and paste in the JDBC Url field! This may cause problems with entering a valid URL string.
   - You may need to enter the appropriate driver and URL for your RDBMS.

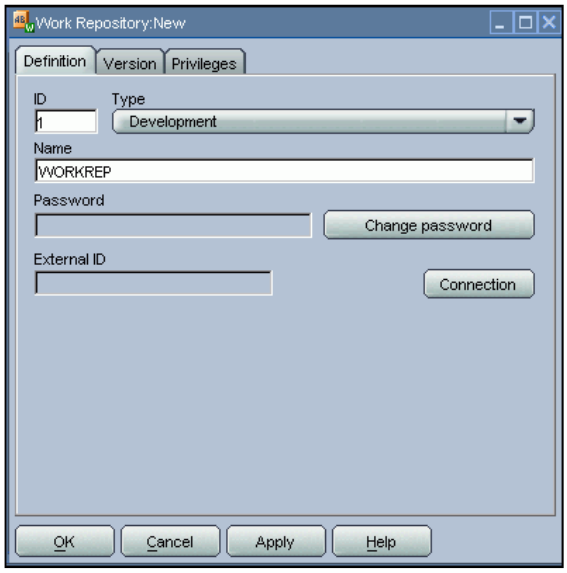
Parameter	Value
Driver Name	**oracle.jdbc.driver.OracleDriver**
Url	**jdbc:oracle:thin@localhost:1521:XE**

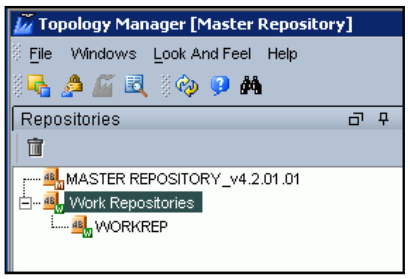






In the **Work Repository: New** dialog box, set the **ID** to 1. Set the Name to **WORKREP**. Click **OK**. Verify that the newly created Work repository is now in the work repositories tree view.





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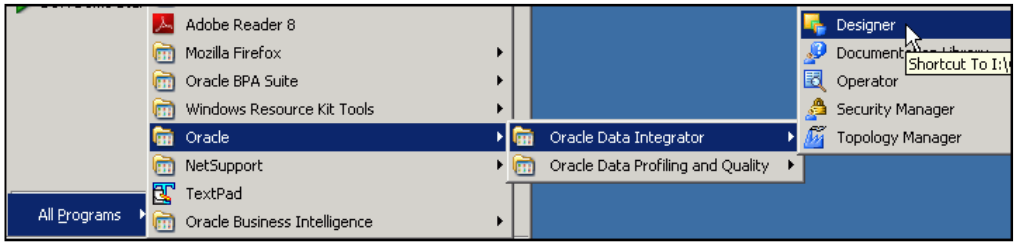
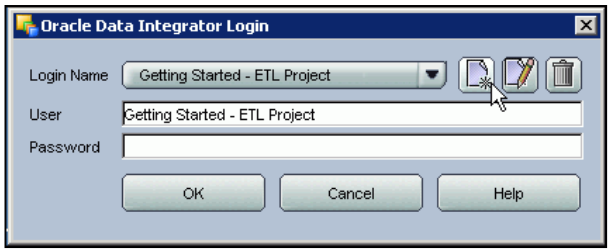
Connecting to the ODI Work Repository

To create a new project for your BPEL process, perform the following steps:

1. Start ODI Designer: **Start** > **All Programs > Oracle > Oracle Data Integrator > Designer**. Click the **New** icon to create a new connection to the Work repository.

