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Replication Of Databases → Multimaster Replications

Prerequisites

Thanks to Sam for sharing this document.

1. We want two databases with Same Version.
2. Make an entry in tnsnames.ora on both the DB.
3. Try to Connect both the instances using sqlplus.
4. Repadmin User must be enabled while login from sys user.

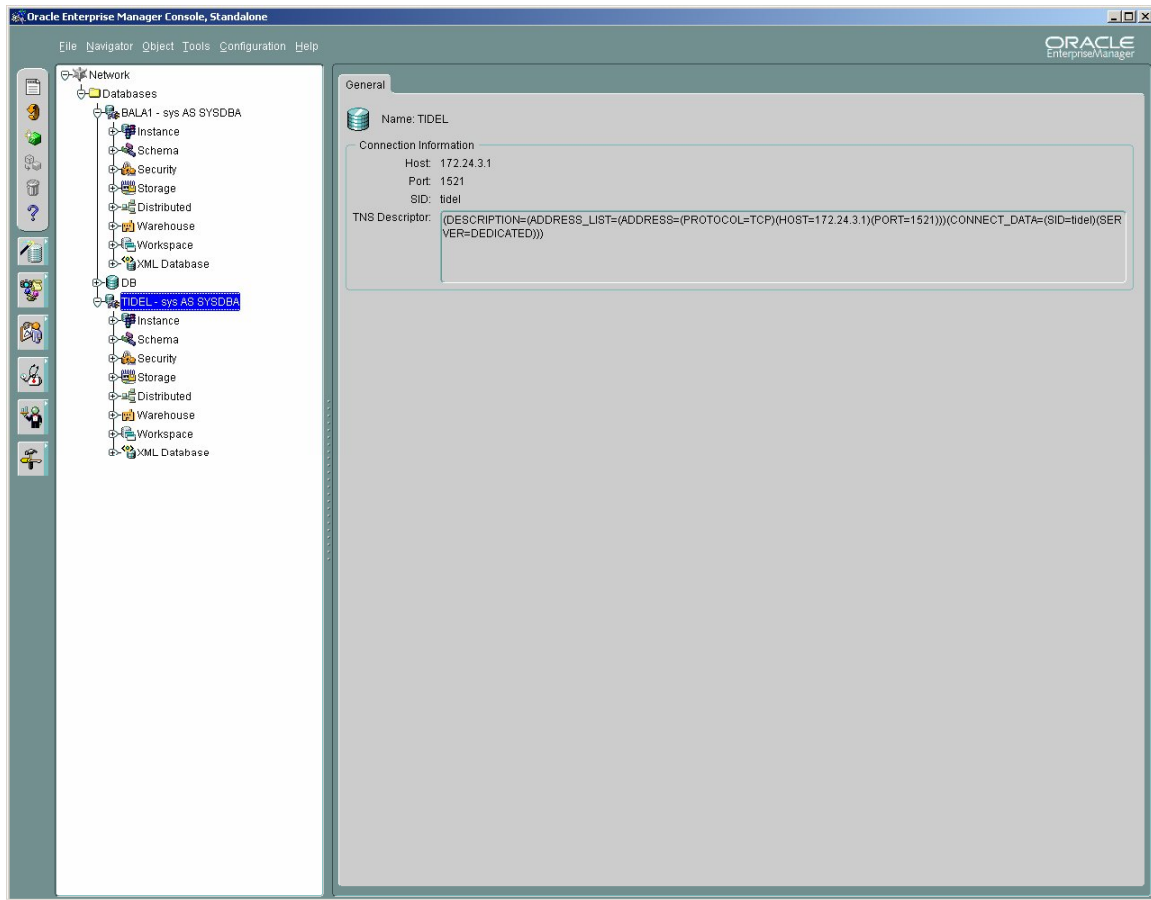
Step 1: Going to Enterprise Manager Console



By Selecting Launch Standalone Press **OK** Button

Step 2. Add the databases using **add the database** from Navigator Panel.

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Step 3 : From the Local DB, go to Database → Distributed → Advanced Replication → Multi Master Replications

Multimaster Replication

Multimaster Replication allows multiple sites (called *Master Sites*), acting as equal peers, to manage groups of replicated database objects.

