

Data Model Merge Guide
Oracle Financial Services Analytical Applications
Version 6
Nov 2013



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Merging Data Model Changes into Existing Model

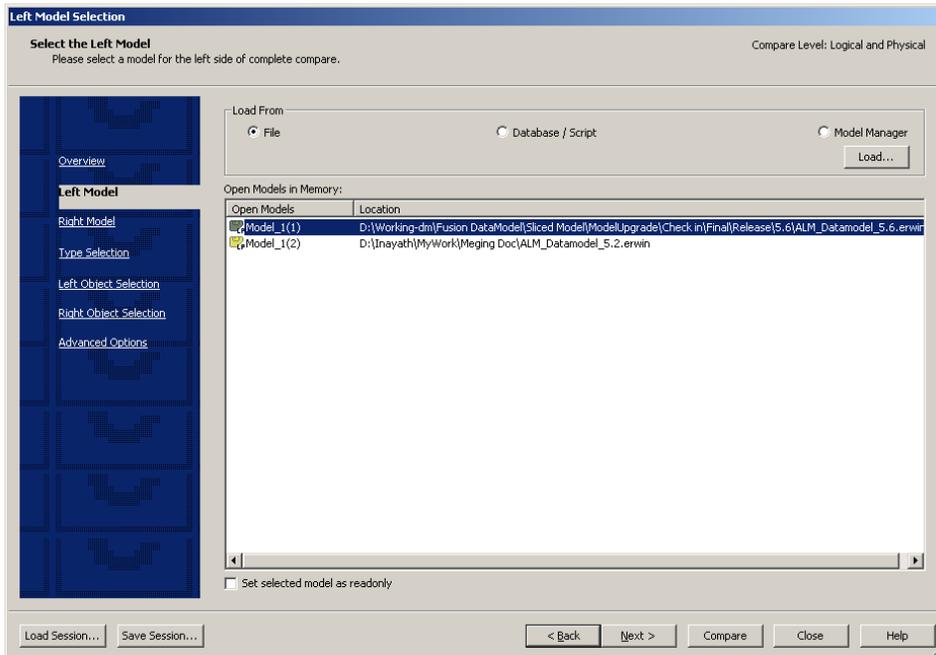
Following document will provide you the instructions for merging data model changes into existing model with the changes provided in the service pack:

1. Open previous and new data model using ERwin Data modeler.
2. Go to Tools and Click Compare.
3. Select New Data model as left model.
4. Select existing/customized Data model as Right model.
5. Click next and Select "Subject Area" under "Type Selection"
6. In Advance Options screen, uncheck "Case sensitive compare"
7. Click Next and Compare.

Types of Data Model Changes:

1. New Tables
2. Drop table
3. New Columns
4. Dropped Columns
5. Data Type Changes
6. Domain Changes
7. Merging UDP's (User Defined Properties)
8. Merging Relationships
9. Merging Descriptions
10. Merging Subject Areas

This document will explain in detail moving the above type's changes into existing model.



Advanced Options

Advanced Options Selection Compare Level: Logical and Physical

Please select from the available advanced options for complete compare.

Overview

Left Model

Right Model

Type Selection

Left Object Selection

Right Object Selection

Advanced Options

Options:

- Auto close Database/Script Models
- Case sensitive compare
- Exclude unaligned objects in the left model
- Exclude unaligned objects in the right model
- Prefix Owner
- Transform show as Target (uncheck for Source)
- Using Name Matching

Load Session...
Save Session...
< Back
Next >
Compare
Close
Help

Resolve Differences

Model_1(1) - D:\Working-dir\Fusion Data\Model\Sliced Model\ModelAppr... Model_1(2) - D:\Share\MyWork\MeagDoc\ALM_Datamodel_5.2.emv...

Model_1 Model_1

Object View	Model_1(1)	Model_1(2)
Model	Model_1	Model_1
Domains		
Subject Areas		
Subtype Symbols		
Tables		
entry/Table	ASSET_XPT_BI_COLUMNS	ASSET_XPT_BI_COLUMNS
entry/Table	CASHFLOW_CASH_FLOW_PROC_REQ	CASHFLOW_CASH_FLOW_PROC_REQ
entry/Table	CASH_FLOW_PROC_REQ	CASH_FLOW_PROC_REQ
entry/Table	COMMITMENT_CONTRACTS	COMMITMENT_CONTRACTS
entry/Table	DM_ACCOUNT	DM_ACCOUNT
entry/Table	DM_CUSTOMER_FL	DM_CUSTOMER_FL
entry/Table	FINL_CASH_FLOW_PROC_REQ	FINL_CASH_FLOW_PROC_REQ
entry/Table	PSL_BREAKAGE_TYPE_CD	PSL_BREAKAGE_TYPE_CD
entry/Table	PSL_BREAKAGE_TYPE_MLS	PSL_BREAKAGE_TYPE_MLS
entry/Table	PSL_COMMIT_OPTION_TYPE_CD	PSL_COMMIT_OPTION_TYPE_CD
entry/Table	PSL_COMMIT_OPTION_TYPE_MLS	PSL_COMMIT_OPTION_TYPE_MLS
entry/Table	PSL_CREDIT_STATUS_CD	PSL_CREDIT_STATUS_CD
entry/Table	PSL_DELETE_TABLES_SETUP	PSL_DELETE_TABLES_SETUP
entry/Table	PSL_DM_ATTRIBUTE_MAP	PSL_DM_ATTRIBUTE_MAP
entry/Table	PSL_DM_LOADER_SETUP_DETAILS	PSL_DM_LOADER_SETUP_DETAILS
entry/Table	PSL_D_ANNUITY_CONTRACTS	PSL_D_ANNUITY_CONTRACTS
entry/Table	PSL_D_BORROWING	PSL_D_BORROWING
entry/Table	PSL_D_BREAK_FUNDING_CHARGES	PSL_D_BREAK_FUNDING_CHARGES
entry/Table	PSL_D_CAPFLOORS	PSL_D_CAPFLOORS

