

Data Model Merge Guide  
Oracle Financial Services Analytical Applications  
Version 8.0  
March 2015



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## Merging Data Model Changes into Existing Model

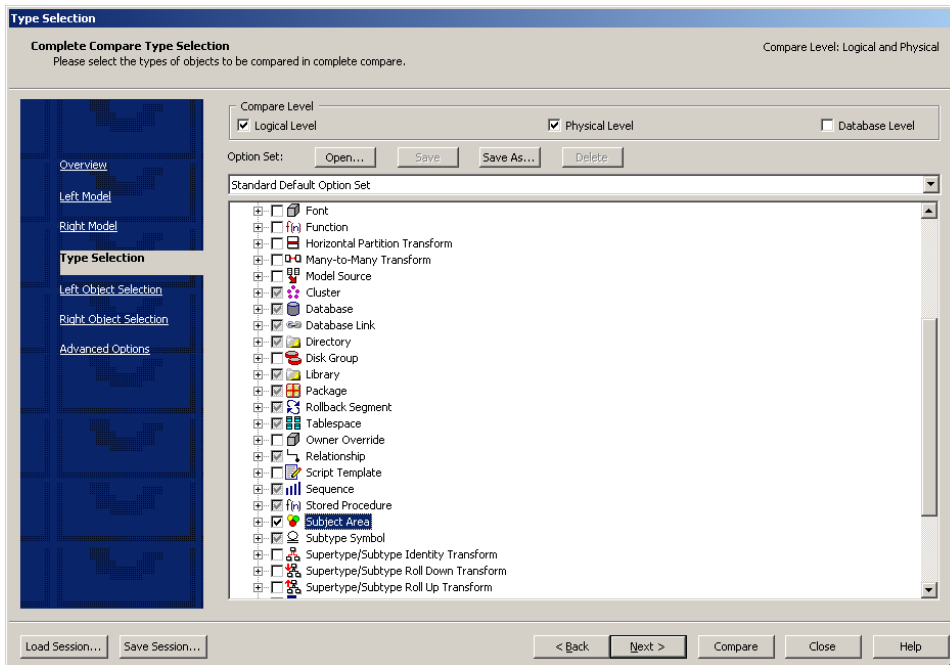
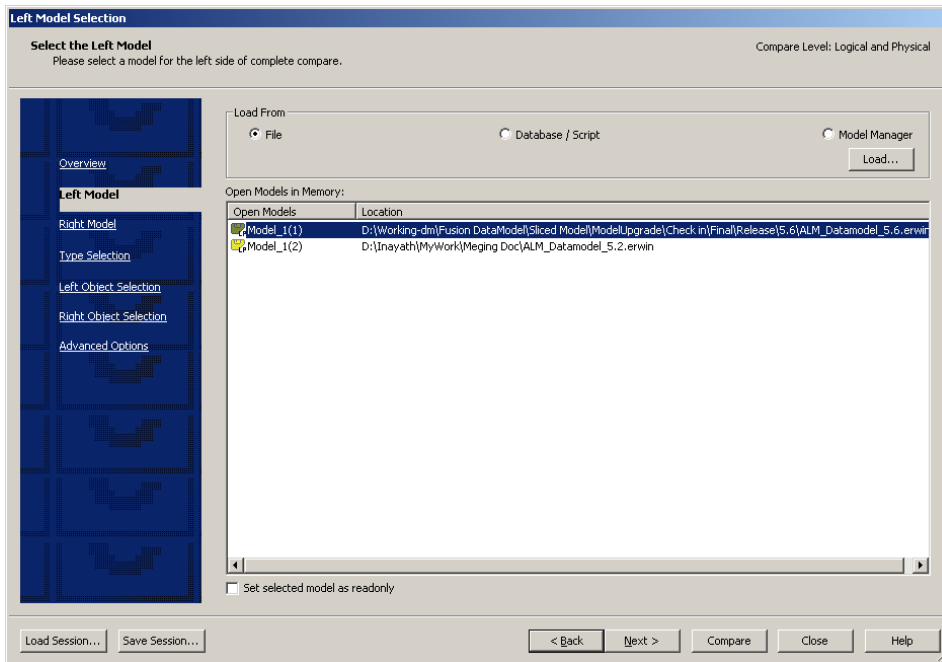
The following document provides you the instructions for merging data model changes into existing model with the changes provided in the service pack:

1. Open previous and new data model using ERwin Data modeler.
2. Navigate 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** window, uncheck **Case sensitive compare**.
7. Click **Next** and **Compare**.