To set up multimaster replication:

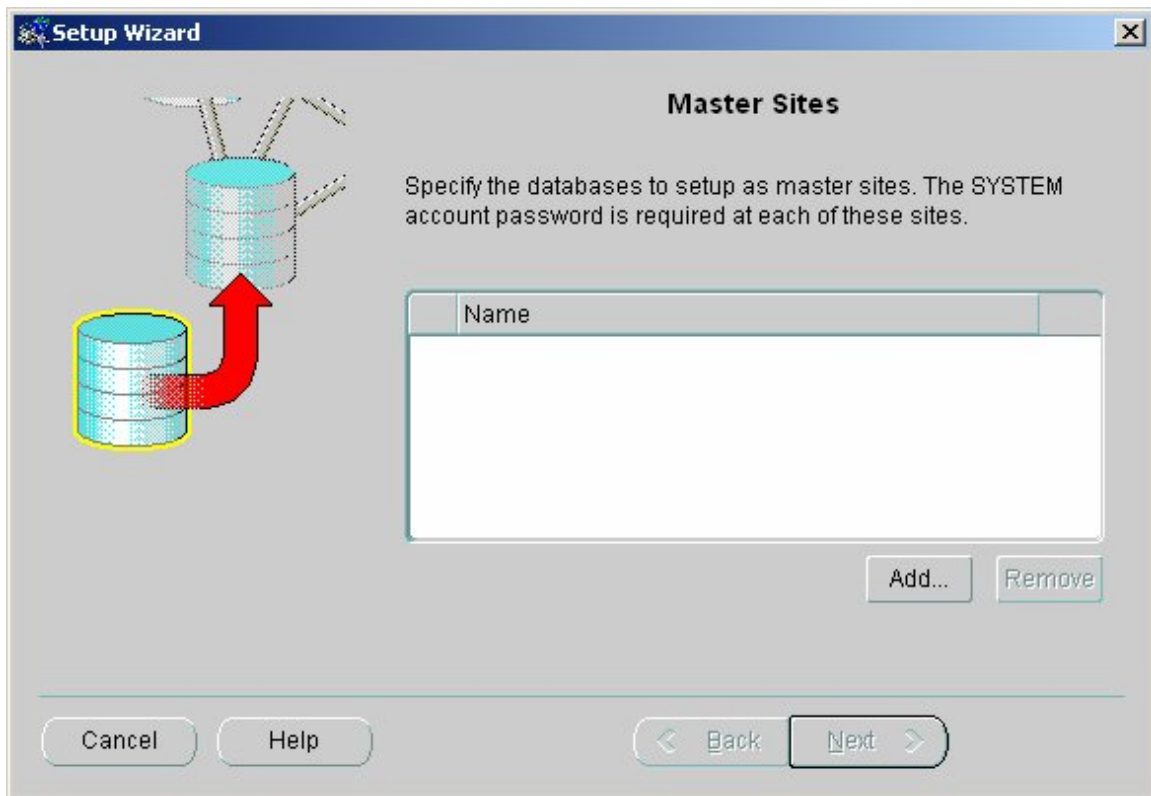
1. Click [Setup Master Sites...](#) to launch a wizard that helps you set up a multimaster replication environment.
2. Click [Create Master Group...](#) to create a master group that will manage the replicated objects. Upon completion, the new group will appear in the navigator, and a request will be submitted to start the replication process.
3. From the navigator, select the master group you just created. Multimaster replication is running if the master group status is *Started*.

To learn more about Multimaster Replication, click the [Help](#) button.