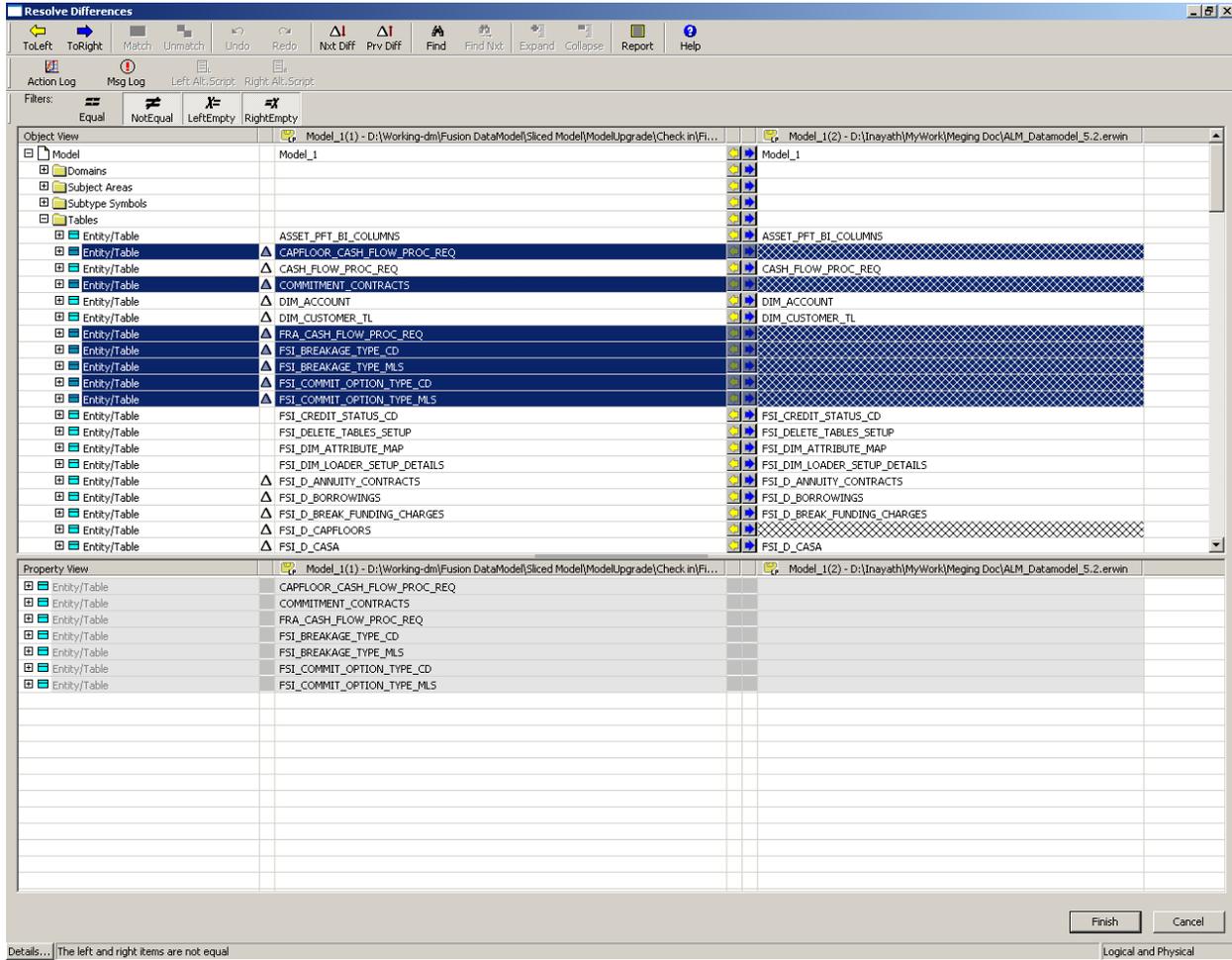
Property View

Model_1(1) - D:\Working-dir\Fusion Data\Model\Sliced Model\ModelAppr... Model_1(2) - D:\Share\MyWork\MeagDoc\ALM_Datamodel_5.2.emv...

Logical and Physical

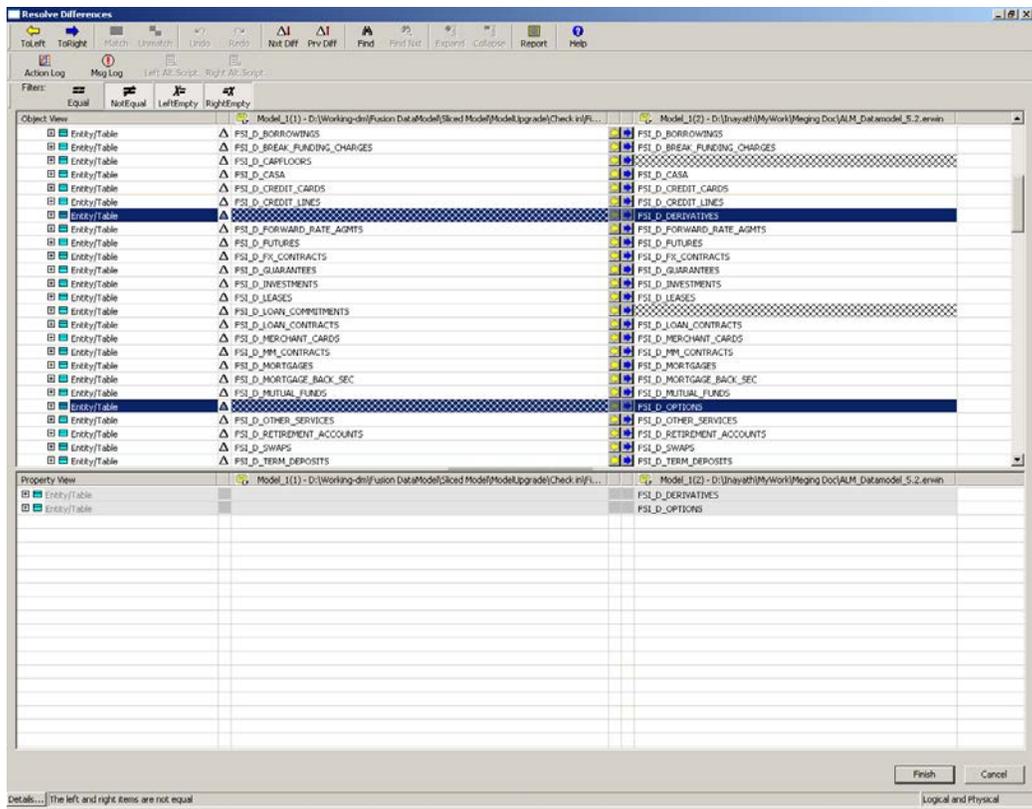
1. New Tables

Select New Tables given in the Data Model changes excel from the Left side of model and Click “ToRight” in the Resolve Differences window.



