



Informatica Power Center 9.0.1

Informatica Version Control Mechanism - Lab#35

Description:

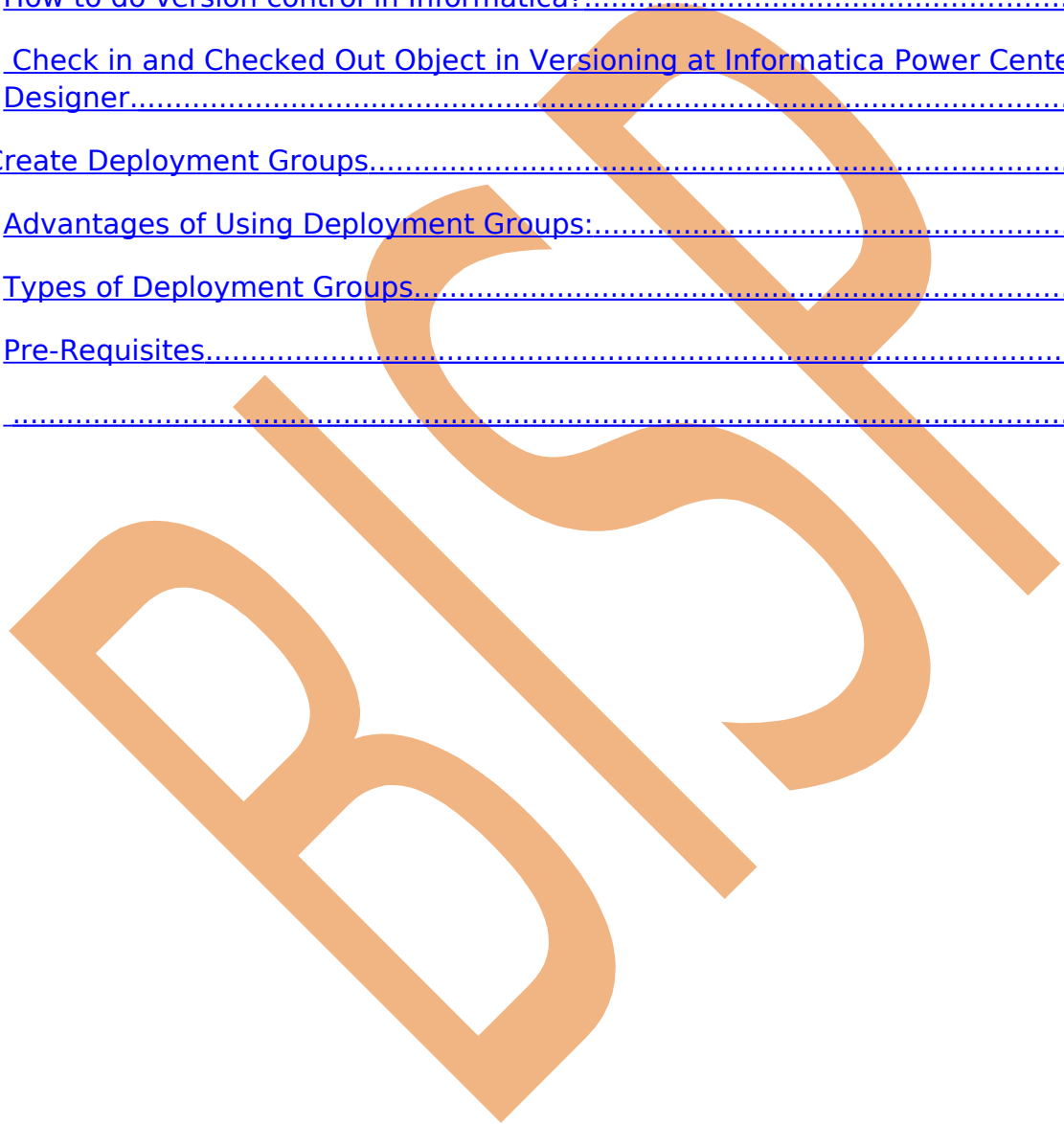
BISP is committed to provide BEST learning material to the beginners and advance learners. In the same series, we have prepared a complete end-to end Hands-on Guide for building financial data model in Informatica. The document focuses on how the real world requirement should be interpreted. The mapping document template with very simplified steps and screen shots makes the complete learning so easy. The document focuses on Version control mechanism. **Join our professional training program and learn from experts.**

History:

Version	Description Change	Author	Publish Date
0.1	Initial Draft	Upendra Upadhyay	12th Aug 2011
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What is Version Control

In Informatica Power Center, Version control helps to keep you history of you code changes. Version control tracks changes done for a code module and will enable to backtrack to the list of changes done for a period of time. Informatica versions objects to maintain history of changes. Informatica internally manages these changes and keeps history of each change. Whenever you want to go back to the previous version, you can switch back.

You can control the changes over source code. Developers can retain the multiple copies of source code and can give them a label (name). Informatica version control tracks the code changes. Informatica Version control retains the accountability for a source code change. In simple words you can identify that which developer has done what.

How to do version control in Informatica?

Code version control is gets operated by check-in and check-out options of Informatica.

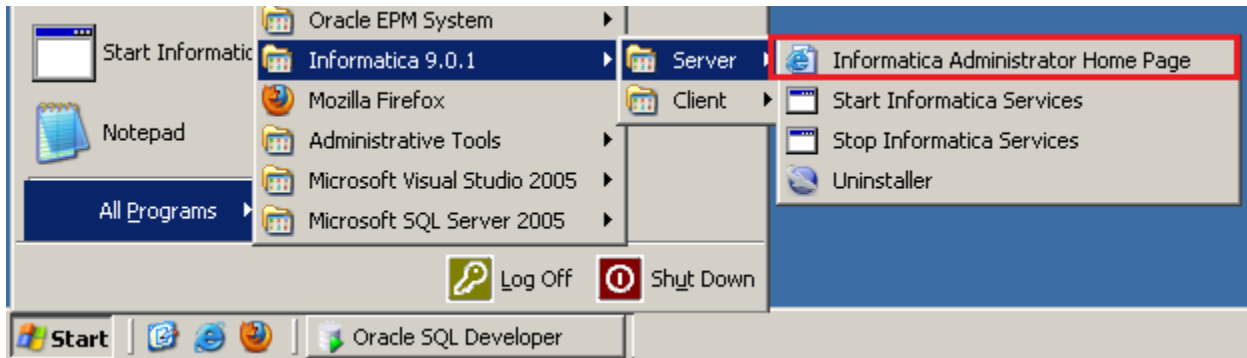
Check out: Check out the object if you want to modify code. Informatica will place write-intent lock to it. No other user can edit the object after check-out.

Check in: Save the object after editing. After check-in your changes will be visible to others. Now object can be edited by other user. write-intent lock will be released.

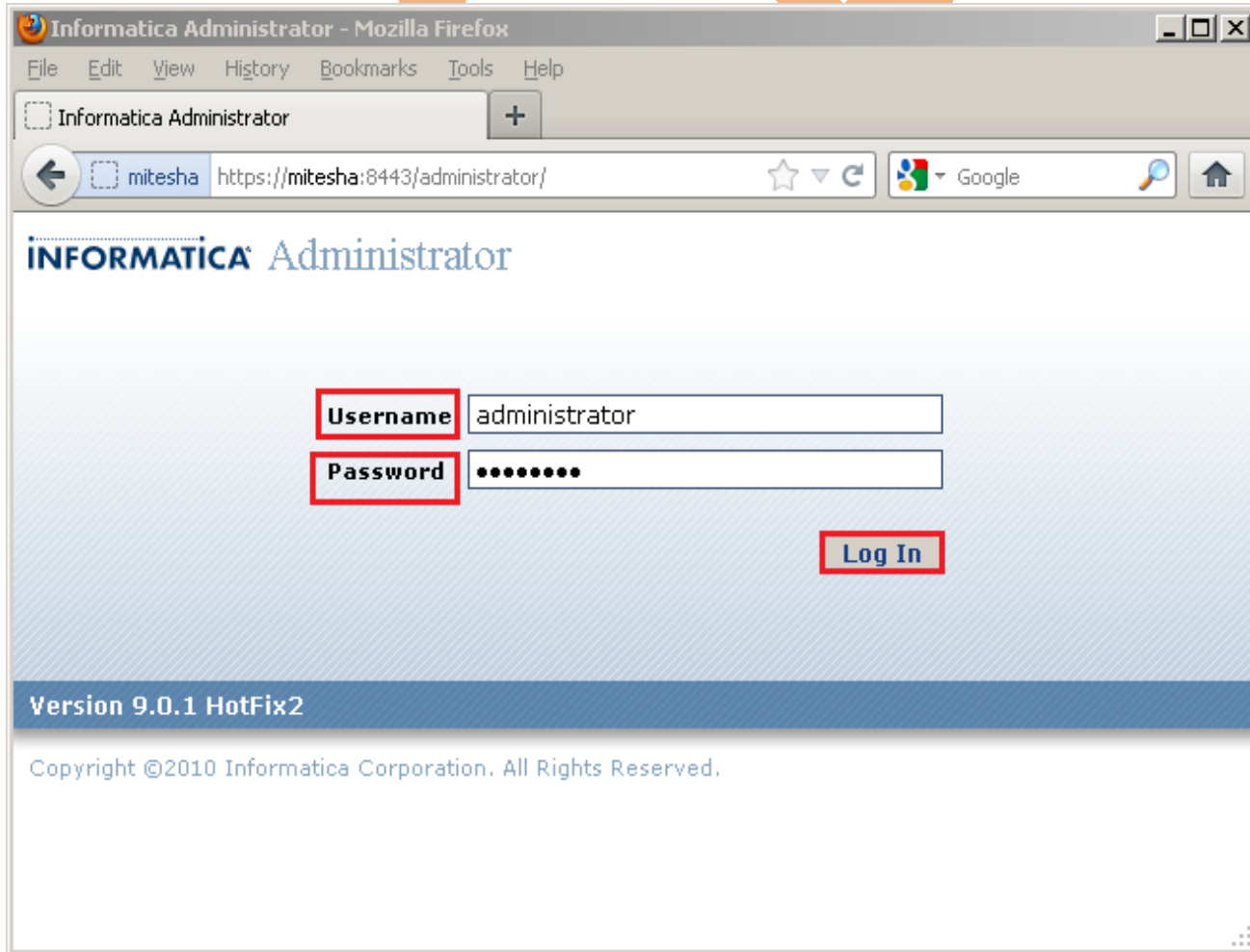
Undo Check-out: This option will rollback all the changes. Informatica will restore latest checked-in version to repository.