Following are the 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\_1(Sliced Model)\Model\_1.ppr... | Model\_1(2) - D:\Inayath\MyWork\Testing Doc\ALM\_Datamodel\_5.2.ervw...

Files: Equal, NotEqual, LeftEmpty, RightEmpty

Object View	Model_1	Model_2
Model	Model_1	Model_2
Domains		
Subject Areas		
Subtype Symbols		
Tables		
entry/Table	ASSET_PFT_BI_COLLING	ASSET_PFT_BI_COLLING
entry/Table	CAPFLDOR_CASH_FLOW_PROC_REQ	CAPFLDOR_CASH_FLOW_PROC_REQ
entry/Table	CASH_FLOW_PROC_REQ	CASH_FLOW_PROC_REQ
entry/Table	COMMITMENT_CONTRACTS	COMMITMENT_CONTRACTS
entry/Table	DIM_ACCOUNT	DIM_ACCOUNT
entry/Table	DIM_CUSTOMER_TL	DIM_CUSTOMER_TL
entry/Table	FRA_CASH_FLOW_PROC_REQ	FRA_CASH_FLOW_PROC_REQ
entry/Table	FSL_BREAKAGE_TYPE_CD	FSL_BREAKAGE_TYPE_CD
entry/Table	FSL_BREAKAGE_TYPE_MLS	FSL_BREAKAGE_TYPE_MLS
entry/Table	FSL_COMMIT_OPTION_TYPE_CD	FSL_COMMIT_OPTION_TYPE_CD
entry/Table	FSL_COMMIT_OPTION_TYPE_MLS	FSL_COMMIT_OPTION_TYPE_MLS
entry/Table	FSL_CREDIT_STATUS_CD	FSL_CREDIT_STATUS_CD
entry/Table	FSL_DELETE_TABLES_SETUP	FSL_DELETE_TABLES_SETUP
entry/Table	FSL_DIM_ATTRIBUTE_MAP	FSL_DIM_ATTRIBUTE_MAP
entry/Table	FSL_DIM_LOADER_SETUP_DETAILS	FSL_DIM_LOADER_SETUP_DETAILS
entry/Table	FSL_D_ANNUITY_CONTRACTS	FSL_D_ANNUITY_CONTRACTS
entry/Table	FSL_D_BORROWINGS	FSL_D_BORROWINGS
entry/Table	FSL_D_BREAK_FUNDINGS_CHARGES	FSL_D_BREAK_FUNDINGS_CHARGES
entry/Table	FSL_D_CAPFLOORS	FSL_D_CAPFLOORS

Property View

Model\_1(1) - D:\Working-dir\Fusion Data\Model\_1(Sliced Model)\Model\_1.ppr... | Model\_1(2) - D:\Inayath\MyWork\Testing Doc\ALM\_Datamodel\_5.2.ervw...