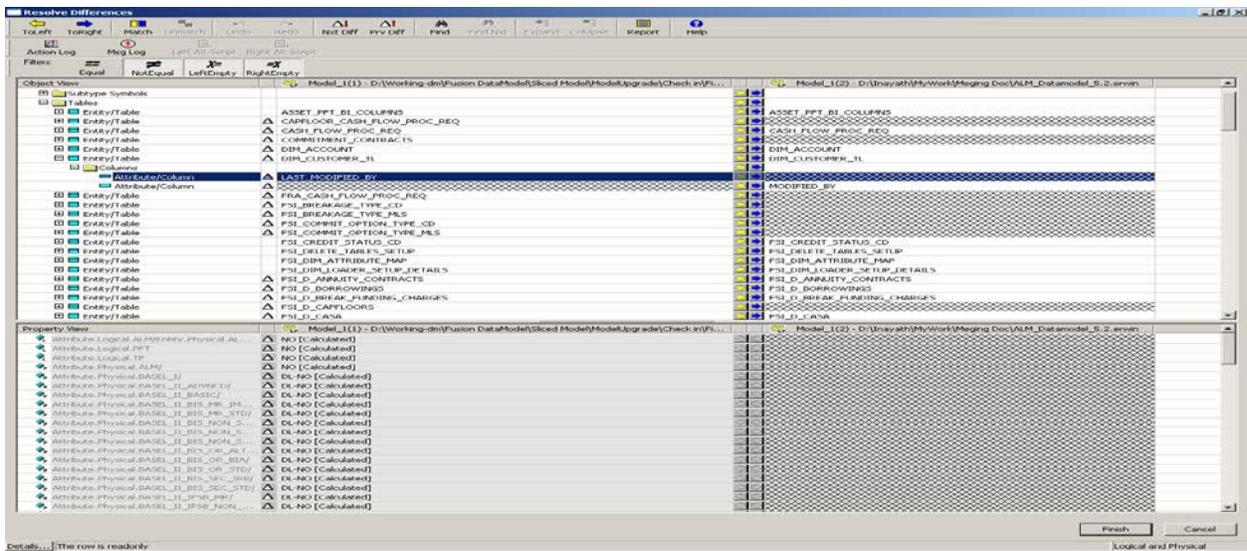
2. Drop Table

Select tables given in Drop Table list of Data model changes excel from the Right side of the model and click “ToRight” to remove the tables from the existing model.



3. New Column

Select and expand the table given in New Column List of Data Model changes excel and select the columns from the Right Side of the Data Model and click “ToRight” for moving the new column into the existing data model.



4. Drop Column

Select and expand the table given in Drop Column List of Data Model changes excel and select the columns from the Left Side of the Data Model and click “ToRight” to remove the columns from the existing data model.

The screenshot shows the 'Resolve Differences' dialog box with the following details:

- Object View:**
 - Left Model (Model_1(1)): Lists tables like ASSET_PFT_BI_COLUMNS, CAPFLOW_CASH_FLOW_PROC_REQ, CASH_FLOW_PROC_REQ, COMMITMENT_CONTRACTS, DIM_ACCOUNT, DIM_CUSTOMER_TL, and columns like LAST_MODIFIED_BY.
 - Right Model (Model_1(2)): Lists the same tables and columns, with 'LAST_MODIFIED_BY' highlighted in blue.
- Property View:**
 - Left Model: Shows properties for 'LAST_MODIFIED_BY' such as 'N [Calculated]', 'Indicates who modified this item [Calculated]', 'VARCHAR2(30)', etc.
 - Right Model: Shows the same properties for 'LAST_MODIFIED_BY' in the right model.
- Buttons:** 'ToRight' is highlighted in the top toolbar.
- Status Bar:** 'Details... | The left and right items are not equal' and 'Logical and Physical'.

5. Data Type Changes

Expand the table given in Data Type Change List of Data Model changes excel and select the columns from the Left Side of the Data Model and click “ToRight” to update the data type of the column into existing data model.

The screenshot shows the 'Resolve Differences' dialog box with the following details:

- Object View:**
 - Entity/Table: PSLD_BORROWINGS, PSLD_BREAK_FUNDING_CHARGES
 - Columns: ACCRUED_INTEREST, BREAK_FUNDING_MV, BREAK_FUNDING_MV
 - Relationships: PSLD_BREAK_FUNDING_CHARGES to LEAF_COLUMNS, PSLD_BREAK_FUNDING_CHARGES to LEAF_COLUMNS
 - Entity/Table: PSLD_CAPFLOORS, PSLD_CASA, PSLD_CREDIT_CARDS, PSLD_CREDIT_LINES, PSLD_DERIVATIVES, PSLD_FORWARD_RATE_AGMTS, PSLD_FUTURES, PSLD_FY_CONTRACTS, PSLD_GUARANTEES, PSLD_INVESTMENTS, PSLD_LEASES, PSLD_LOAN_COMMITMENTS, PSLD_LOAN_CONTRACTS, PSLD_MERCHANT_CARDS, PSLD_MM_CONTRACTS
- Property View:**
 - Datatype: NUMBER(22,3) vs NUMBER(10,6)
 - Domain Parent: BALANCE vs RATE
- Buttons:** ToLeft, ToRight (highlighted), Match, Unmatch, Undo, Redo, Not Diff, Priv Diff, Find, Find Text, Expand, Collapse, Report, Help.
- Filters:** Equal, NotEqual, LeftEmpty, RightEmpty.
- Status Bar:** Details... | The left and right items are not equal | Logical and Physical

6. Domain Changes

Expand the table given in Domain Change List of Data Model changes excel and select the columns from the Left Side of the Data Model and click “ToRight” to update the data type of the column into existing data model.

The screenshot displays the 'Resolve Differences' application window, which is used for comparing and resolving differences between two data models. The interface is divided into several sections:

- Toolbar:** Contains various navigation and action buttons such as 'ToLeft', 'ToRight', 'Match', 'Unmatch', 'Undo', 'Redo', 'Not Diff', 'Priv Diff', 'Find', 'Find Next', 'Expand', 'Collapse', 'Report', and 'Help'.
- Filters:** Includes 'Action Log', 'Msg Log', and filter options for 'Left: All Scripts', 'Right: All Scripts', 'Equal', 'NotEqual', 'LeftEmpty', and 'RightEmpty'.
- Object View:** A central pane showing a comparison of two data models. The left model is 'Model_1(1) - D:\Working-dm\Fusion Data\Model\Sliced Model\ModelUpgrade(Check in)FI...' and the right model is 'Model_1(2) - D:\Inayath\MyWork\Meging Doc\ALM_Datamodel_5.2.erwin'. The list includes various tables (e.g., FSI_D_MORTGAGE_BACK_SEC, FSI_D_MUTUAL_FUNDS) and columns (e.g., JOB_STATUS_CD). Differences are indicated by icons and shading.
- Property View:** A lower pane showing the properties of the selected domain parent. It shows a change from 'Domain Parent' to 'Number' for the 'CODE' property.
- Buttons:** 'Finish' and 'Cancel' buttons are located at the bottom right.
- Status Bar:** At the bottom, it displays 'Details... | The left and right items are not equal' and 'Logical and Physical'.

7. Merging UDP (User Defined Properties)

In the Resolve Differences screen, expand “Tables” section select table name which is present in both models and has differences.