Configuring Version Control in Informatica Power Center Server 9.0.1

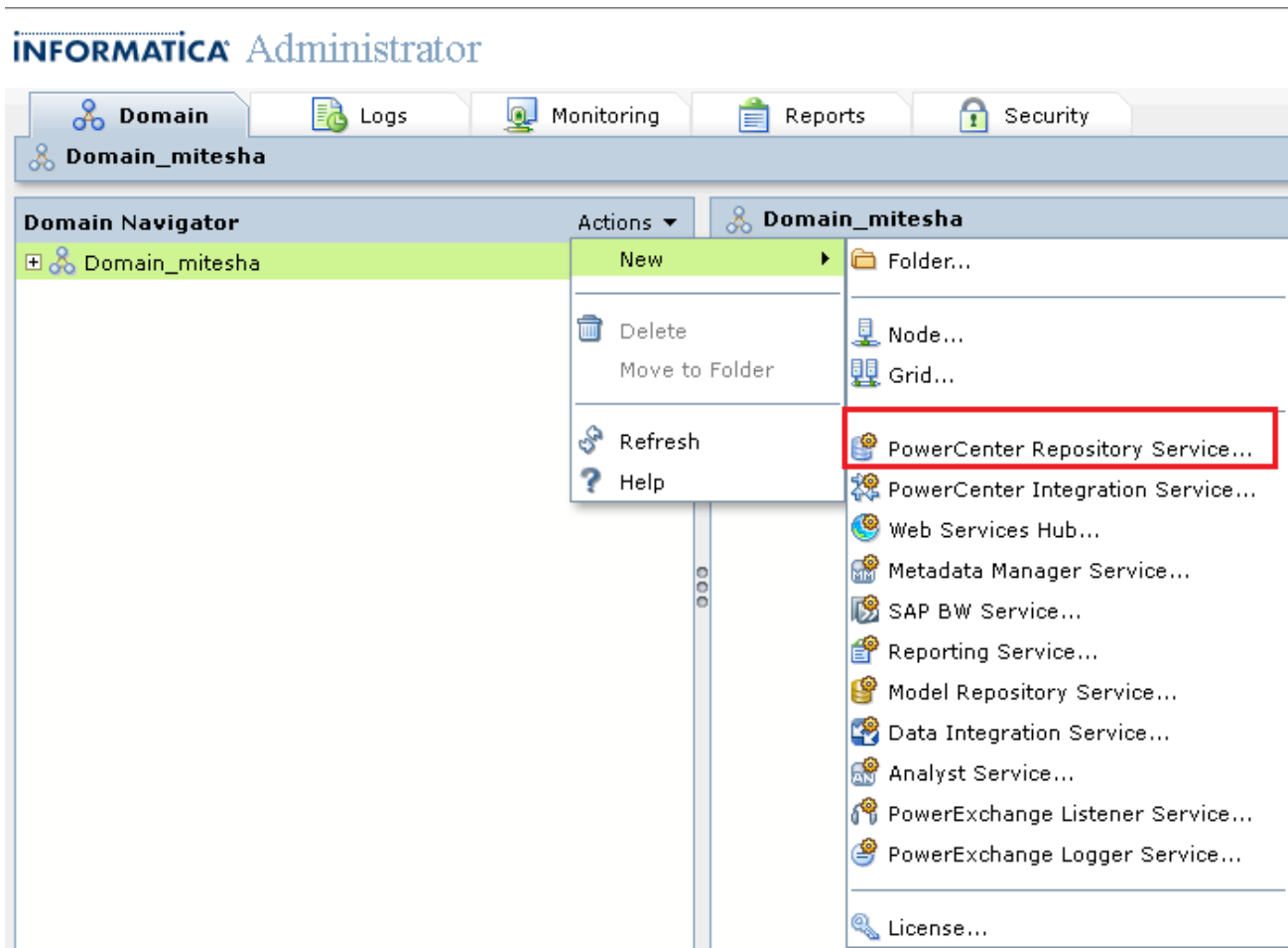
Step-1 Open Informatica Administrator, Click on Start ⇒ All Programs ⇒ Informatica 9.0.1 ⇒ Server ⇒ Informatica Administrator Home Page.



Step-2 Now specify Username and Password to connect admin console and then click on Log In Button.



Step-3 Select your Domain Name from Domain Navigator, and then click on Actions, select New and then click on PowerCenter Repository Service.



Step-4 Now specify the following information in new window and then click on Next button.

S.No	Property	Description
1	Repository Name	Your Repository Name. It is not contain space and special character.
2	Description	An optional description about the repository. The description field cannot exceed 765 characters.
3	Location	Select the Domain you have already created.
4	License	Select the license key from the drop down list.
5.	Node	Select the node name from the drop down list.

New PowerCenter Repository Service - Step 1 of 2

Specify the properties for this new PowerCenter Repository Service.

Name *

Description

Location *

License

Node *

Step-5 Now create username in RDBMS(Which RDBMS you are using such as Oracle, MSSQL Server, DB2 etc.). If you have created then skip this step.

The screenshot shows a SQL Developer window with the following content:

admin | 0.02526299 seconds

Enter SQL Statement:

```
create user bispsolutions identified by password;
grant dba,connect,resource to bispsolutions;
```

The tree view on the right shows the following structure:

- Other Users
 - ANONYMOUS
 - APEX_PUBLIC_USER
 - BI
 - BISPSOLUTIONS
 - Tables
 - Views
 - Indexes
 - Packages
 - Procedures
 - Functions
 - Triggers
 - Types
 - Sequences
 - Materialized Views
 - Materialized Views Log
 - Synonyms
 - Database Links
 - Directories
 - XML Schemas
 - Recycle Bin

A red arrow points from the 'BISPSOLUTIONS' user in the tree view to the SQL statement in the editor.

Step-6 Now specify the following information in new window and select no content exists under specified connection string. Create new content and select Enable version control then click on Finish button.

S.No	Property	Description
1	Database Type	Choose Database from dropdown list.
2	Username	Specify Username for Informatica power center repository.
3	Password	Specify password of Username.
4	Connection String	Connection string of RDBMS.
5.	Code Page	This is Repository code page. The Power Center Repository services uses the character set encoded in the repository code page when writing data to the repository. You cannot change the code page in the Power Center Repository Service properties after you create the Power Center Repository Service .
6.	Tablespace Name	This field for IBM DB2 repositories.

New PowerCenter Repository Service - Step 2 of 2

Specify the database properties for this new PowerCenter Repository Service.

Database Type * Oracle

Username * bispsolutions

Password *

Connection String * orcl

Code Page * MS Windows Latin 1 (ANSI), superset of Latin1

Tablespace Name

Specify the creation options for the new PowerCenter Repository Service.

Content exists under specified connection string. Do not create new content.

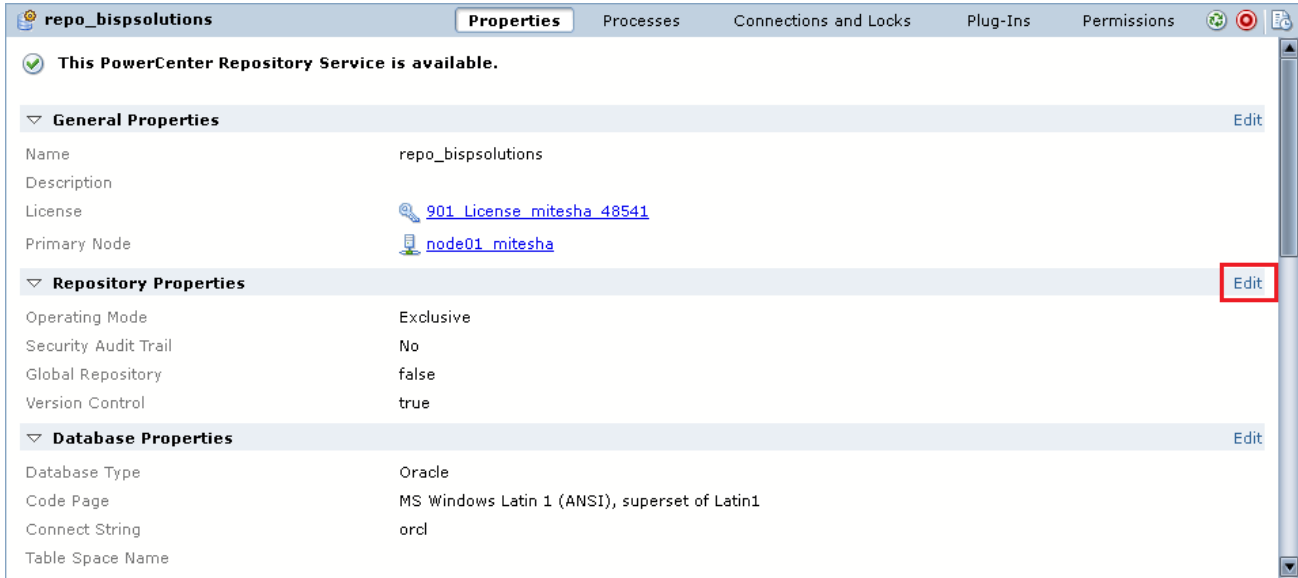
No content exists under specified connection string. Create new content.

Create as Global Repository (May not be reverted to local)

Enable version control (A versioned repository cannot be unversioned)

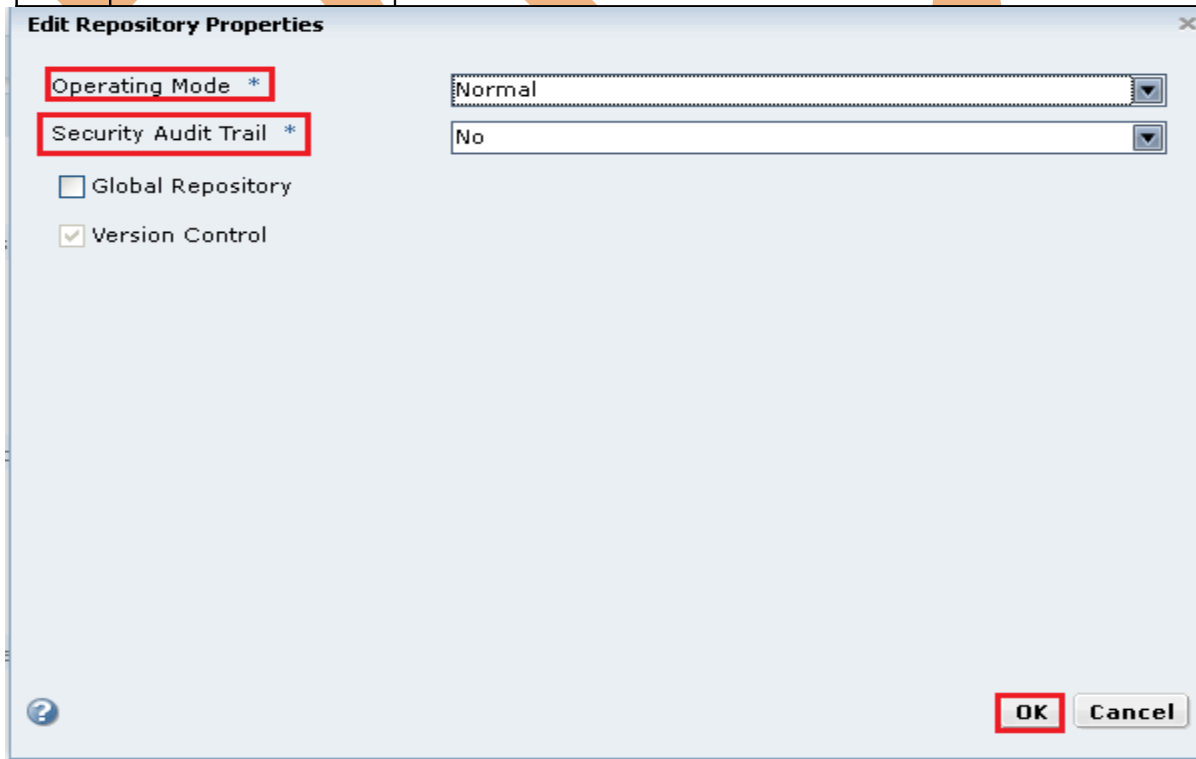
Enable the PowerCenter Repository Service

Step-7 It takes couple of minutes to create Repository content. After the repository creation below screen will be appears.