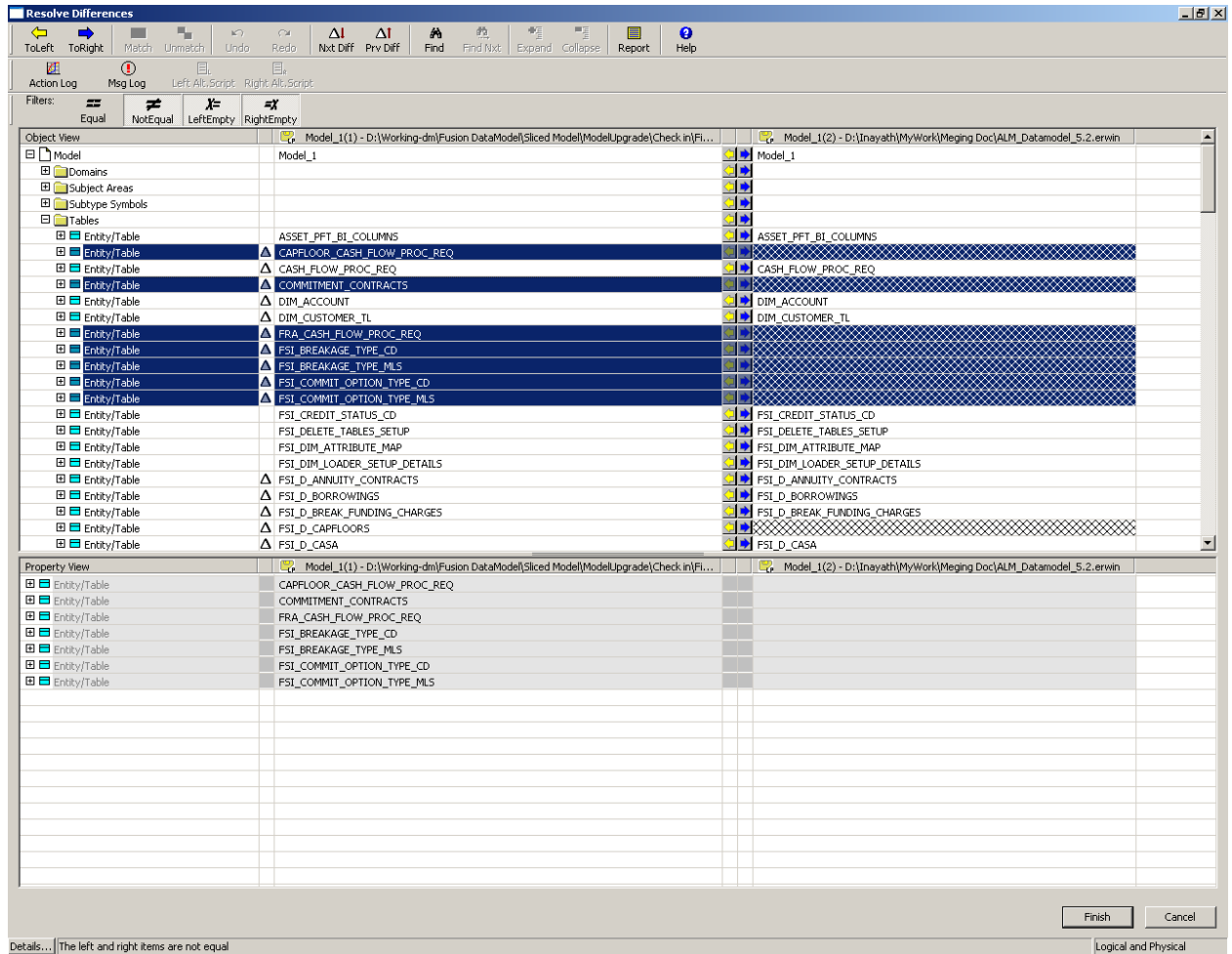
Details: The left and right items are equal. Some of its children are not equal.

Logical and Physical

## 1. New Tables

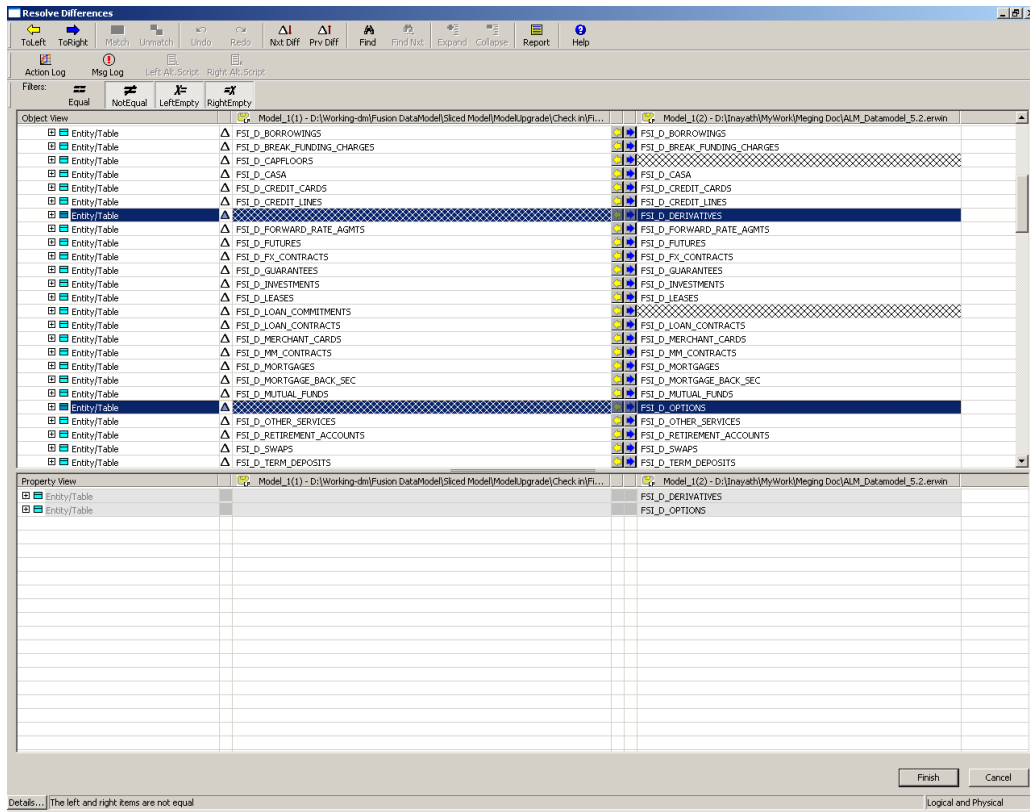
Select New Tables given in the Data Model changes excel from the Left side of model and Click **ToRight** in the **Resolve Differences** window.