Help

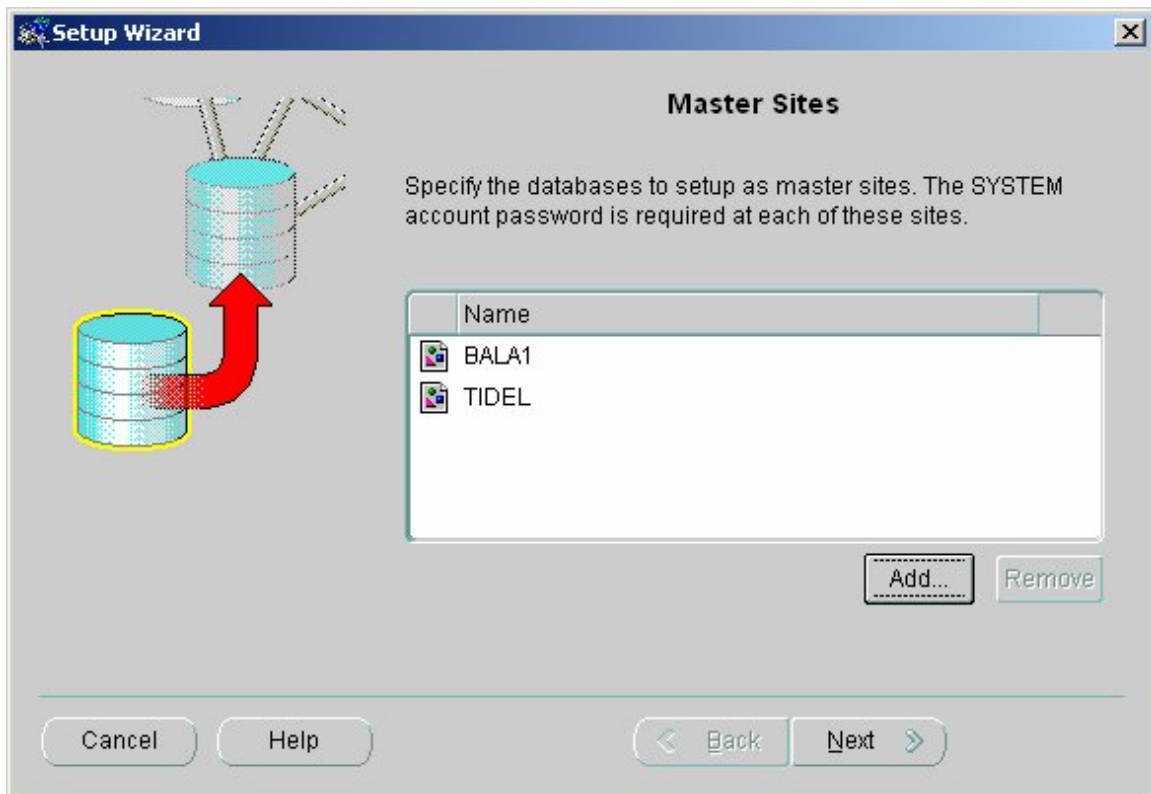
Step 4 : Go to Setup Master Sites

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Step 5 : Add the Two Instance by Choosing **Add** Button

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Pls Select the Repadmin User and type the password. Repadmin user is the default administrator account for doing replications.

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Setup Wizard

Default Users

Enter the default administrator and optionally a different propagator to be created at each master site.

Administrator

Schema:

Password:

Propagator/Receiver

Use a propagator different from the administrator

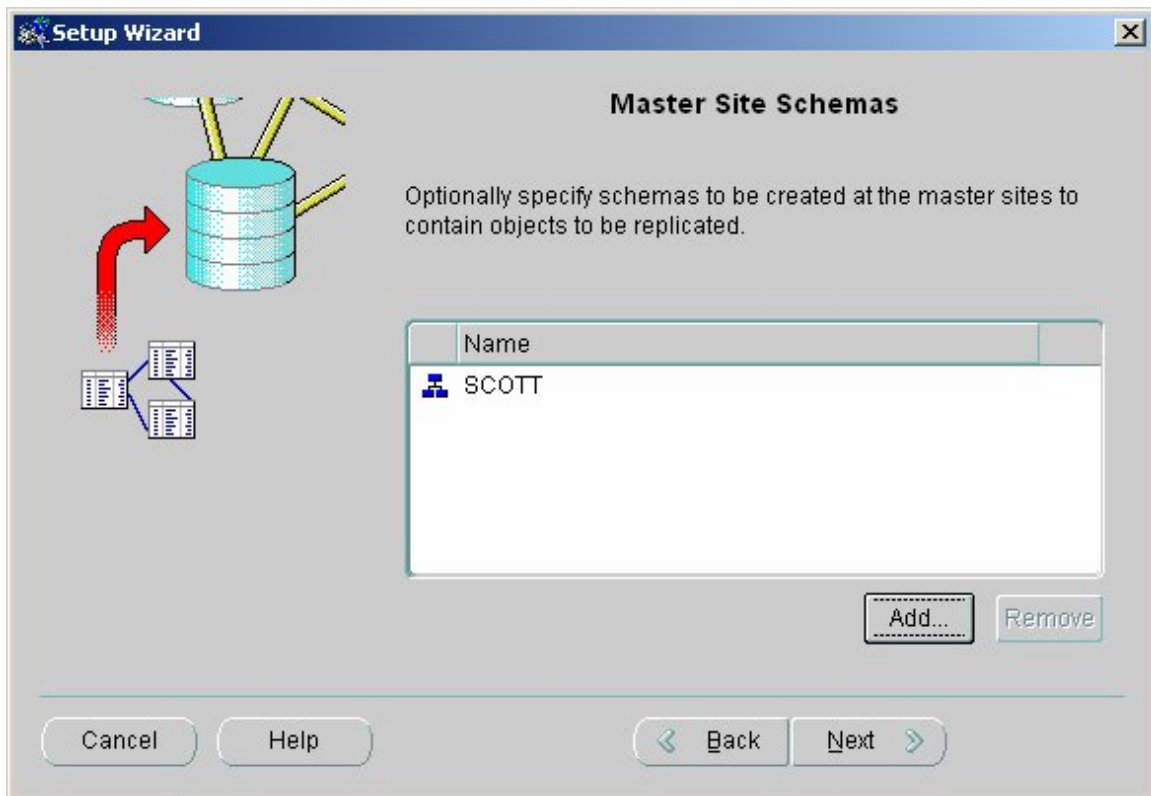
Schema:

Password:

Cancel Help < Back Next >

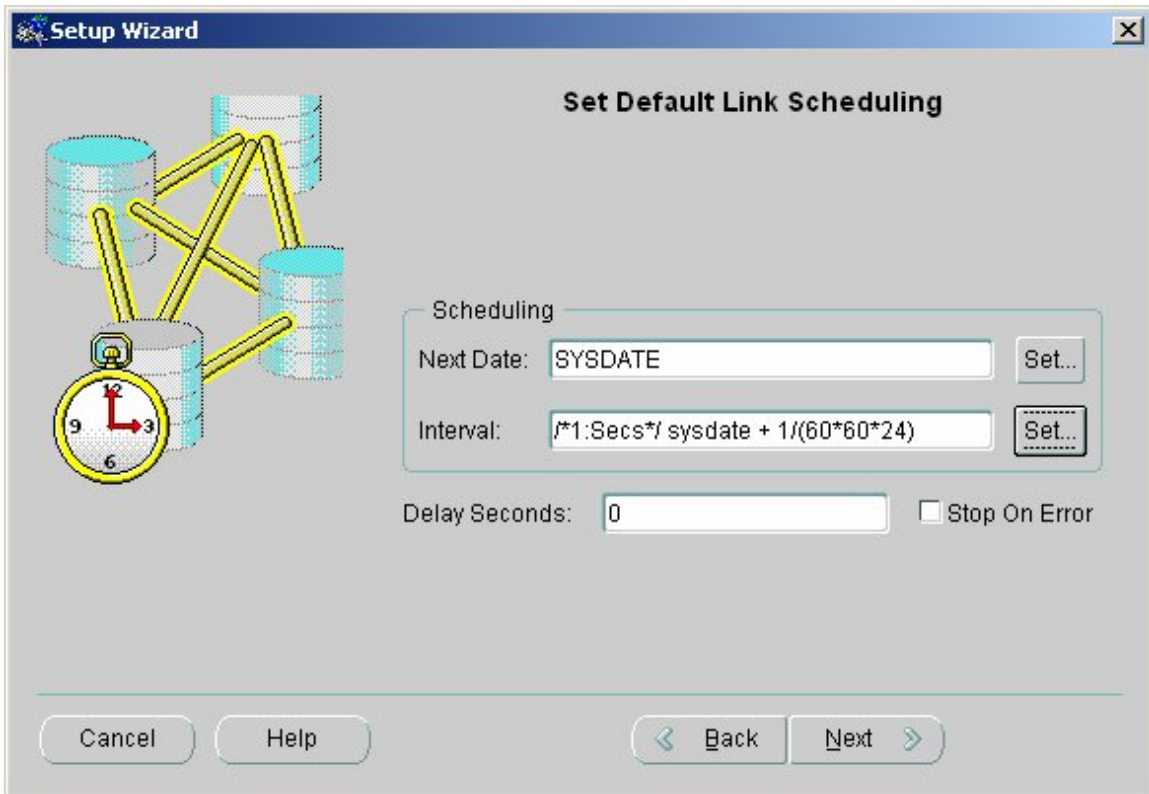
Now Choose the user which you want to replication between two databases

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Select the interval time of replications, here I am choosing 1 Sec