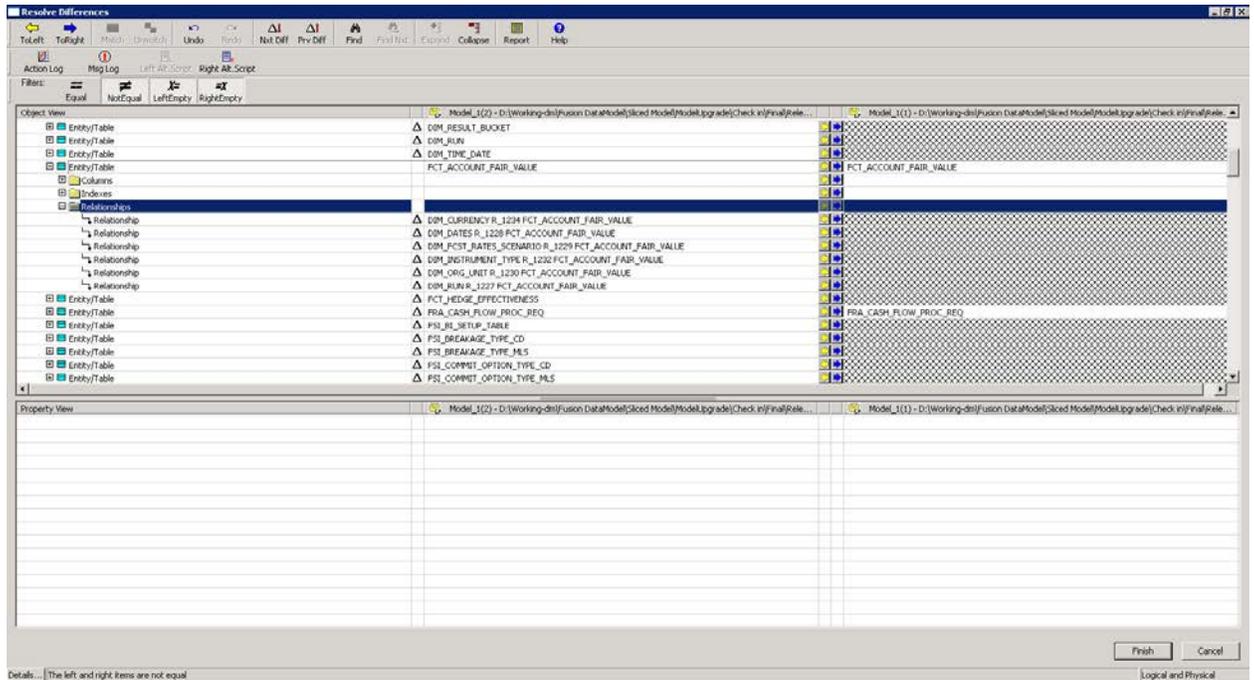
Select the UDP from the Left model and click “ToRight”

The screenshot displays the 'Resolve Differences' window with the following details:

- Object View:** A list of tables comparing Model_1(2) (left) and Model_1(1) (right). The table 'STG_PRODUCTS_B_INTF' is selected in both models.
- Property View:** Shows the 'Entity.Physical.Staging - FTP' property for the selected table. The value is 'Yes' for both Model_1(2) and Model_1(1).
- Details:** A message at the bottom states: "The left and right items are equal. Some its children are not equal."

8. Merging Relationships

In the “Resolve Differences” screen, expand “Tables” and select the table present in both the models. Select the “Relationships” differences and click “ToRight” to move the newly added relationships in to the existing model.



Note: In order to move the relationships into the existing model Parent table is required to present /moved first and order/parent tables can be identified from the relationships differences.

9. Adding Column Descriptions

In the resolve differences screen, expand the “Tables” section and select the table present in both the models. Select the column with difference and click “ToRight” to move the column level Description/Comment difference to existing model.

The screenshot shows the 'Resolve Differences' tool interface. The 'Object View' pane on the left shows a tree structure of tables and columns. The main pane displays a list of columns with difference indicators (triangles) and arrows pointing to the right, indicating that the column's description/comment is being moved to the right model. The 'Property View' pane at the bottom shows the 'Definition' property for the selected column, which is 'This column stores the settlement date for FX deal.' The status bar at the bottom indicates 'The left and right items are not equal'.

Object View	Model_1(2) - D:\Working-dir\Fusion DataModel\Sliced Model\ModelUpgrade\Check in\Final\Rel...	Model_1(1) - D:\Working-dir\Fusion DataModel\Sliced Model\ModelUpgrade\Check in\Final\Rel...
EntityTable	STG_EXCHANGE_RATE_HIST	STG_EXCHANGE_RATE_HIST
EntityTable	STG_PCAST_EI	STG_PCAST_EI
EntityTable	STG_PCAST_IBCS	STG_PCAST_IBCS
EntityTable	STG_PCAST_IBRATES	STG_PCAST_IBRATES
EntityTable	STG_FUTURES	STG_FUTURES
EntityTable	STG_FX_CONTRACTS	STG_FX_CONTRACTS
Columns		
Attribute/Column	d_book_date	d_book_date
Attribute/Column	d_closed_date	d_closed_date
Attribute/Column	d_commissions_date	d_commissions_date
Attribute/Column	d_contract_date	d_contract_date
Attribute/Column	d_eff_maturity_date	d_eff_maturity_date
Attribute/Column	d_effective_date	d_effective_date
Attribute/Column	d_last_payment_date	d_last_payment_date
Attribute/Column	d_maturity_date	d_maturity_date
Attribute/Column	d_settlement_date	d_settlement_date
Attribute/Column	d_start_date	d_start_date
Attribute/Column	f_amortization_ind	f_amortization_ind
Attribute/Column	f_app_guar_central_govt	f_app_guar_central_govt
Attribute/Column	f_app_guar_state_govt	f_app_guar_state_govt

Property View

Property	Model_1(2) - D:\Working-dir\Fusion DataModel\Sliced Model\ModelUpgrade\Check in\Final\Rel...	Model_1(1) - D:\Working-dir\Fusion DataModel\Sliced Model\ModelUpgrade\Check in\Final\Rel...
Comment	This column stores the settlement date for FX deal. [CalcDate]	[CalcDate]
Definition	This column stores the settlement date for FX deal.	

Details: The left and right items are not equal

Finish Cancel

Logical and Physical

10. Subject Area and Drawings

Expand the “Subject Areas” section in the resolve differences screen and select the new subject area present in the left model and click “ToRight” to move new subject areas into the existing model.

The screenshot displays the 'Resolve Differences' window with the following details:

- Object View:** Shows a tree structure of subject areas. The left model (Model_1(2)) has a new subject area 'Fusion - HP' that is not present in the right model (Model_1(1)).
- Property View:** Shows the properties of the selected 'Fusion - HP' subject area. The 'Name' is 'Fusion - HP' and the 'User Provided Name' is 'Fusion - HP [Calculated]'.