**Note:** In order to move the New Tables or Existing Tables having FKs to the Target Model, refer to [Merging Relationships](#).



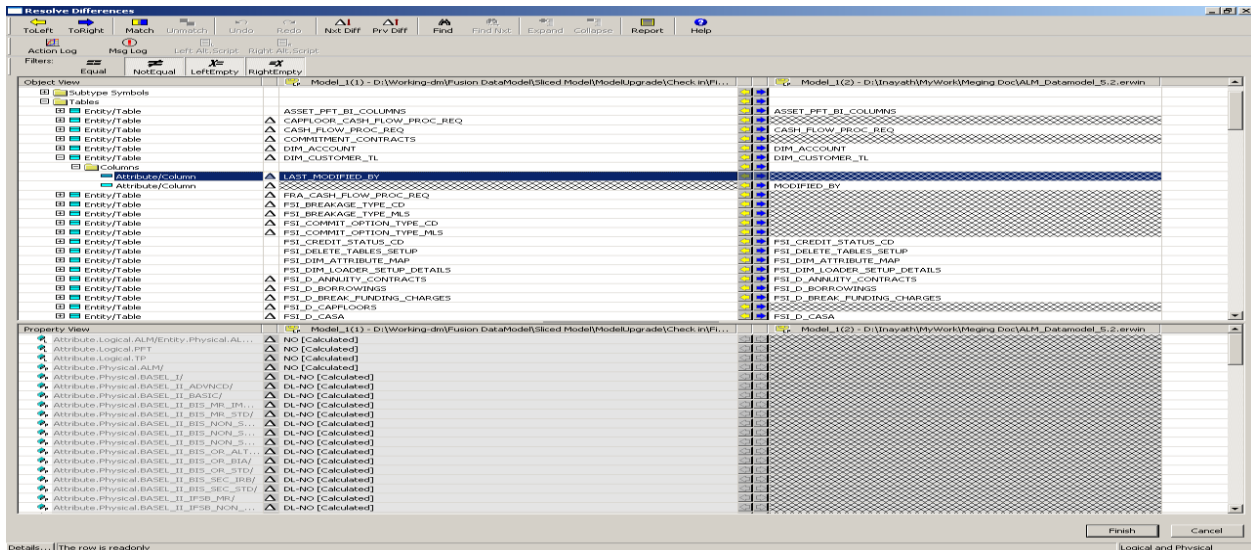
## 2. Drop Table

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:**
  - Subtype Symbols
  - Tables
    - ASSET\_PFT\_BI\_COLUMNS
    - CAPFLOOR\_CASH\_FLOW\_PROC\_REQ
    - CASH\_FLOW\_PROC\_REQ
    - COMMITMENT\_CONTRACTS
    - DIM\_ACCOUNT
    - DIM\_CUSTOMER\_TL
  - Columns
    - Attribute/Column: LAST\_MODIFIED\_BY
    - Attribute/Column: MODIFIED\_BY
    - FRA\_CASH\_FLOW\_PROC\_REQ
    - FSI\_BREAKAGE\_TYPE\_CD
    - FSI\_BREAKAGE\_TYPE\_MLS
    - FSI\_COMMIT\_OPTION\_TYPE\_CD
    - FSI\_COMMIT\_OPTION\_TYPE\_MLS
    - FSI\_CREDIT\_STATUS\_CD
    - FSI\_DELETE\_TABLES\_SETUP
    - FSI\_DIM\_ATTRIBUTE\_MAP
    - FSI\_DIM\_LOADER\_SETUP\_DETAILS
    - FSI\_D\_ANNULITY\_CONTRACTS
    - FSI\_D\_BORROWINGS
    - FSI\_D\_BREAK\_FUNDING\_CHARGES
    - FSI\_D\_CAPFLOORS
    - FSI\_D\_CASA
- Property View:**
  - Attribute.Physical.Credit.Cards.Attribute...: N [Calculated]
  - Comment: Indicates who modified this item [Calculated]
  - Datatype: VARCHAR2(30)
  - Definibon: Indicates who modified this item
  - Domain Parent: String
  - Name: Modified By
  - Null Option: Not Null
  - Oracle Sort Column: false [Calculated]
  - Physical Name: MODIFIED\_BY
  - Update Attribute Definition to Match: false [Calculated]