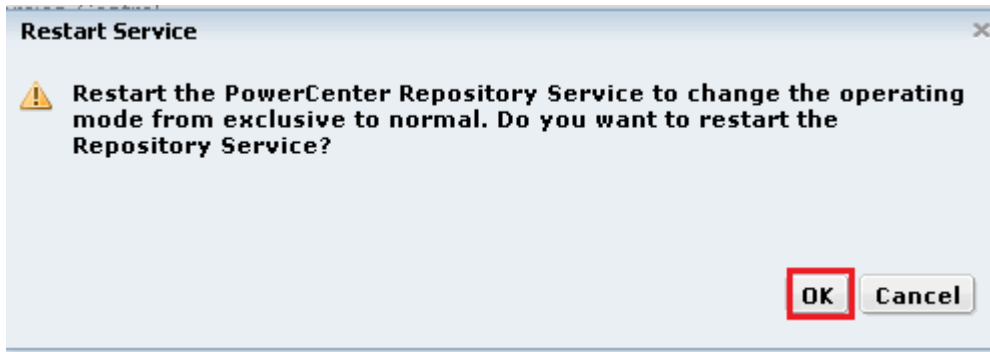


Step-8 A pop up window appears, Set the properties as Operation Mode - Normal and Security Audit Trail - No. Then click on OK button.

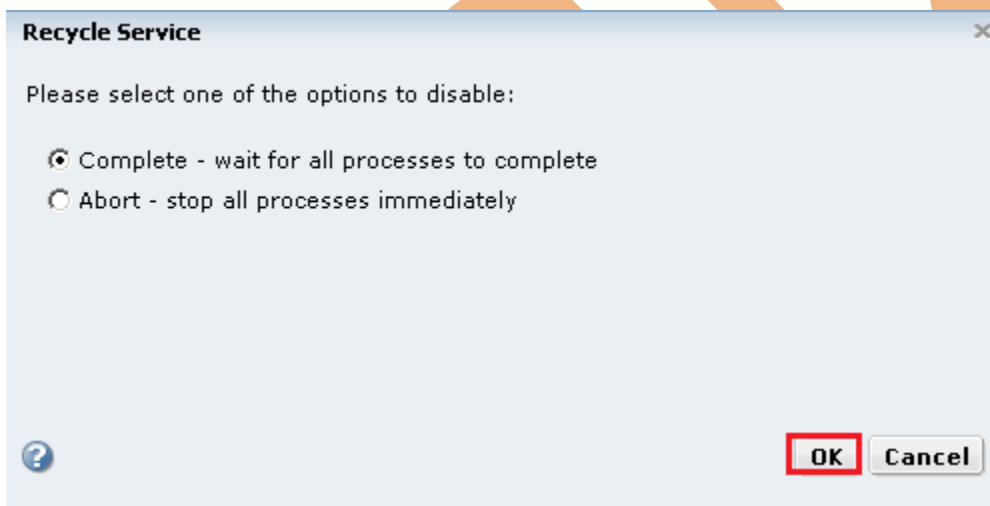
S.No	Property	Description
1	Operation Mode	In which the PowerCenter Repository Service is running.
2	Security Audit Trail	This is Tracks changes made to users, groups, privileges, and permissions.



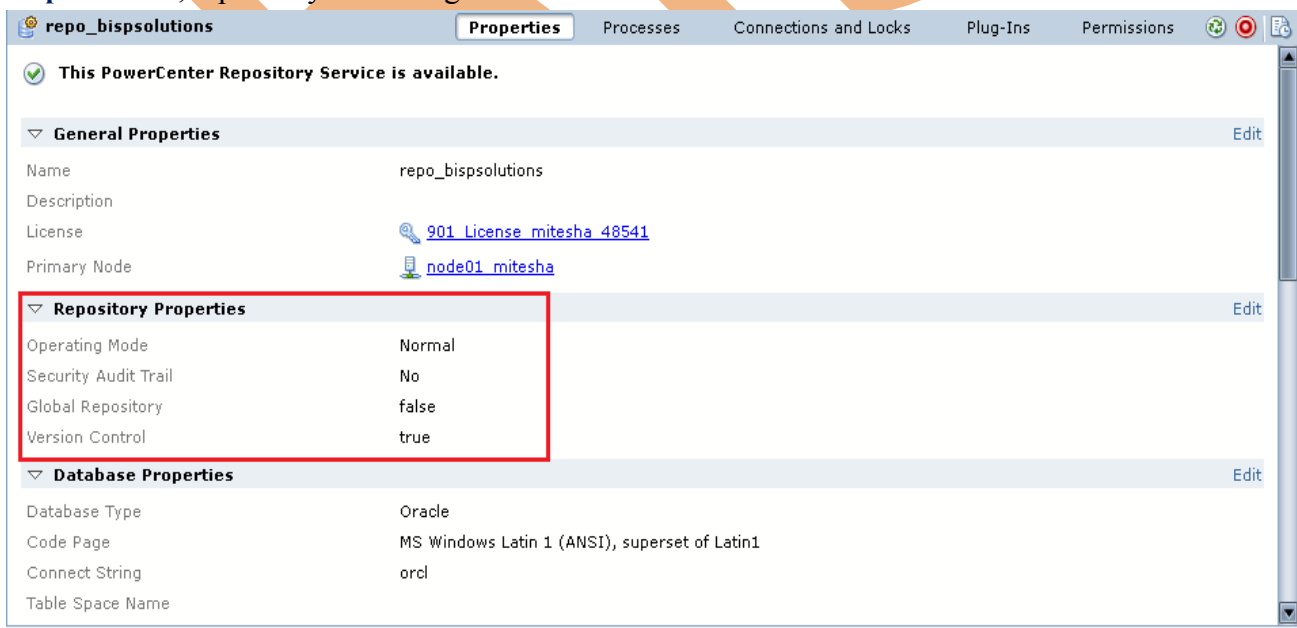
Step-9 Click on OK button.



Step-10 Select option according to you and then click OK button.

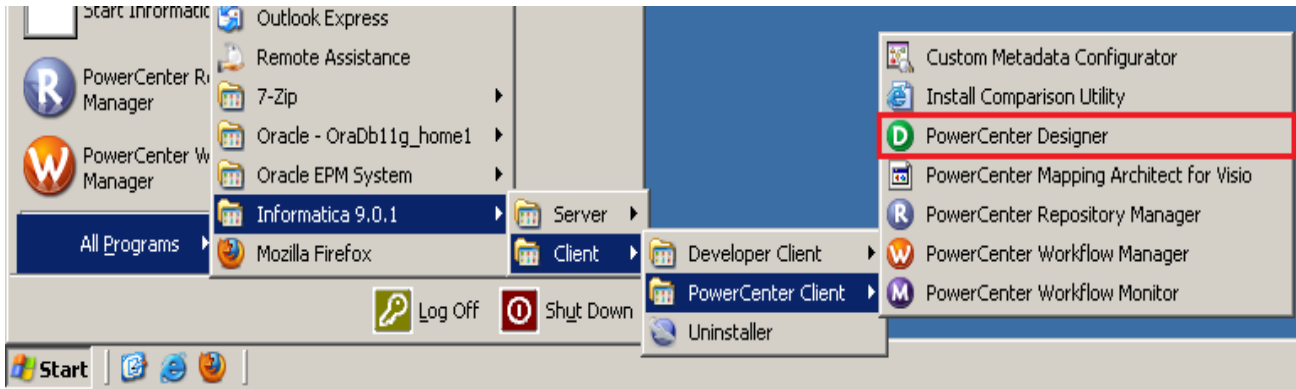


Step-11 Now, repository is running on Normal mode.

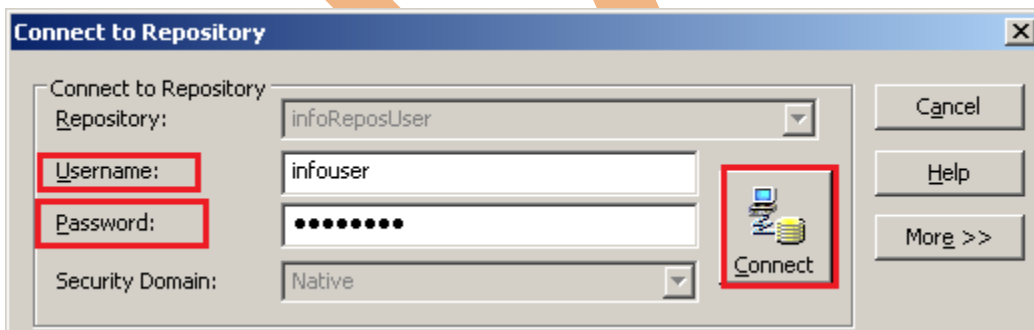
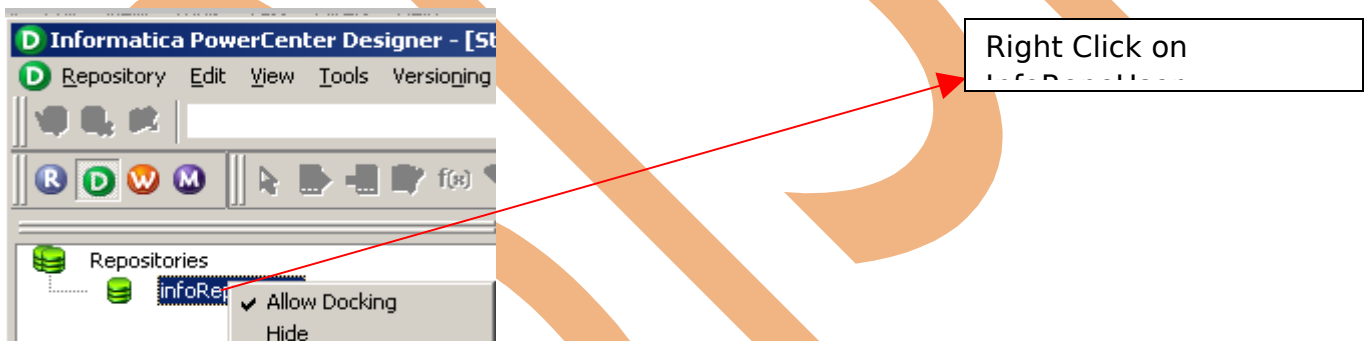


Check in and Checked Out Object in Versioning at Informatica Power Center Designer.

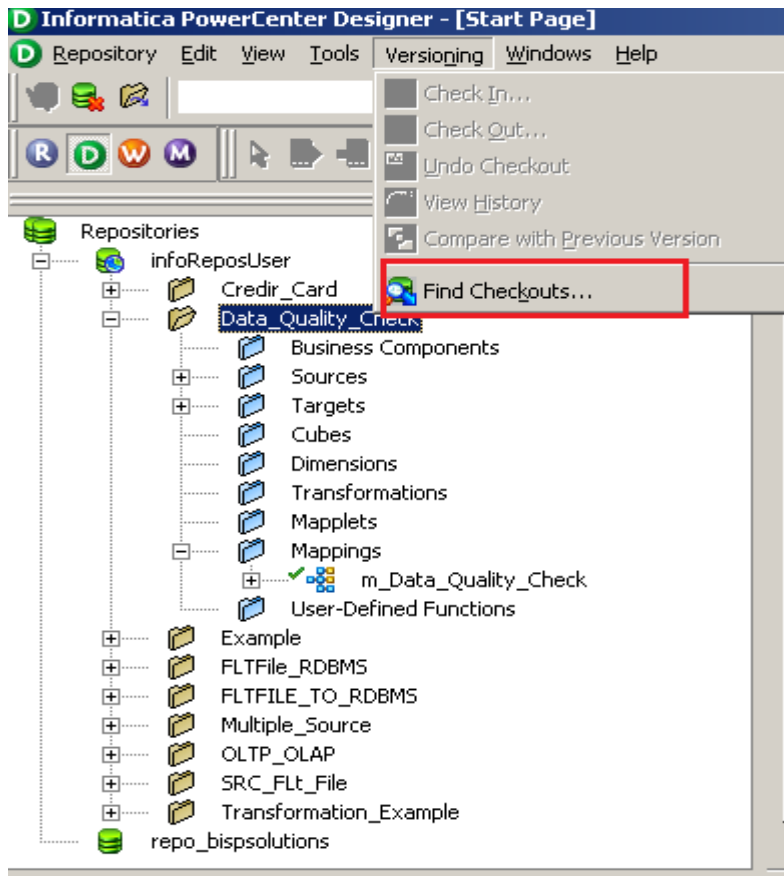
Step-1 Open Informatica Power Center Designer, Click on Start ➡ All Programs ➡ Informatica 9.0.1 ➡ Client ➡ PowerCenter Designer.