Property	Model_1(2) - D:\Working-dir\Fusion Data\Model\Sliced Model\Model Upgrade\Check in\Final\Rele...	Model_1(1) - D:\Working-dir\Fusion Data\Model\Sliced Model\Model Upgrade\Check in\Final\Rele...
Created Time	12/09/05 7:35	12/09/05 7:35
Filter Dangling Balls from Schema Gen...	false	false
Is Main Subject Area	false	false
Modified Time	12/09/05 7:35	12/09/05 7:35
Name	Fusion - HP	Fusion - HP
User Provided Name	Fusion - HP [Calculated]	Fusion - HP [Calculated]

Merging FSDW Data Model Staging and Reporting

Following document will provide you the instructions for merging FSDW Data Model Staging and Reporting:

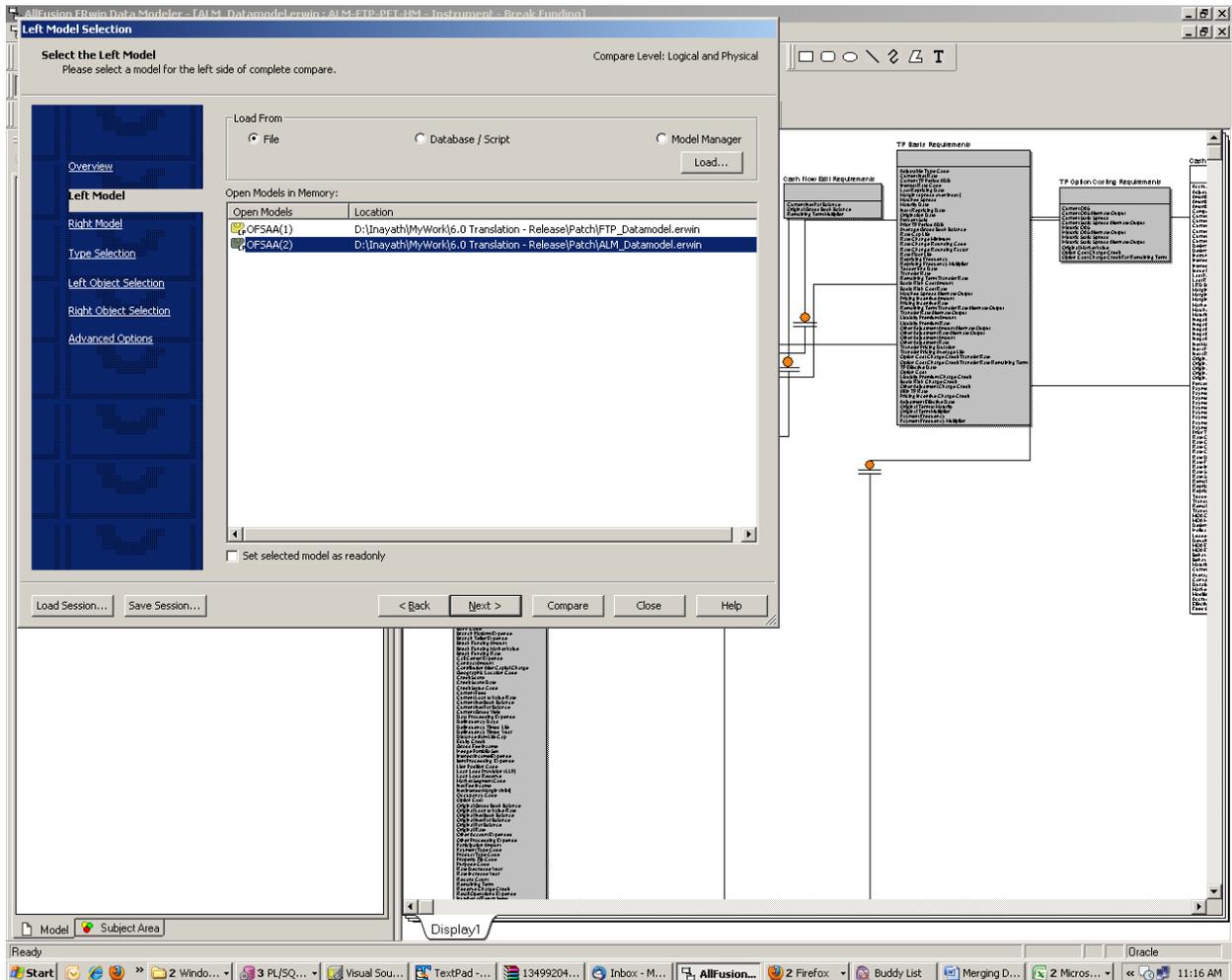
Over the merged model, perform the following steps:

1. Open the merged FSDW model in Left
2. Open the ALM model in right
3. Choose Subject Areas in the type selection.
4. Compare the models. There will be differences in staging entities. Processing entities can be moved
5. Move the differences from ALM model (right) into the left model.
6. Save the merged model.

Merging ALM Data Model Contents with FTP

Following document will provide you the instructions for merging ALM data model with FTP data model:

1. Open ALM and FTP data model using ERwin Data modeler.
2. Go to Tools and Click Compare.
3. Select ALM Data model as left model.
4. Select FTP Data model as Right model.



5. Click next and Select "Subject Area" under "Type Selection".

AllFusion ERwin Data Modeler - [ALM_Datamodelerwin - ALM-ETP-PT-HM - Instrument - Break Function]

Type Selection

Complete Compare Type Selection
Please select the types of objects to be compared in complete compare.

Compare Level: Logical and Physical

Compare Level: Logical Level Physical Level Database Level

Option Set:

Standard Default Option Set

- Disk Group
- Library
- Package
- Rollback-Segment
- Tablespace
- Owner Override
- Relationship
- Script Template
- Sequence
- Stored Procedure
- Subject Area
- Subtype Symbol
- Supertype/Subtype Identity Transform
- Supertype/Subtype Roll Down Transform
- Supertype/Subtype Roll Up Transform
- Synonym
- Table Denormalization Roll Down Transform
- Table Denormalization Roll Up Transform
- Tablespace Group
- Trigger Template
- Validation Rule
- Vertical Partition Transform
- View

Model: Subject Area

Display1

The diagram illustrates the relationships between three requirement types: 'Cash Flow Bill Requirement', 'TP Basic Requirement', and 'TP Option-Costing Requirement'. 'Cash Flow Bill Requirement' is connected to 'TP Basic Requirement' via a relationship line. 'TP Basic Requirement' is further connected to 'TP Option-Costing Requirement' via another relationship line. The diagram also shows a list of object types on the right side, including 'Table', 'View', 'Sequence', etc.

Ready

Start | 2 Windo... | 3 PL/SQ... | Visual Sou... | TextPad ... | 13499204... | Inbox - M... | AllFusion... | 2 Firefox | Buddy List | Merging D... | 2 Micros... | Oracle | 11:18 AM

6. In Advance Options screen uncheck "Case sensitive compare"

The screenshot shows the 'Advanced Options Selection' dialog box in the AllFusion ERwin Data Modeler application. The dialog is titled 'Advanced Options Selection' and has a subtitle 'Please select from the available advanced options for complete compare.' The 'Compare Level' is set to 'Logical and Physical'. The 'Options' section contains the following checkboxes:

- Auto close Database/Script Models
- Case sensitive compare
- Exclude unaligned objects in the left model
- Exclude unaligned objects in the right model
- Prefix Owner
- Transform show as Target (unchecked for Source)
- Using Name Matching

The dialog also features a navigation pane on the left with the following items: Overview, Left Model, Right Model, Type Selection, Left Object Selection, Right Object Selection, and Advanced Options (which is currently selected). At the bottom of the dialog are buttons for 'Load Session...', 'Save Session...', '< Back', 'Next >', 'Compare', 'Close', and 'Help'.