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Setup Wizard

Set Default Link Scheduling

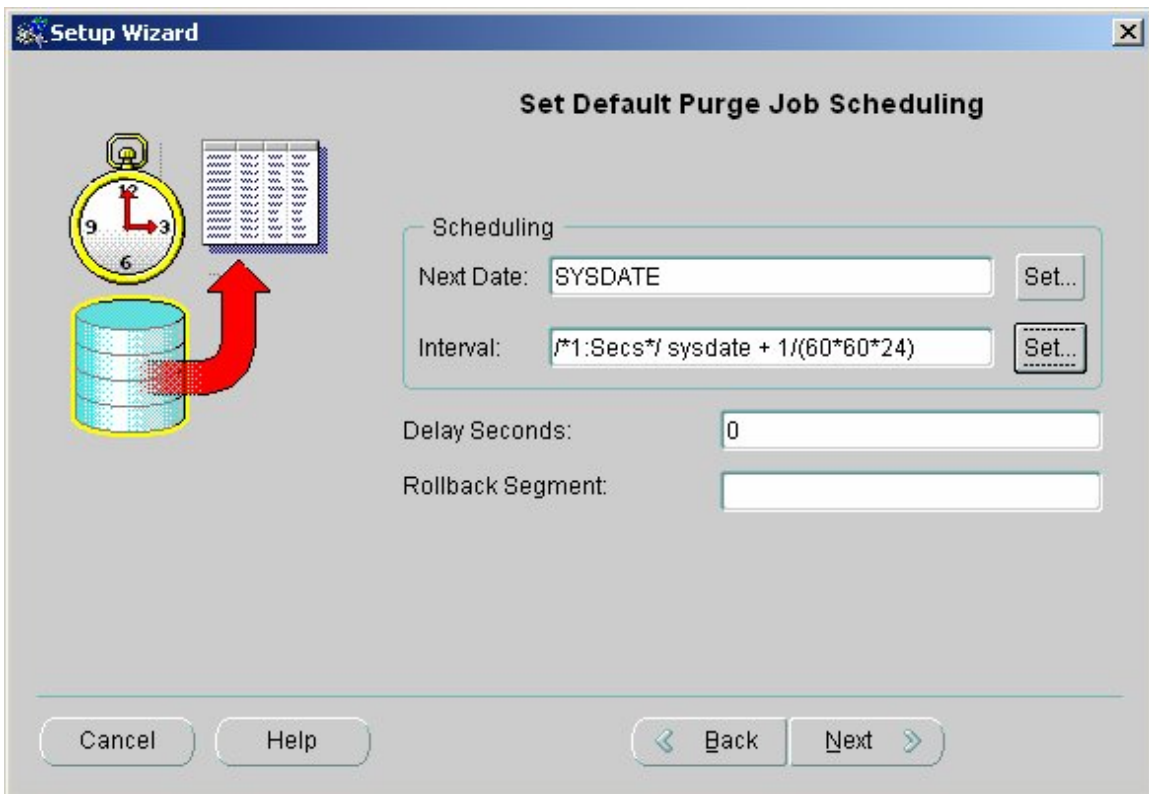
Scheduling

Next Date:

Interval:

Delay Seconds: Stop On Error

Select the interval time for job purge, here I am selecting 1 sec



Setup Wizard

Set Default Purge Job Scheduling

Scheduling

Next Date:

Interval:

Delay Seconds:

Rollback Segment:

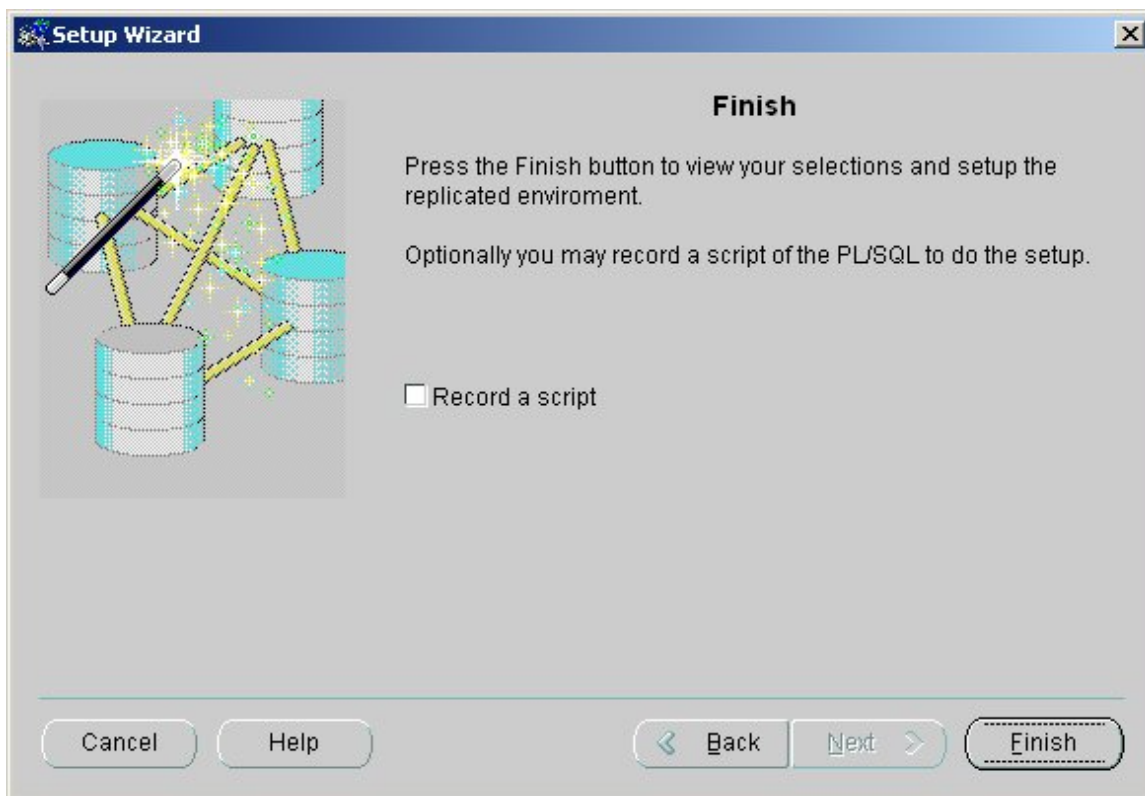
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Here is the summary for the replication for 2 databases