Step-2 Then Connect to Repository in Informatica Power Center Designer Right click on repository name and then click on Connect. Give Username and Password and then click on Connect.

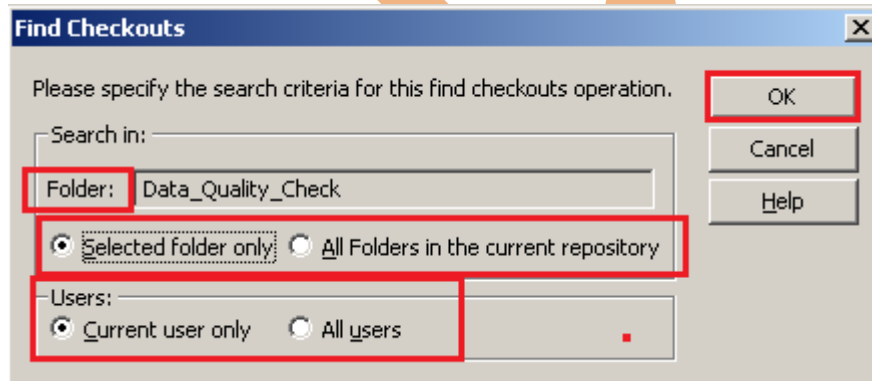


Step-3 Then go to Menu bar and click on Versioning, and then click on Find Checkouts.



Step-4 Now, Select Folder option, Selected folder only or All Folder in the current repository and select Users, Current user only or All users and then click on OK button.

- **By folder.** Search for checkouts in the selected folder, or search all folders in the current repository.
- **By user.** Search for checkouts in current user only, or search for objects checked out by all users in the current repository.



Step-5 Here, all sources and target table and also mapping. If your folder contain reusable mapplet and transformation then these objects also will be in this window.

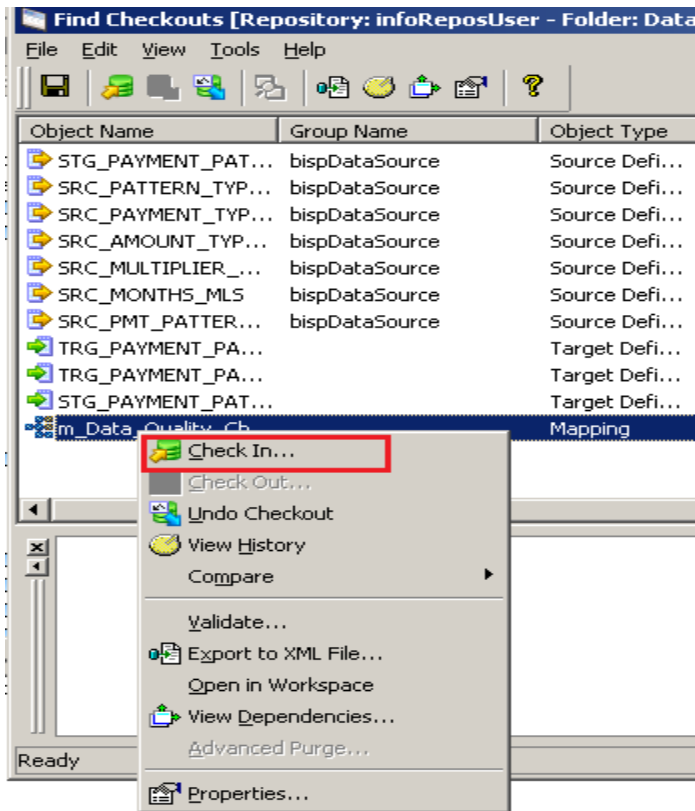
The screenshot shows a 'Find Checkouts' window with a table of objects and a secondary table below it.

Object Name	Group Name	Object Type	Time Stamp	Version Comments	Folder Name	User Name	Host Name	Is Mo...	Checkin Time
STG_PAYMENT_PAT...	bispDataSource	Source Defi...	01/24/2013 15:52:26		Data_Quality_Check	infouser	mitasha	No	----
SRC_PATTERN_TYP...	bispDataSource	Source Defi...	01/24/2013 15:52:25		Data_Quality_Check	infouser	mitasha	No	----
SRC_PAYMENT_TYP...	bispDataSource	Source Defi...	01/24/2013 15:20:20		Data_Quality_Check	infouser	mitasha	No	----
SRC_AMOUNT_TYP...	bispDataSource	Source Defi...	01/24/2013 15:52:25		Data_Quality_Check	infouser	mitasha	No	----
SRC_MULTIPLIER...	bispDataSource	Source Defi...	01/24/2013 15:20:20		Data_Quality_Check	infouser	mitasha	No	----
SRC_MONTHS_MLS	bispDataSource	Source Defi...	01/24/2013 15:52:25		Data_Quality_Check	infouser	mitasha	No	----
SRC_PMT_PATTER...	bispDataSource	Source Defi...	01/24/2013 15:52:25		Data_Quality_Check	infouser	mitasha	No	----
TRG_PAYMENT_PA...		Target Defi...	01/19/2013 17:24:35		Data_Quality_Check	infouser	mitasha	No	----
TRG_PAYMENT_PA...		Target Defi...	01/23/2013 13:39:29		Data_Quality_Check	infouser	mitasha	No	----
STG_PAYMENT_PAT...		Target Defi...	01/22/2013 17:50:53		Data_Quality_Check	infouser	mitasha	No	----
m_Data_Quality_Ch...		Mapping	02/01/2013 12:14:30		Data_Quality_Check	infouser	mitasha	No	----

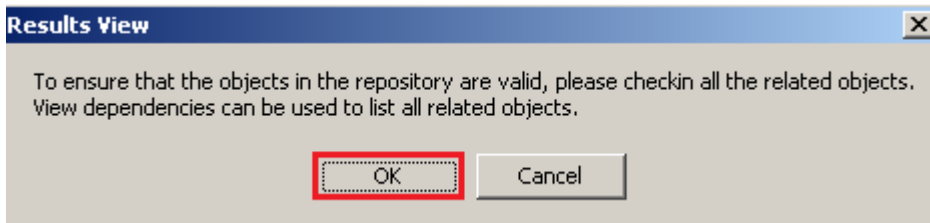
Label Name	User Name	Time Stamp	Co
No items to be displayed in this view.			

Ready Total: 11 Selected: 0

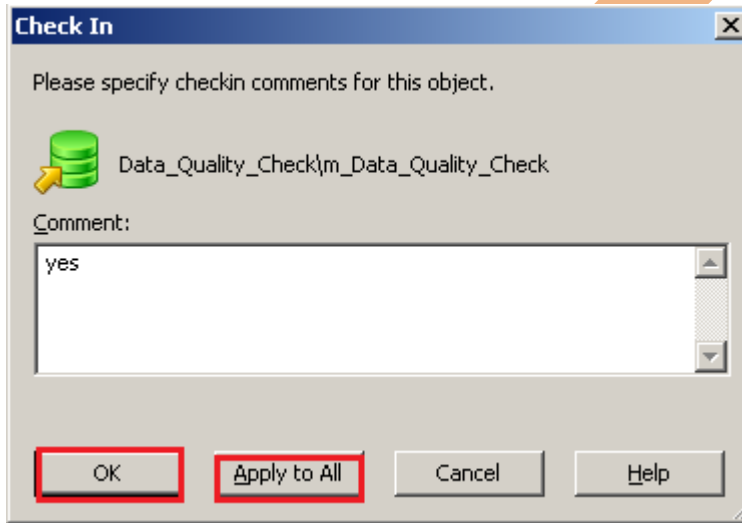
Step-6 Now, right click on mapping and select Check In for check the mapping.



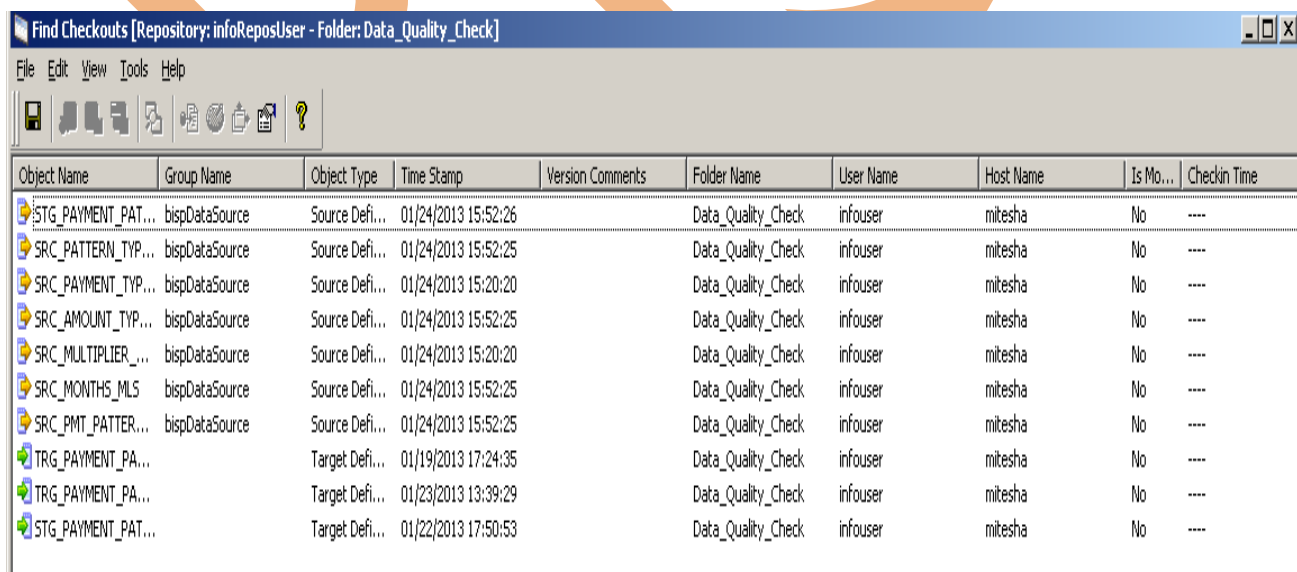
Step-7 Click OK button in this window.



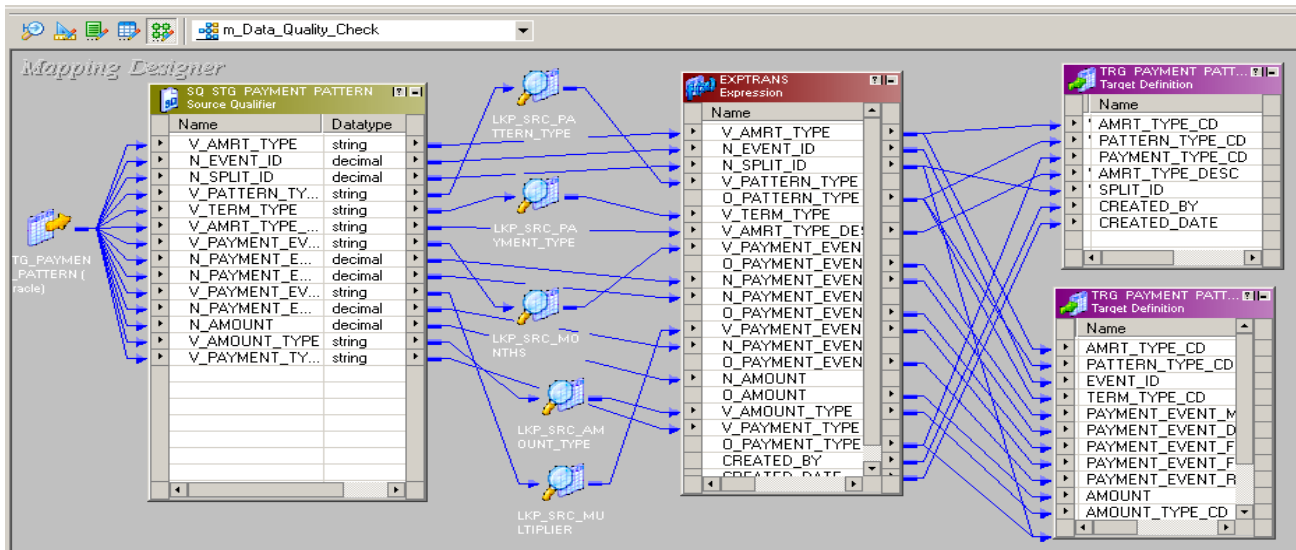
Step-8 give comment and click on Apply to All button.