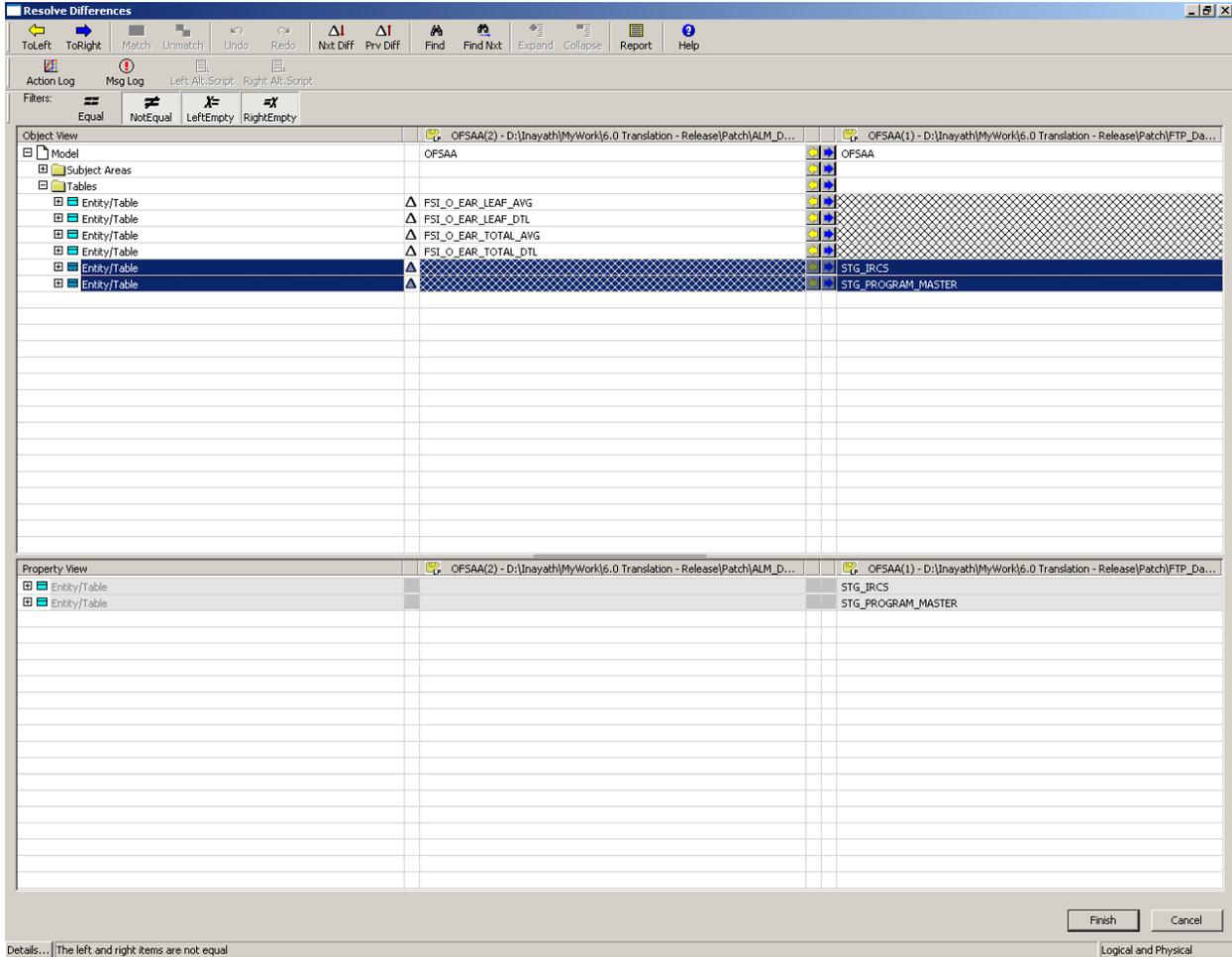
The background of the screenshot shows a complex ER diagram with various requirements and relationships. The diagram includes boxes for 'Cash Flow Bill Requirements', 'TP Basis Requirements', and 'TP Option-Costing Requirements'. The diagram is connected to a 'Model' and 'Subject Area' at the bottom. The status bar at the bottom of the application window shows 'Ready' and 'Oracle'.

7. Click Next and Compare.

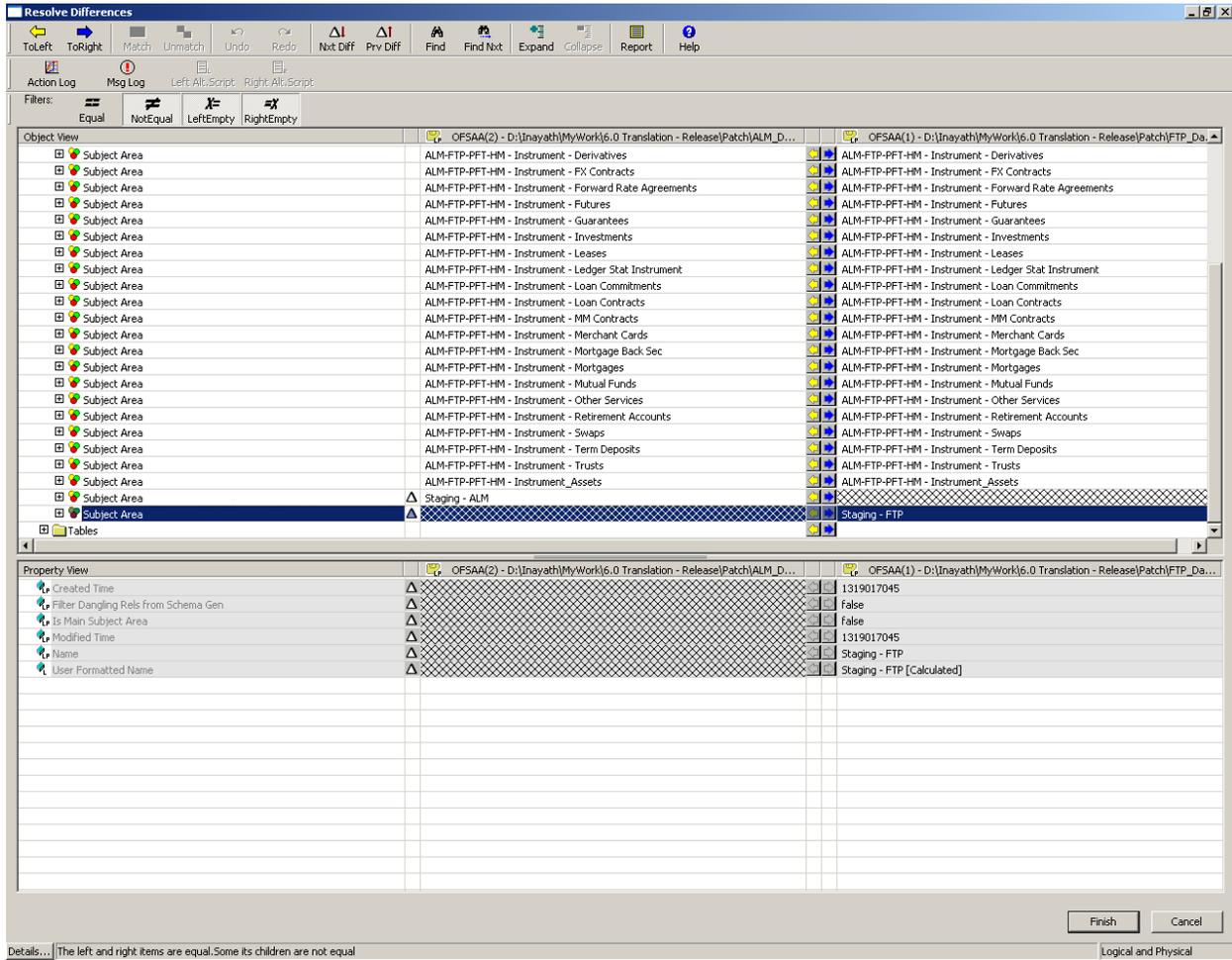
In the “Resolve Differences” window, expand “Tables” and Move the below tables to “Left side” (ALM Data model).