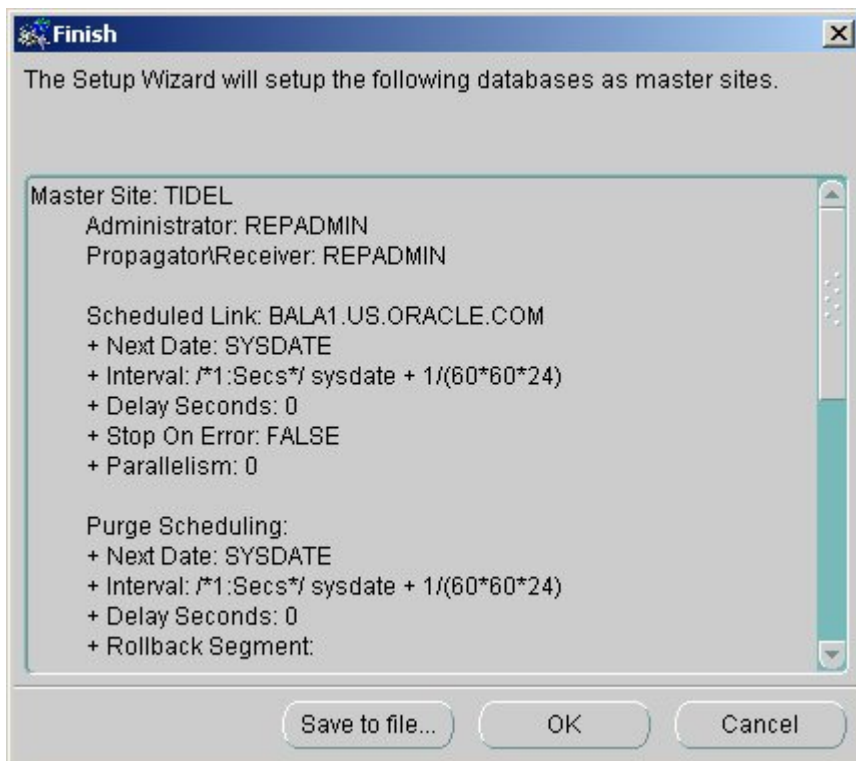


We don't need a script, press next button,

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The Overall Summary is

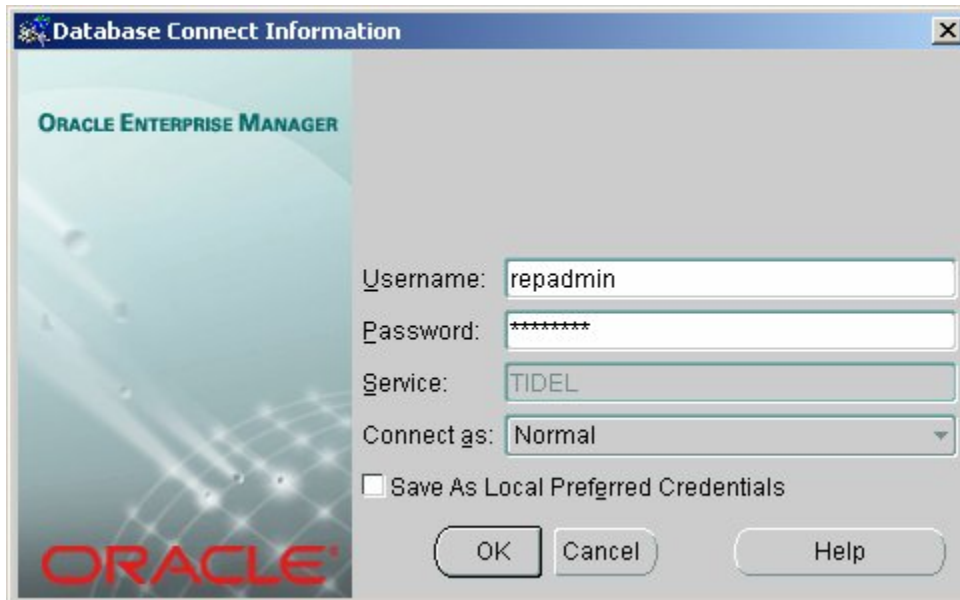


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Press OK Button.

Now go to Master Groups,

Now login as repadmin user with password repadmin,



Now Go to Instance Name → Distributed → Advanced Replication → Master Group
And right click to create

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The screenshot shows a dialog box titled "Create Master Group - repadmin@TIDEL". It has three tabs: "General", "Objects", and "Master Sites". The "Objects" tab is currently selected. The dialog contains the following fields and controls:

- Name:** An empty text input field.
- Connection Qualifier:** An empty text input field.
- Generate support for objects and start replication**
- Remark:** A large empty text area.
- Buttons:** "Create", "Cancel", "Show SQL", and "Help". The "Create" button is highlighted with a darker background.

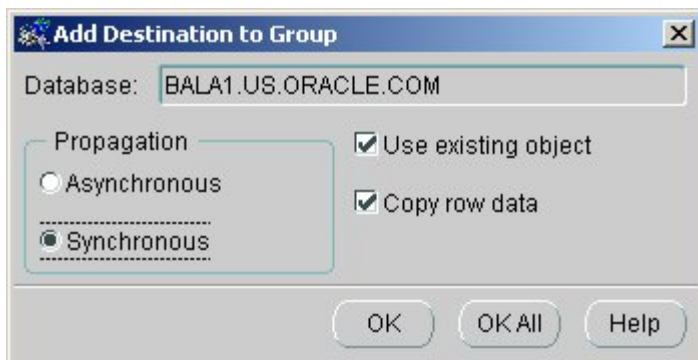
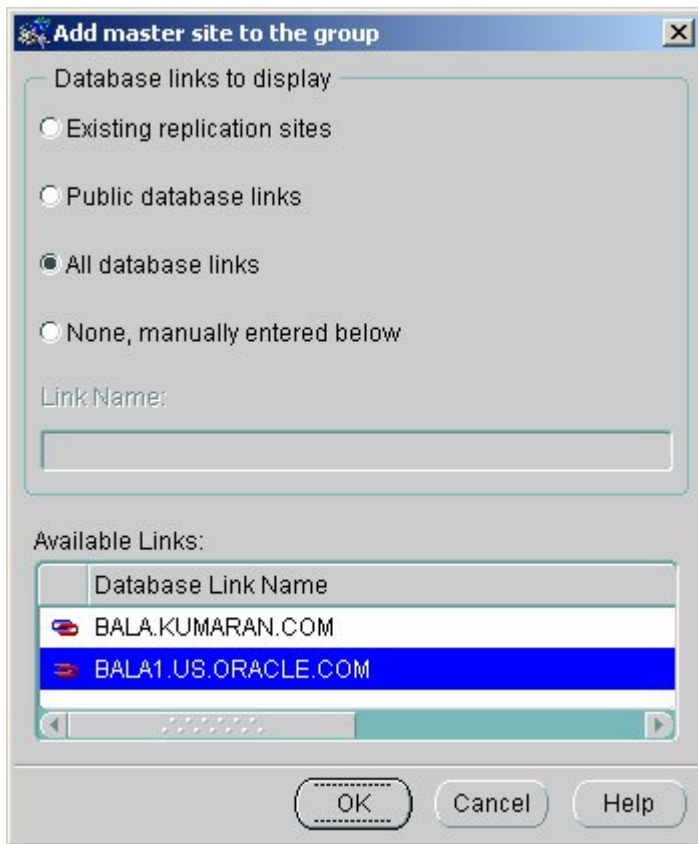
Type the Group Name, here I am using **Saro**