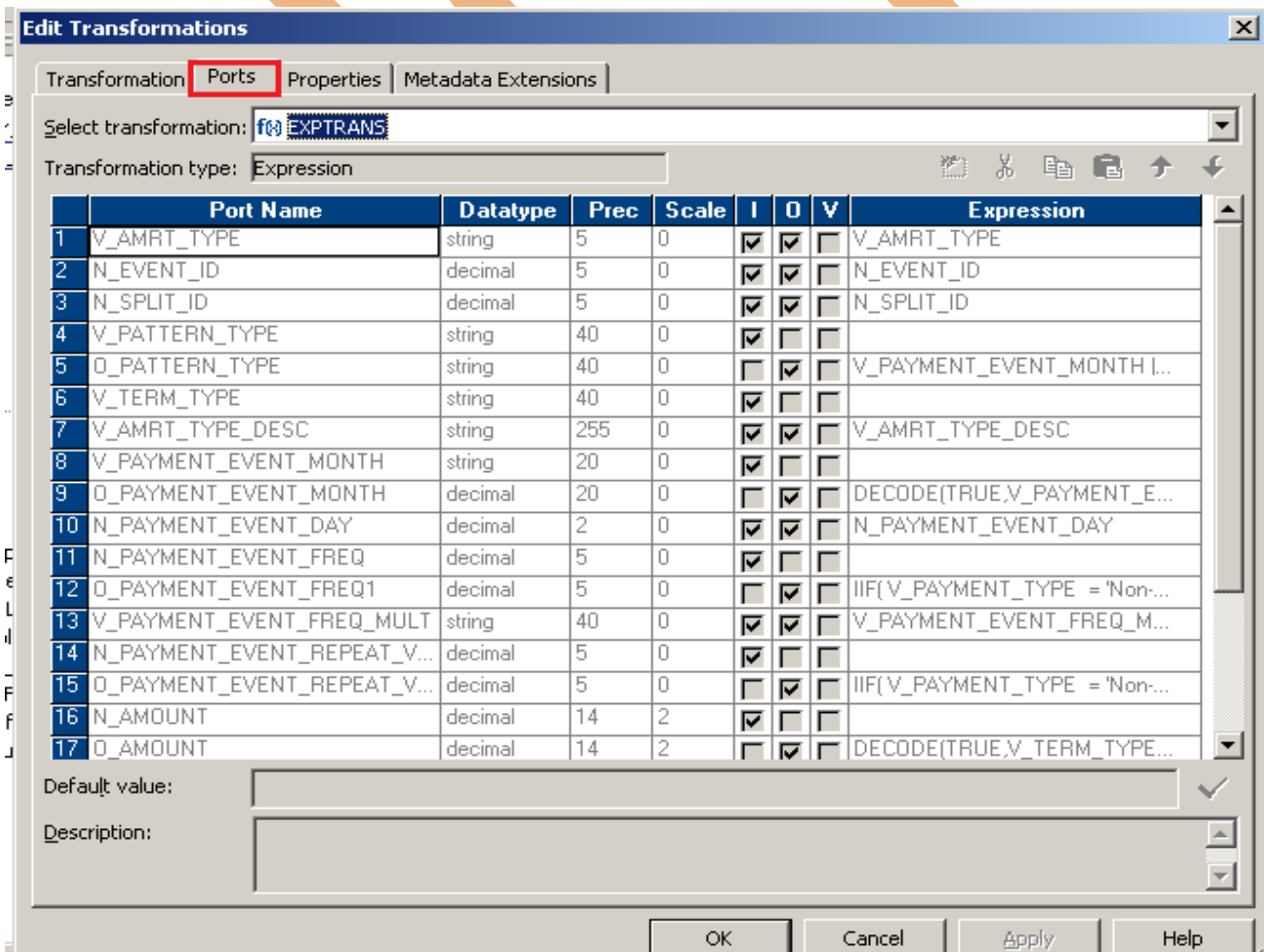
Step-9 Now, Check In mapping will not be visible here.



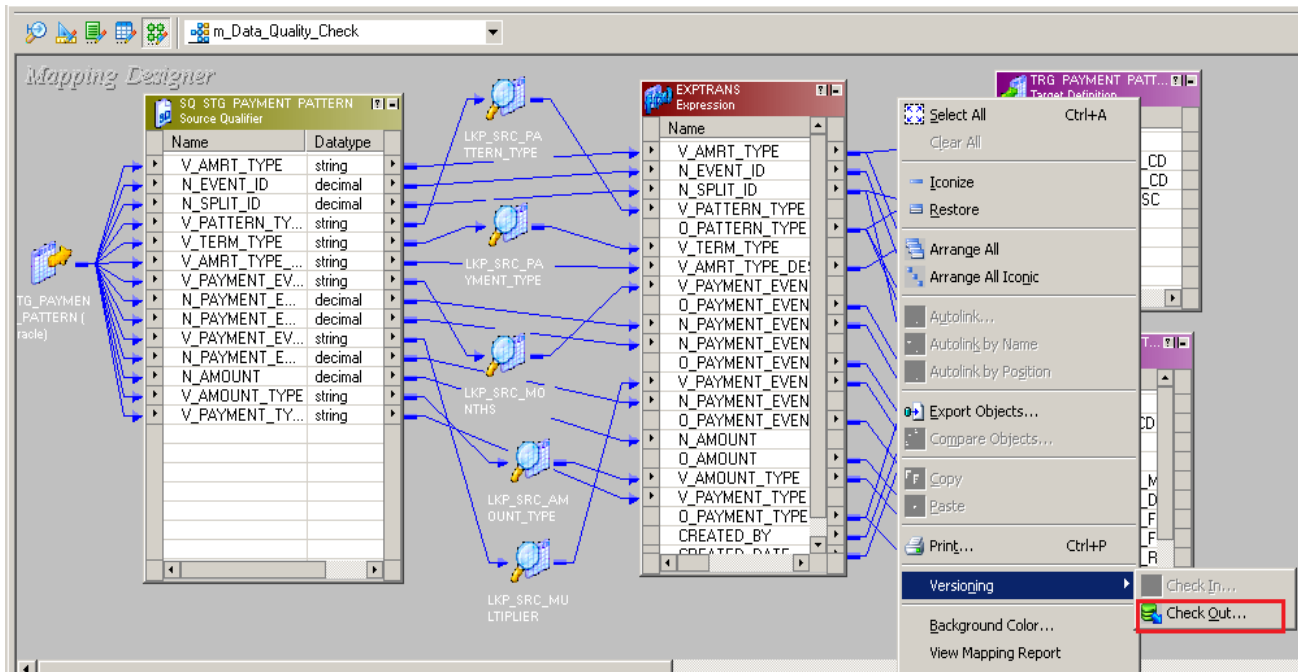
Step-10 Now, Check mapping. Right click on expression transformation and select Edit.



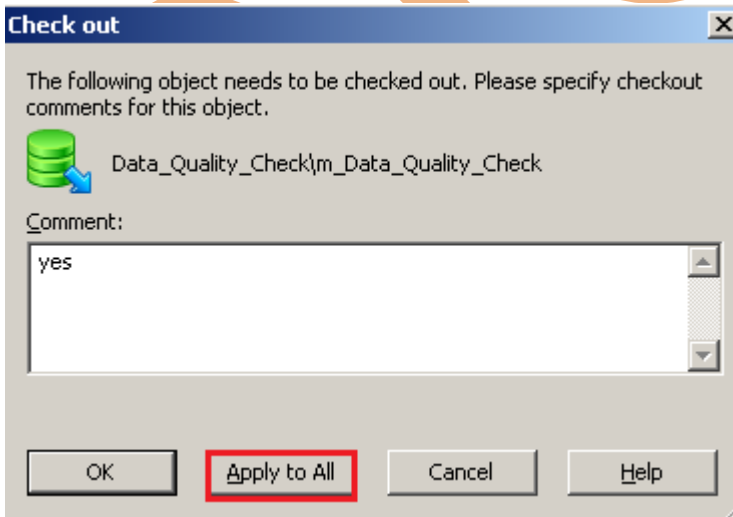
Step-11 Here, you can not edit your mapping.



Step-12 Now, right click on mapping window for Check out, and select Check Ot.



Step-13 Give comment.



Step-14 Now, you can edit your mapping.

Edit Transformations

Transformation **Ports** Properties Metadata Extensions

Select transformation: **EXPTRANS**

Transformation type: Expression

	Port Name	Datatype	Prec	Scale	I	O	V	Expression
1	V_AMRT_TYPE	string	5	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V_AMRT_TYPE
2	N_EVENT_ID	decimal	5	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N_EVENT_ID
3	N_SPLIT_ID	decimal	5	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N_SPLIT_ID
4	V_PATTERN_TYPE	string	40	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	O_PATTERN_TYPE	string	40	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V_PAYMENT_EVENT_MONTH [...]
6	V_TERM_TYPE	string	40	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	V_AMRT_TYPE_DESC	string	255	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V_AMRT_TYPE_DESC
8	V_PAYMENT_EVENT_MONTH	string	20	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9	O_PAYMENT_EVENT_MONTH	decimal	20	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DECODE(TRUE,V_PAYMENT_E...
10	N_PAYMENT_EVENT_DAY	decimal	2	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N_PAYMENT_EVENT_DAY
11	N_PAYMENT_EVENT_FREQ	decimal	5	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12	O_PAYMENT_EVENT_FREQ1	decimal	5	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IIF(V_PAYMENT_TYPE = 'Non...
13	V_PAYMENT_EVENT_FREQ_MULT	string	40	0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	V_PAYMENT_EVENT_FREQ_M...
14	N_PAYMENT_EVENT_REPEAT_V...	decimal	5	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15	O_PAYMENT_EVENT_REPEAT_V...	decimal	5	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IIF(V_PAYMENT_TYPE = 'Non...
16	N_AMOUNT	decimal	14	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17	O_AMOUNT	decimal	14	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DECODE(TRUE,V_TERM_TYPE...

Default value:

Description:

OK Cancel Apply Help

Create Deployment Groups

Deployment Groups - The use of Deployment Groups in versioned repositories for migrations between distributed environments allows the most flexibility and convenience. With the help of Deployment Groups, you can migrate individual objects as you would in an object copy migration and also have the convenience of a repository or folder-level migration as all objects are deployed at once.