a. STG_IRCS

b. STG_PROGRAM_MASTER



Expand “Subject Areas” and move “Staging – FTP” subject area to “Left side” (ALM Data model).



8. Click Finish

9. Click Close to Close Model Compare window

10. Save ALM_Datamodel as the merged ALM_FTP_Merged_Datamodel.

Note: Going forward merging ALM_FTP_Merged_Datamodel with PFT_FTP_Merged_Datamodel, ALM_FTP_Merged_Datamodel should be considered as base.

Merging FTP Data Model Contents with PFT

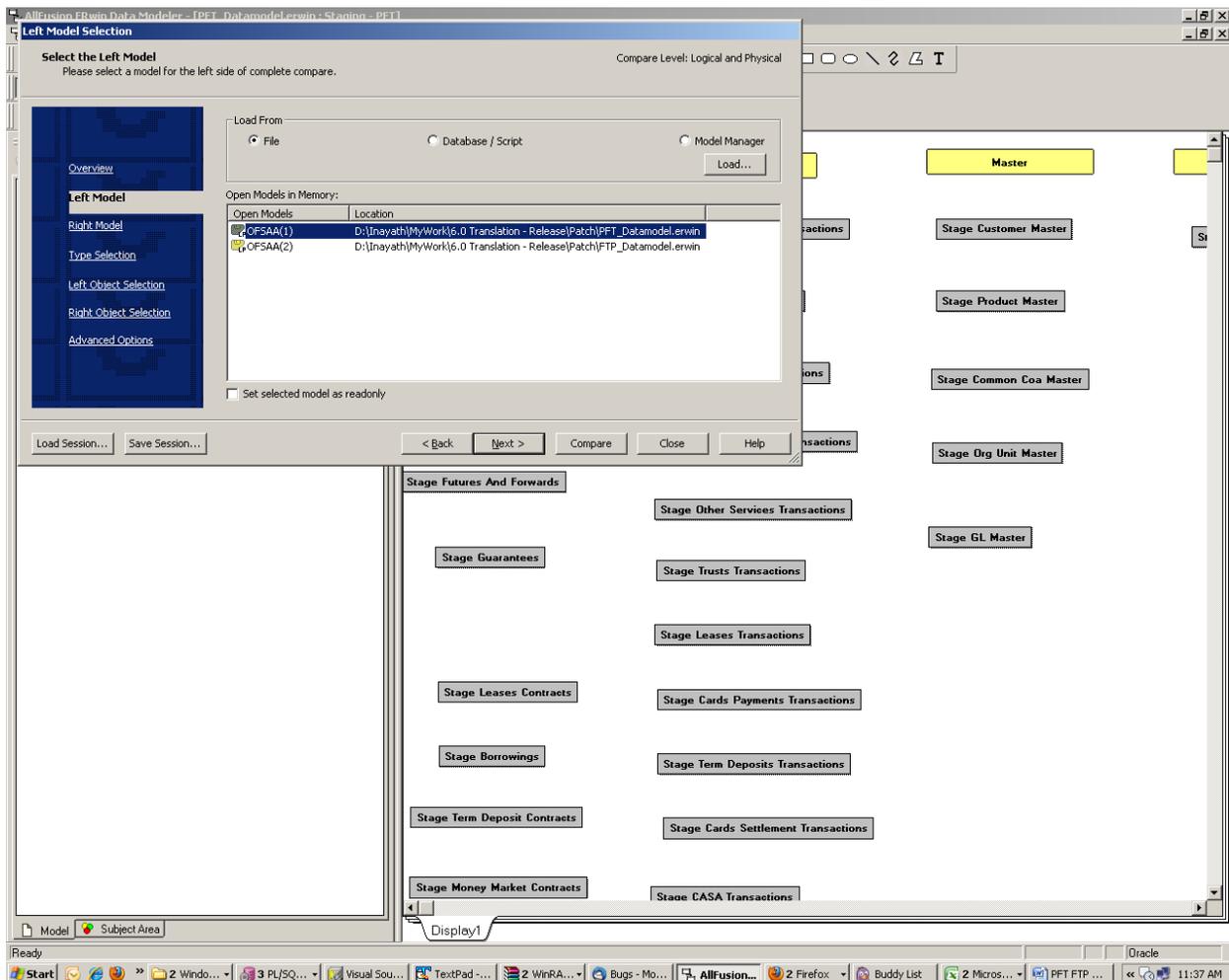
The objective is to generate the merged model of PFT and FTP.

We will compare both the models and include subject areas that are present in FTP and not present in PFT. As a result of this exercise, PFT model will contain all the FTP related entities as well.

As of Release, the differences between the two models are only in additional subject areas. There are no common tables/attributes that have differences between the two models.