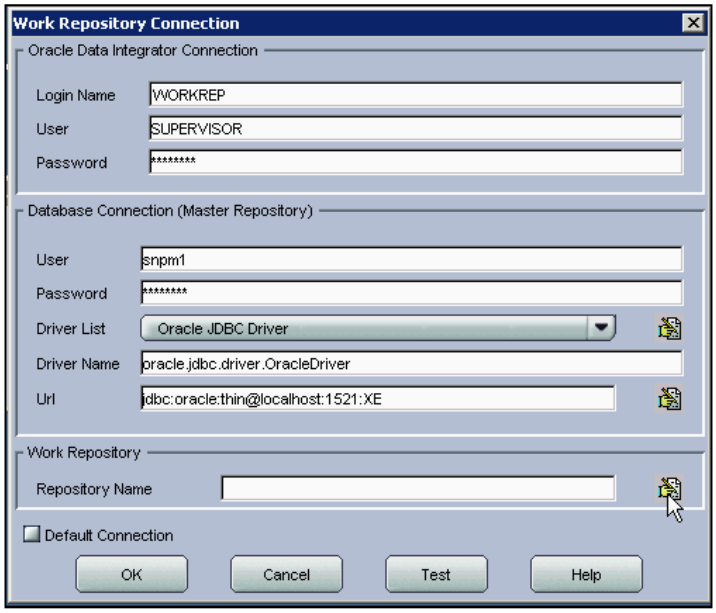


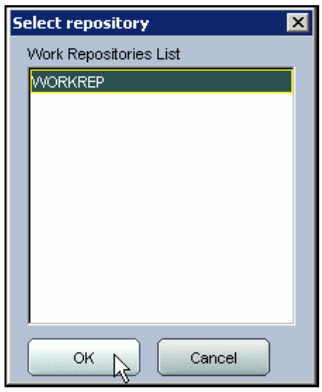


2. Configure Repository Connections with the parameters provided in the following table. In the **Work Repository** section, click the icon next to **Repository Name** field. This displays the list of defined work repositories for the Master repository. Select **WORKREP** and click **OK**. Click **OK** again to save the connection.

Oracle Data Integrator Connection	
Parameter	Value
Login Name	**WORKREP**
User	**SUPERVISOR**
Password	**SUNOPSIS**

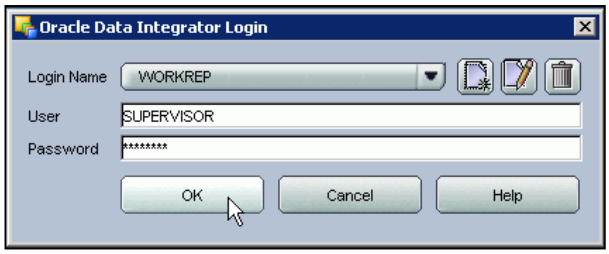
Database Connection (Master Repository)	
Parameter	Value
User	**snpm1**
Password	**password**
Driver List	**Oracle JDBC Driver**
Driver Name	**oracle.jdbc.driver.OracleDriver**
Url	**jdbc:oracle:thin@localhost:1521:XE**

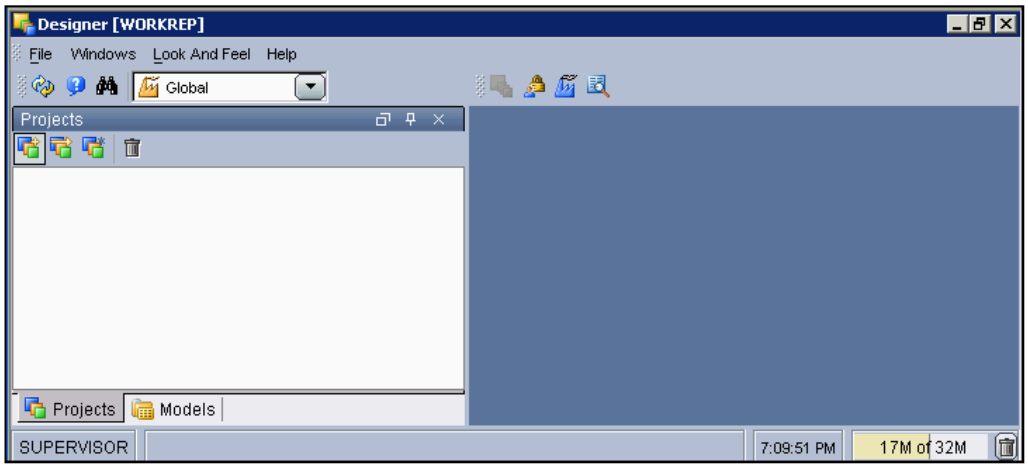




3. Select **Work Repository** from the **Login Name** drop-down list if not already selected. Click **OK**. The following screen appears.

You have now successfully created and connected to the ODI Work repository.





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Summary

In this lesson, you learned how to:

- Verify the Prerequisites
- Connect to the RDBMS (Oracle 10g XE)
- Create the RDBMS Schema/User (Oracle 10g XE) for the Master Repository
- Create the ODI Master Repository
- Connect to the ODI Master Repository
- Create the RDBMS Schema/User (Oracle 10g XE) for the Work Repository
- Create the ODI Work Repository
- Connect to the ODI Work Repository

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Place the cursor over this icon to hide all screenshots.