Advantages of Using Deployment Groups:

- Backup and Restore of the Repository needs to be performed only once.
- Copying a Folder replaces the previous copy.
- Copying a Mapping allows for different names to be used for the same object

Types of Deployment Groups

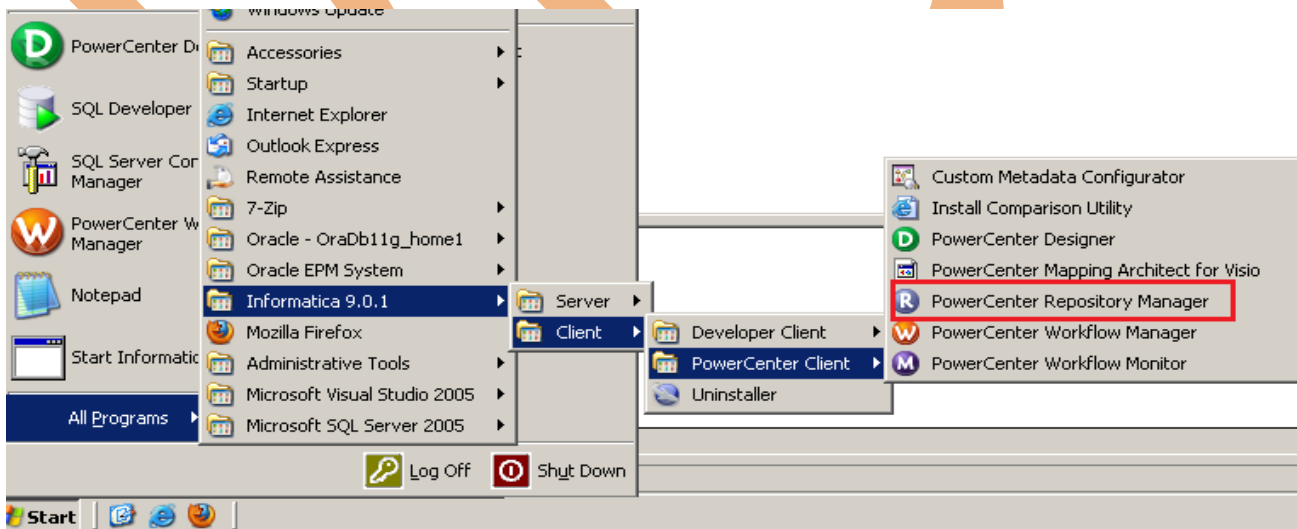
- Static
- Dynamic

Pre-Requisites

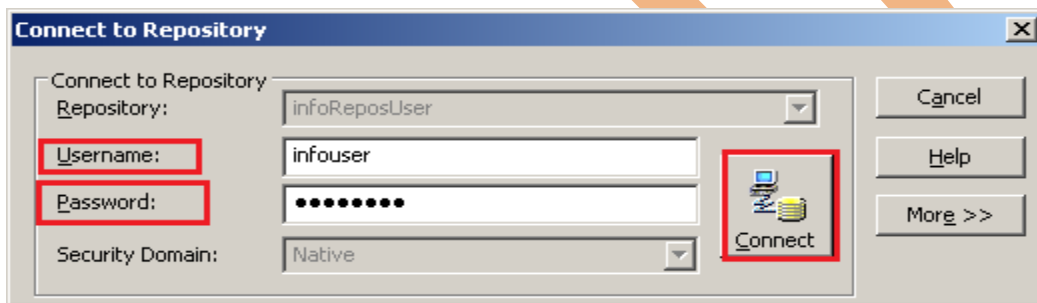
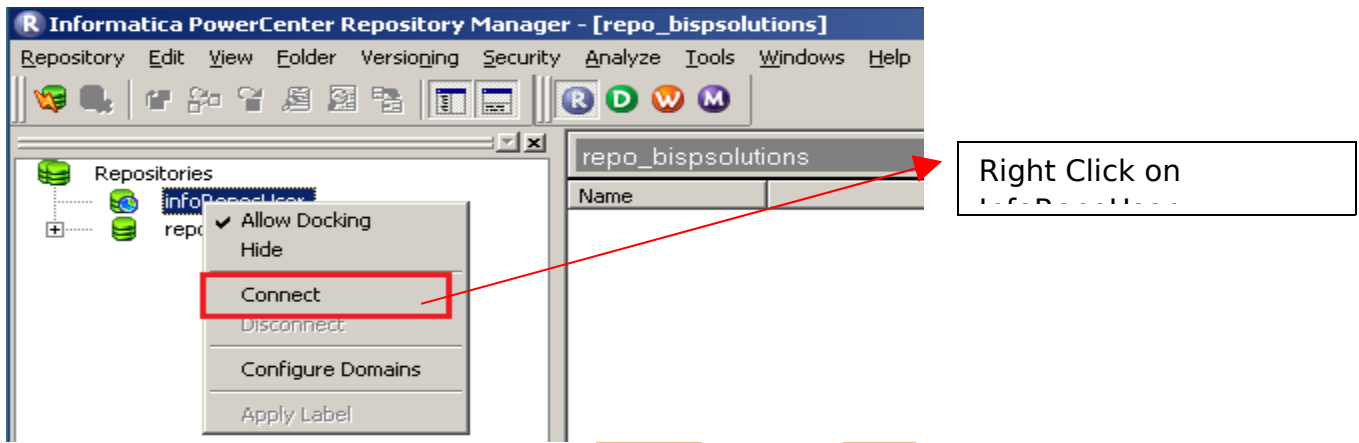
Following pre-requisites for creating Deployment groups.

- Creating Labels
- Apply Label

Step-1 Open Informatica Power Center Designer, Click on Start → All Programs → Informatica 9.0.1 → Client → PowerCenter Repository Manager.

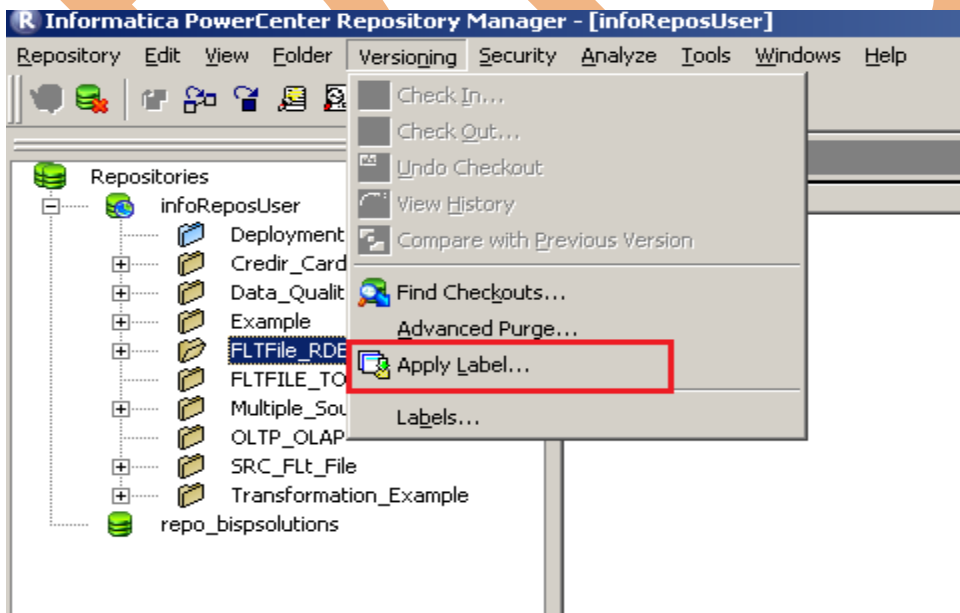


Step-2 Then Connect to Repository in Informatica Power Center Designer Right click on repository name and then click on Connect. Give Username and Password and then click on Connect.

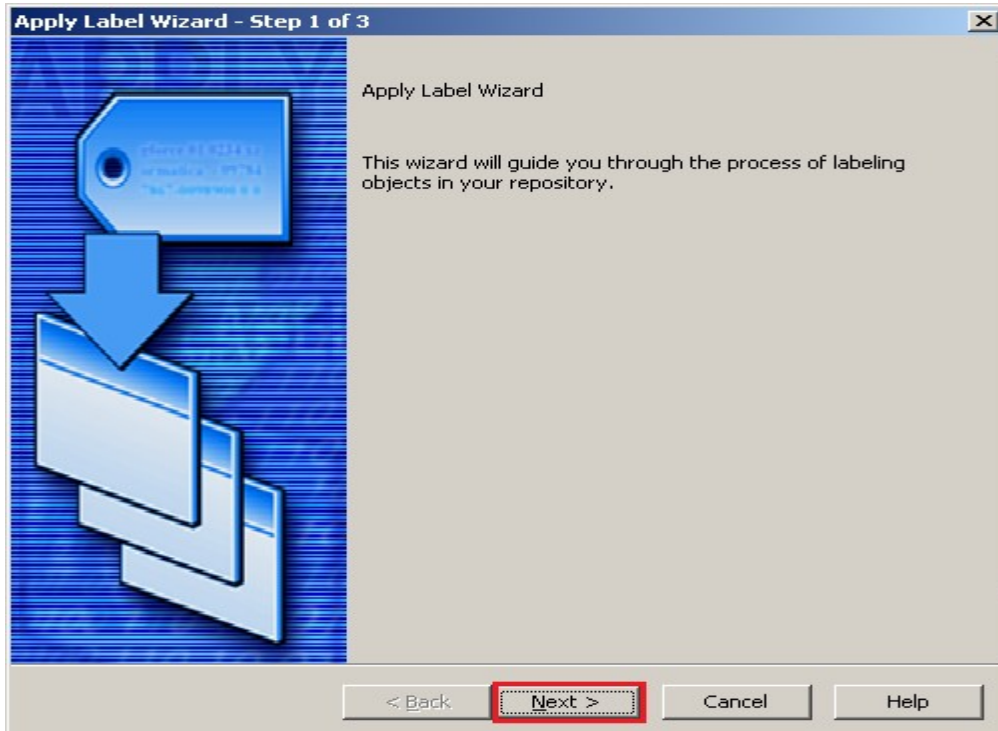


Step-3 Select Folder and go to Menu bar, click on Versioning menu and then click on Apply Label.

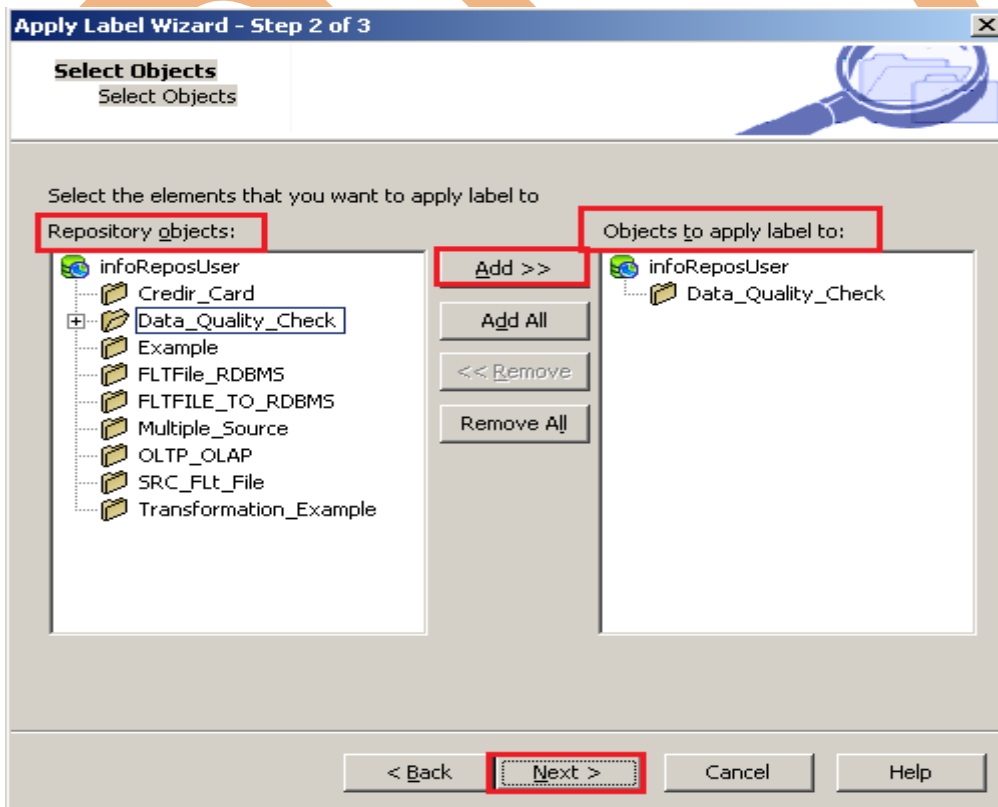
Label - label is a global object that you can associate with any versioned object or group of versioned objects in a repository.