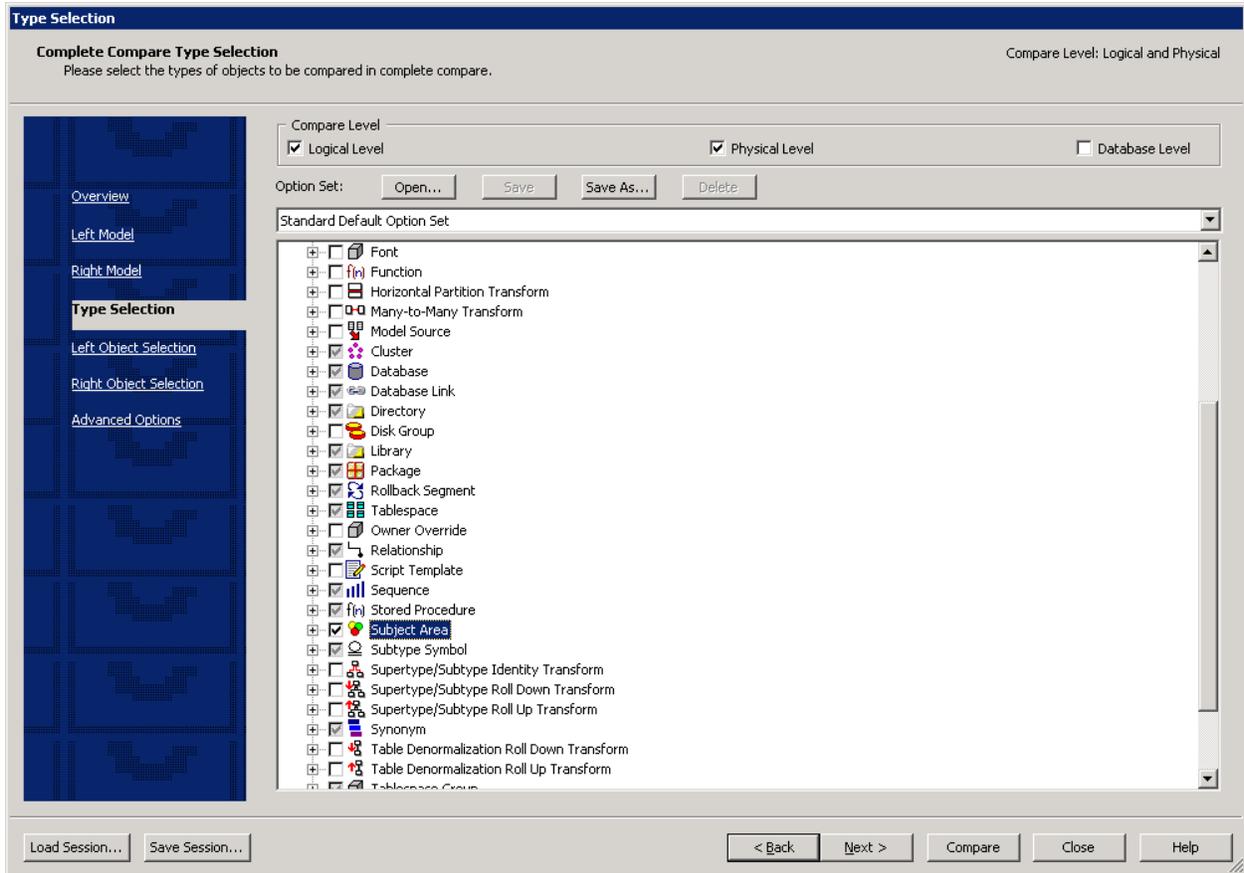
Steps are as follows:

1. Select PFT_Datamodel.erwin as Left Model.
2. Select FTP_Datamodel.erwin as Right Model.



3. Select Subject Area from the list.

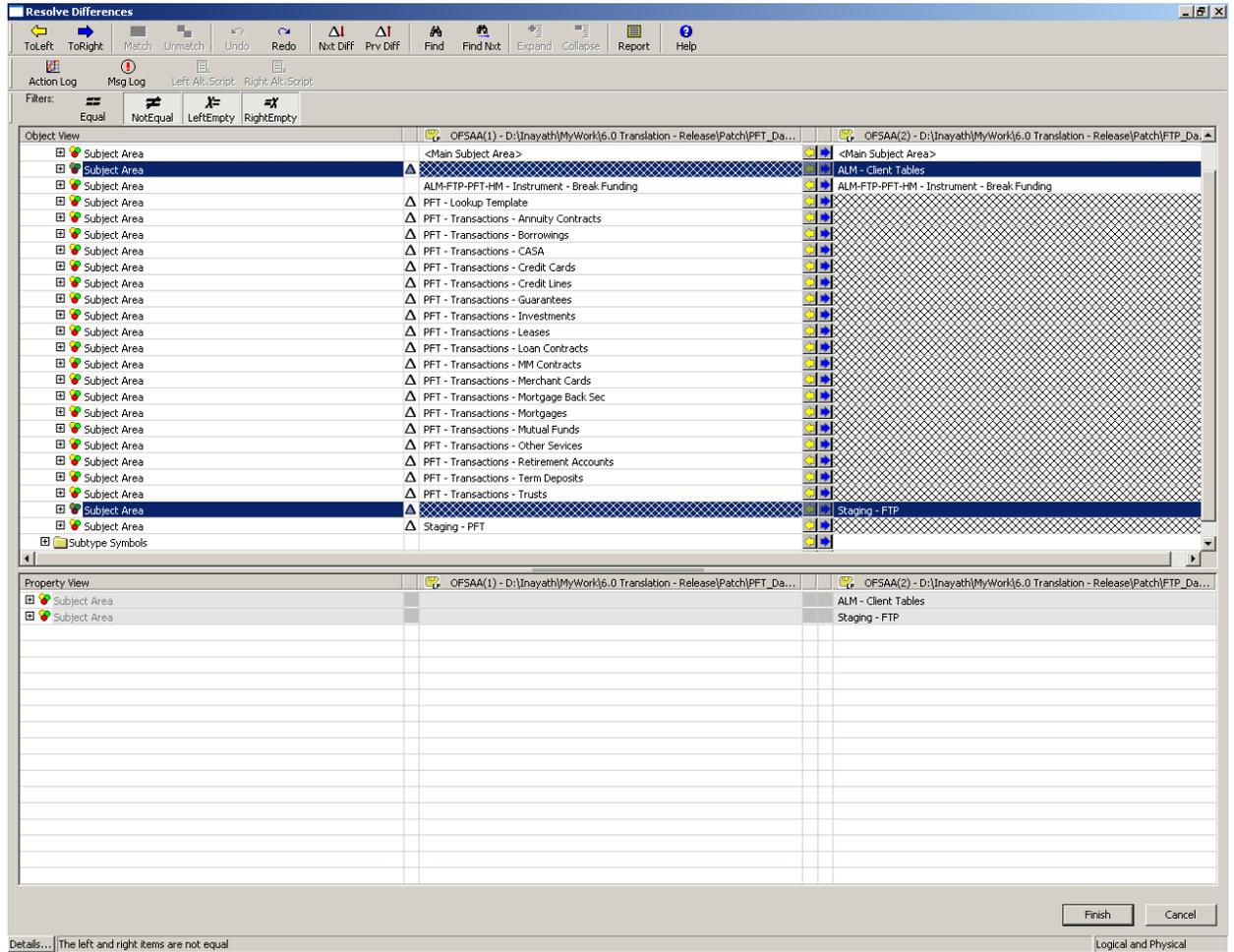
4. Click Next.
5. Click Compare.



6. In the 'Resolve Differences' window expand Subject Area and move the below subject areas to Left Model (PFT Data model).

a. Staging – FTP

b. ALM – Client Tables



7. Click Finish.

8. Click Close to Close Model Compare window.

9. Save PFT_Datamodel as the merged PFT_FTP_Merged_Datamodel.