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The image shows a screenshot of the 'Create Master Group' dialog box in Oracle Enterprise Manager. The window title is 'Create Master Group - repadmin@TIDEL'. There are three tabs: 'General', 'Objects', and 'Master Sites'. The 'Objects' tab is currently selected. In the 'Name' field, the text 'SARO' is entered. The 'Connection Qualifier' field is empty. A checkbox labeled 'Generate support for objects and start replication' is checked. Below this is a 'Remark' label followed by a large empty text area. At the bottom of the dialog, there are four buttons: 'Create', 'Cancel', 'Show SQL', and 'Help'.

Now Navigate to Master Sites,

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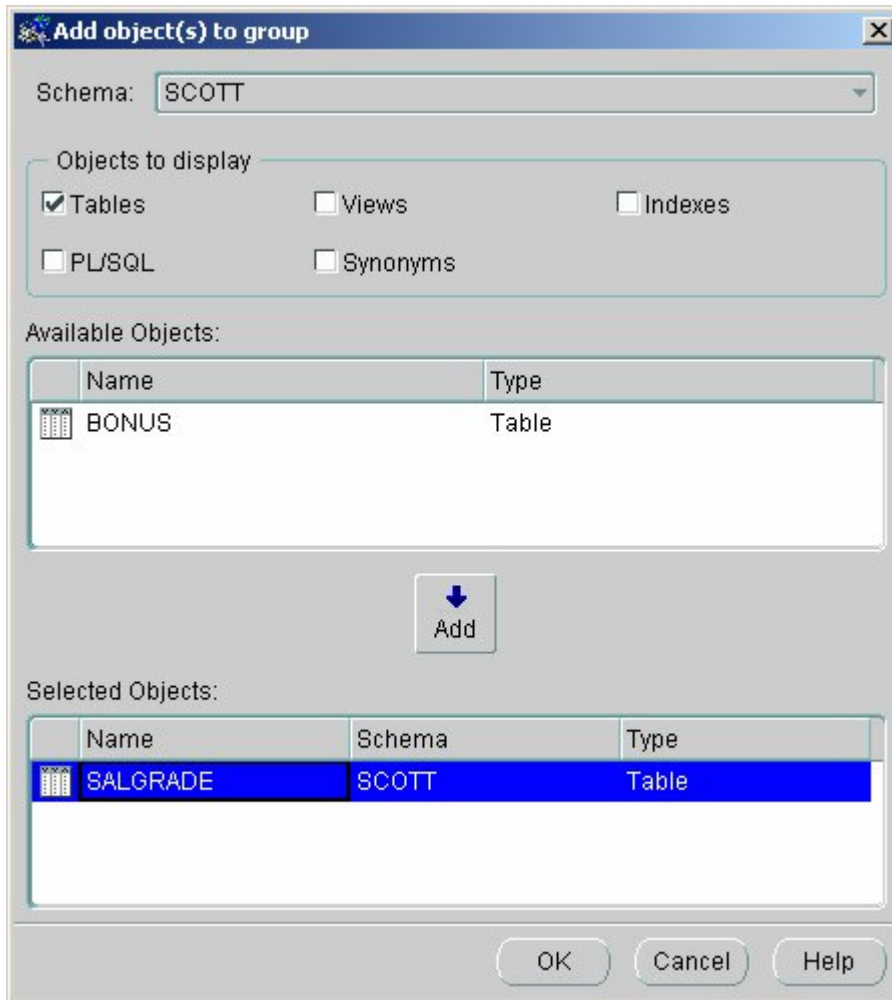


Go to Object Tab

Go to Add Button

Choose the Table in which you want to replicate and also choose the schema

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Press Create Button.



Now Select the Saro (Master Group Name) , in that go to Object Tab

Select the Table and Choose Generate Replication Report, it will give you a error.
So go to General Tab, Click Submit Stop Request

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Now again Choose Generate Replication Report , again go to General Tab and choose Submit Start Request .

Now you can test the Replication Between Two Database by selecting and deselection the tables from a Scott User.