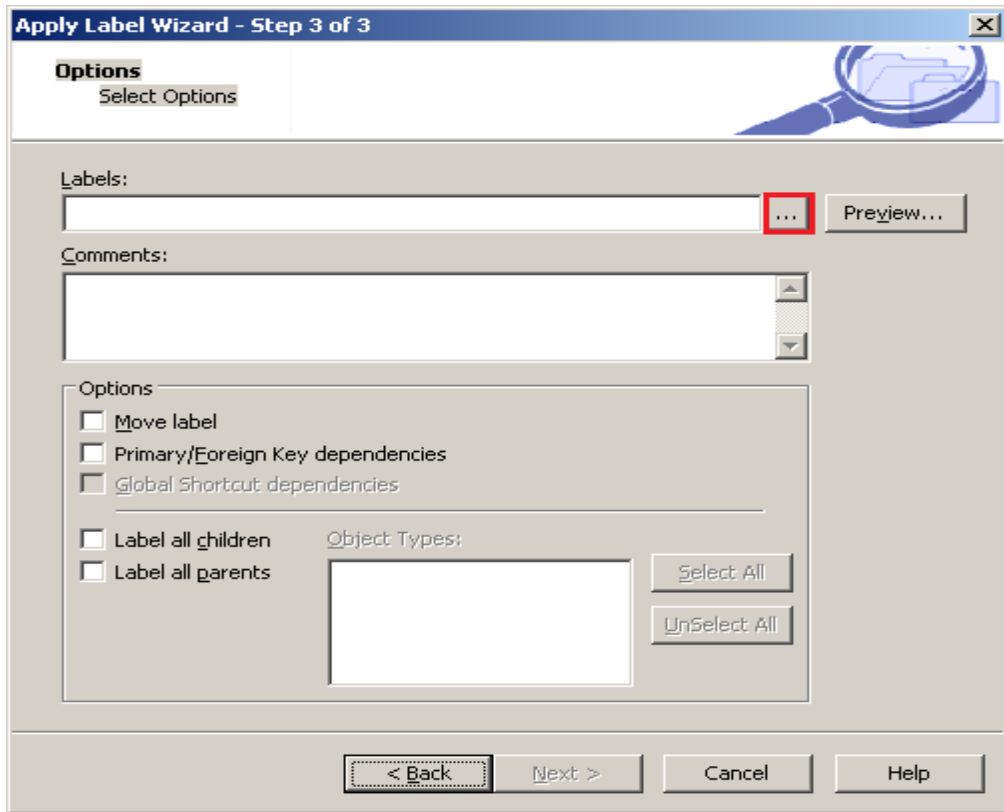
Step-4 And then click on Next button for Apply Label Wizard.



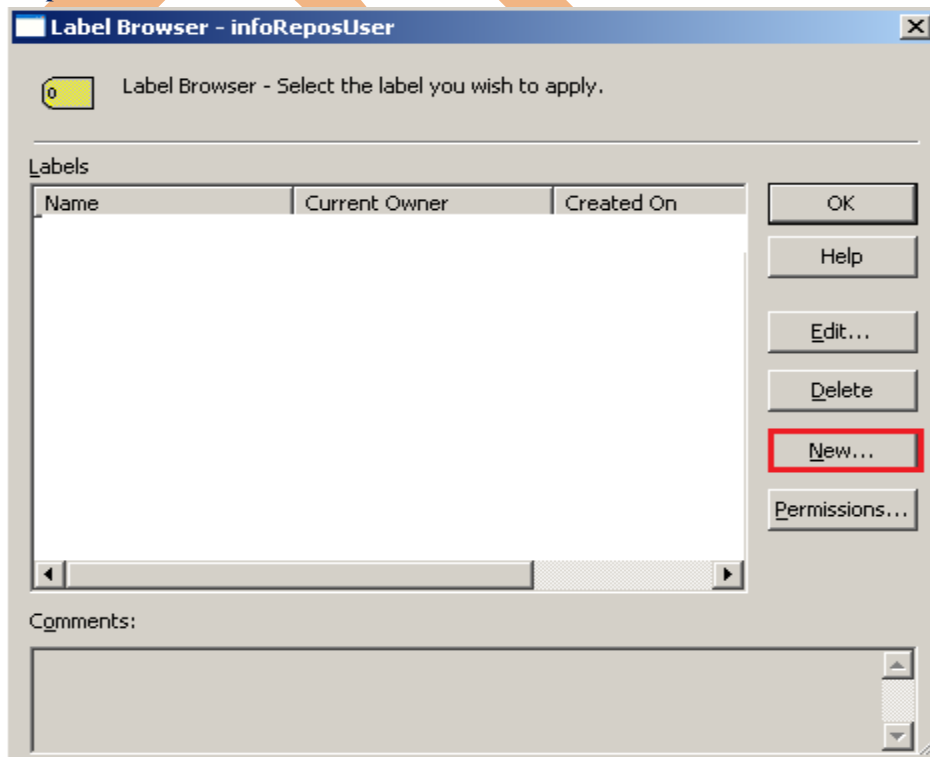
Step-5 Select Folder and Add into Objects to apply label to Group.



Step-6 Click on browse button to add label



Step-7 Click on New button to add label in Label Browser.



Step-8 Give name of Label and click on OK button.

Label Editor

Label Editor

Name: Label0 **OK**

Created by: infouser **Cancel**

Created on: 02/09/2013 16:28:18 **Help**

Lock label

Comments:

Step-9 And then click OK button

Label Browser - infoReposUser

Label Browser - Select the label you wish to apply.

Name	Current Owner	Created On
Label0	infouser	02/09/2013 15:32:

OK

Help

Edit...

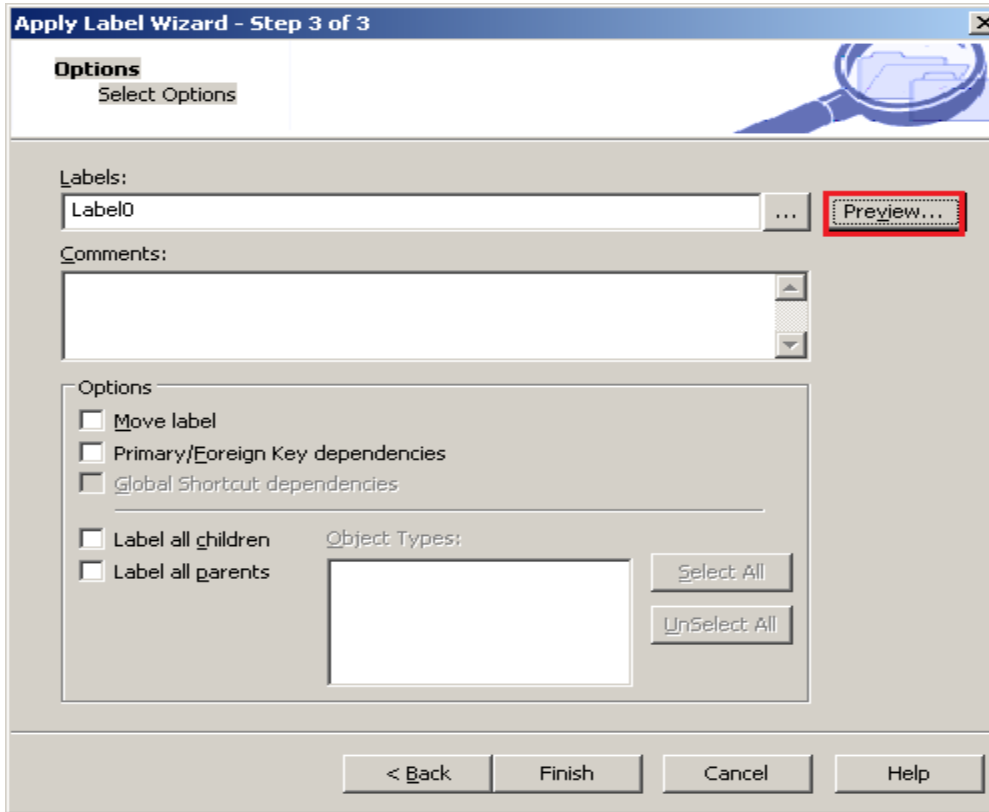
Delete

New...

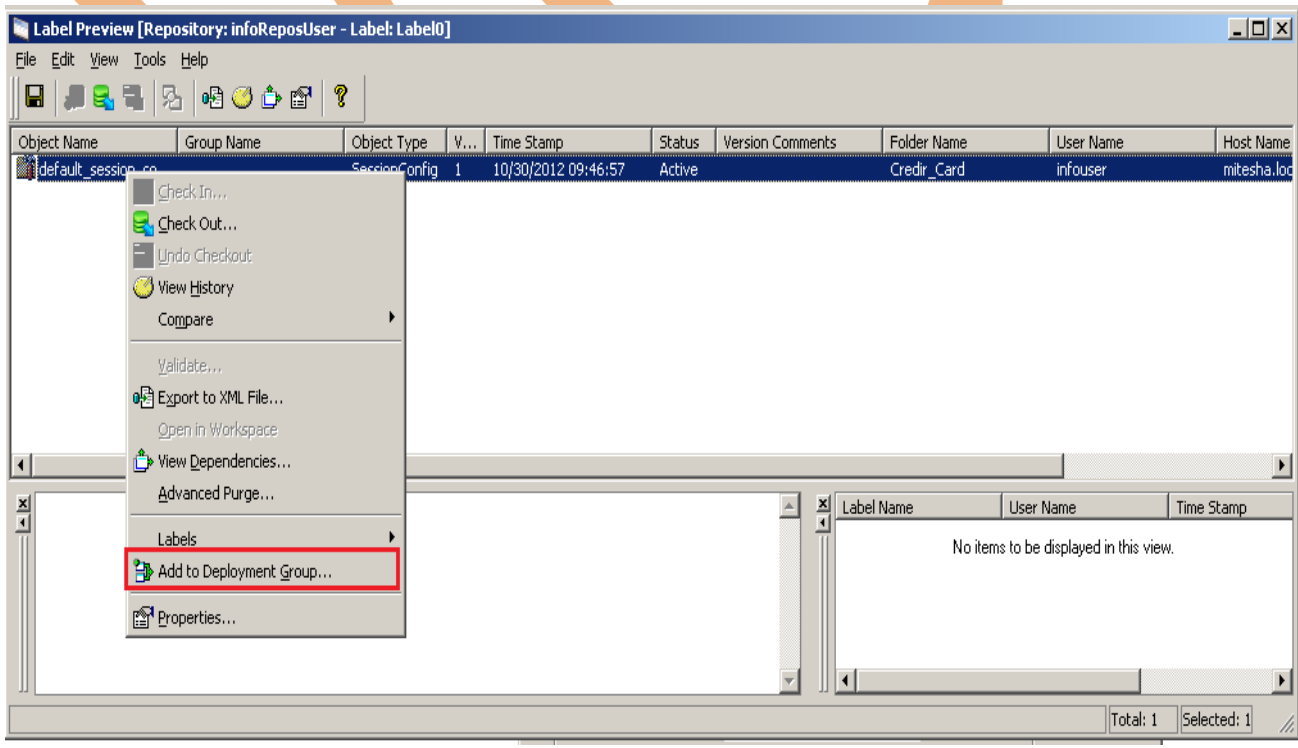
Permissions...

Comments:

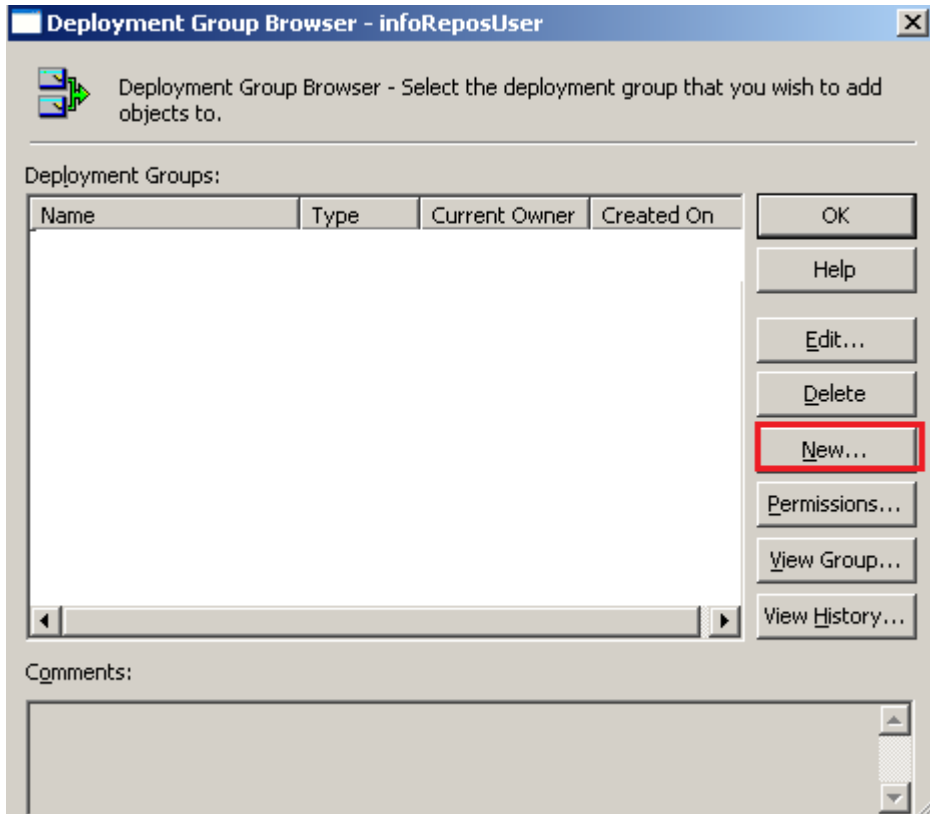
Step-10 Now click on Preview button to add Deployment Groups.



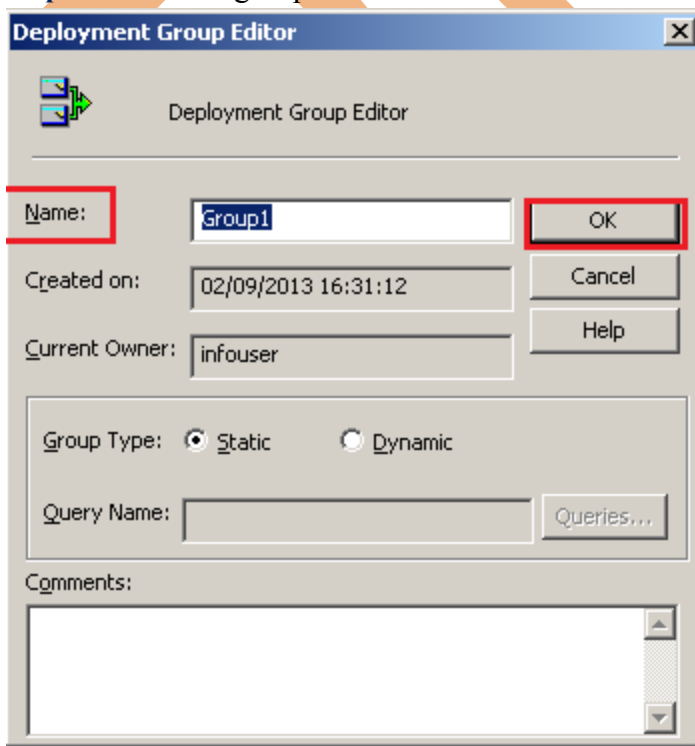
Step-11 Right click on Object Name and select Add to Deployment Groups.



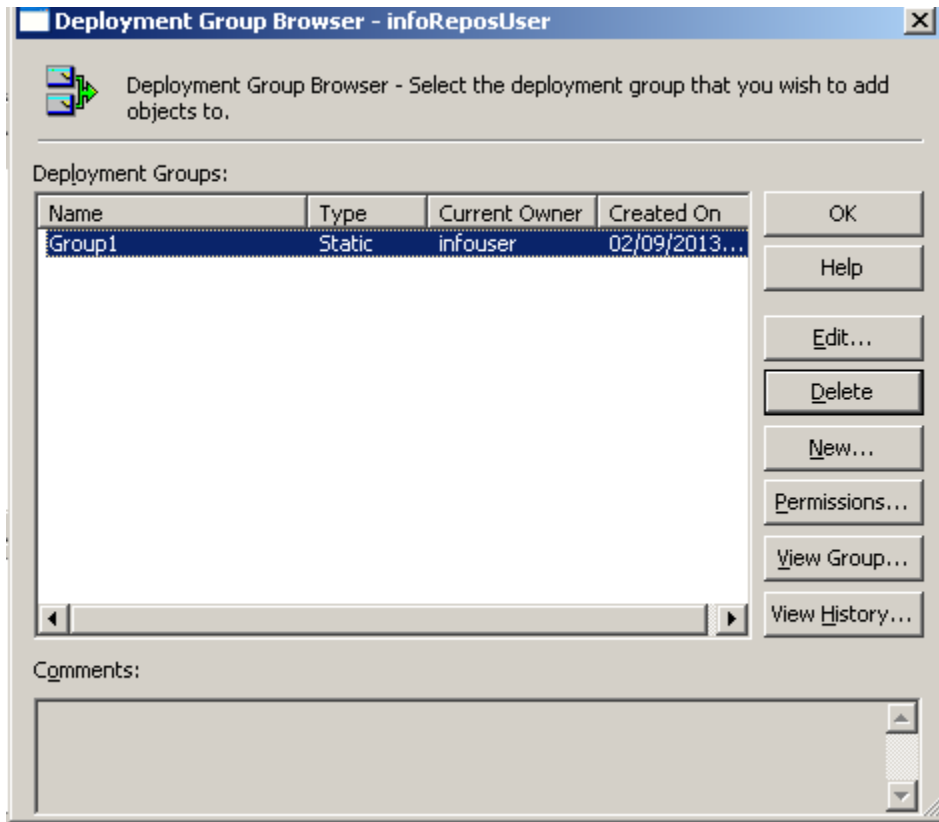
Step-12 Click on New button to add Group.



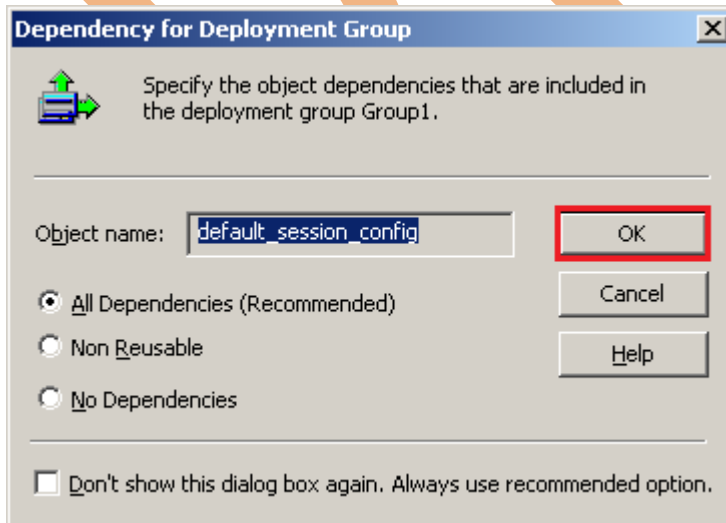
Step-13 Name of group and click on OK button.



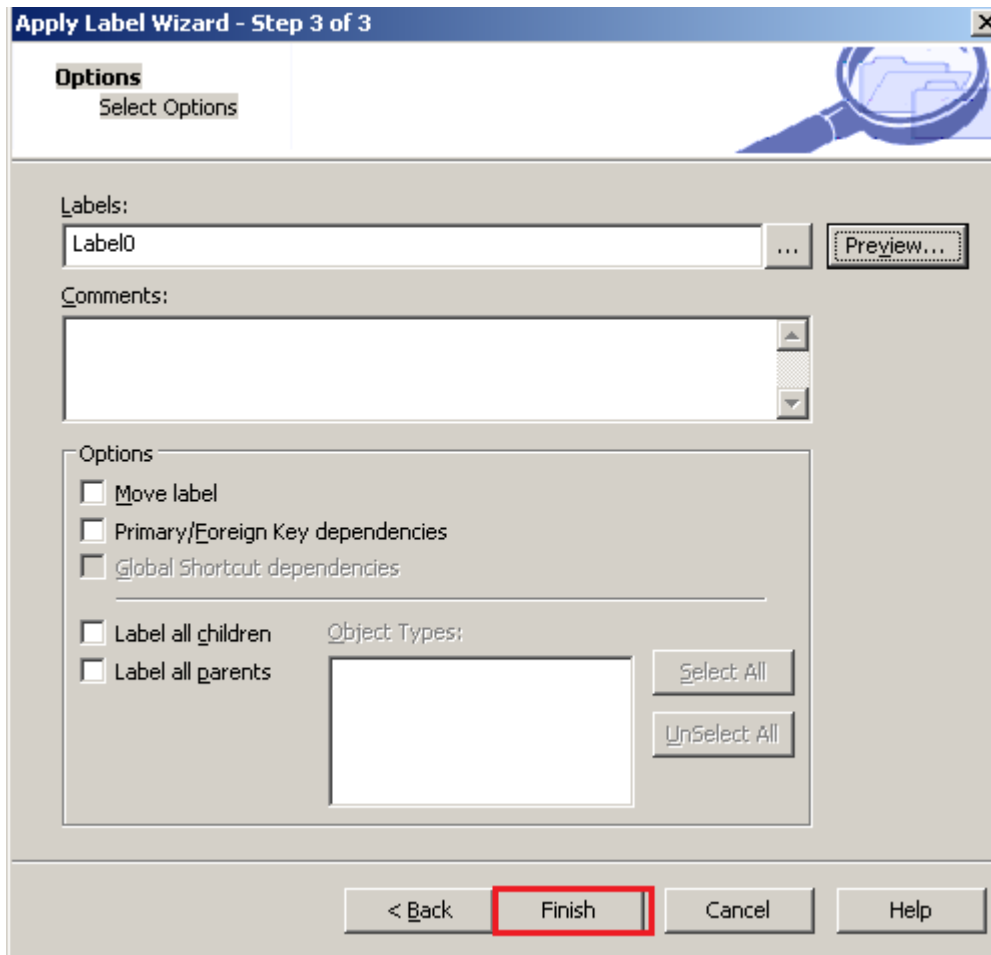
Step-14 Now click on OK button.



Step-15 Select Dependency for Deployment Group and click on OK button.



Step-16 Now click Finish button



Step-17 label and deployment group applied.