At the bottom of the dialog, the status bar indicates: "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	Model_1(1) - D:\Working-dm\Fusion DataModel\Sliced Model\ModelUpgrade(Check in)FI...	Model_1(2) - D:\Inayath\MyWork\Meeging Doc\ALM_Datamodel_5.2.erwin
Entity/Table	Δ FSL_D_BORROWINGS	FSL_D_BORROWINGS
Entity/Table	Δ FSL_D_BREAK_FUNDING_CHARGES	FSL_D_BREAK_FUNDING_CHARGES
Columns		
Attribute/Column	Δ ACCRUED_INTEREST	ACCRUED_INTEREST
Attribute/Column	Δ BREAKAGE_AMOUNT	BREAKAGE_AMOUNT
Attribute/Column	Δ BREAKAGE_TYPE_CD	BREAKAGE_TYPE_CD
Attribute/Column	Δ BREAK_FUNDING_MV	BREAK_FUNDING_MV
Relationships		
Relationship	Δ FSL_D_BREAK_FUNDING_CHARGES Is a LEAF_COLUMNS	FSL_D_BREAK_FUNDING_CHARGES Is a LEAF_COLUMNS
Entity/Table	Δ FSL_D_CAPFLOORS	FSL_D_CAPFLOORS
Entity/Table	Δ FSL_D_CASA	FSL_D_CASA
Entity/Table	Δ FSL_D_CREDIT_CARDS	FSL_D_CREDIT_CARDS
Entity/Table	Δ FSL_D_CREDIT_LINES	FSL_D_CREDIT_LINES
Entity/Table	Δ FSL_D_DERIVATIVES	FSL_D_DERIVATIVES
Entity/Table	Δ FSL_D_FORWARD_RATE_AGMTS	FSL_D_FORWARD_RATE_AGMTS
Entity/Table	Δ FSL_D_FUTURES	FSL_D_FUTURES
Entity/Table	Δ FSL_D_FX_CONTRACTS	FSL_D_FX_CONTRACTS
Entity/Table	Δ FSL_D_GUARANTEES	FSL_D_GUARANTEES
Entity/Table	Δ FSL_D_INVESTMENTS	FSL_D_INVESTMENTS
Entity/Table	Δ FSL_D_LEASES	FSL_D_LEASES
Entity/Table	Δ FSL_D_LOAN_COMMITMENTS	FSL_D_LOAN_COMMITMENTS
Entity/Table	Δ FSL_D_LOAN_CONTRACTS	FSL_D_LOAN_CONTRACTS
Entity/Table	Δ FSL_D_MERCHANT_CARDS	FSL_D_MERCHANT_CARDS
Entity/Table	Δ FSL_D_MM_CONTRACTS	FSL_D_MM_CONTRACTS
Property View		
Datatype	Δ NUMBER(22,3)	NUMBER(10,6)
Domain Parent	Δ BALANCE	RATE

Details: The left and right items are not equal

## 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' dialog box, which is used to compare and resolve differences between two data models. The dialog is split into two panes: 'Object View' and 'Property View'.

**Object View:** This pane shows a comparison of two models. The left model is 'Model\_1(1) - D:\Working-dm\Fusion DataModel\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 comparison shows a list of tables and columns. The 'JOB\_STATUS\_CD' column is highlighted in blue, indicating it is the current selection. The 'ToRight' button is visible in the top left corner of the dialog.

**Property View:** This pane shows the properties of the selected 'JOB\_STATUS\_CD' column. It displays a domain change from 'Domain Parent' to 'Number'.

**Details:** The bottom status bar indicates 'The left and right items are not equal'.

## 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 shows the 'Resolve Differences' dialog box. The 'Object View' section displays a comparison of tables between two models. The tables are listed in three columns: the left model, the right model, and a central comparison column. The comparison column uses icons to indicate differences: a triangle for differences in structure or data, and a cross-hatch pattern for differences in user-defined properties (UDP). The 'Property View' section shows the details of the selected UDPs. Two properties are highlighted in blue, indicating they are the selected items for resolution.

Object View	Model_1(2) - D:\Working-dm\Fusion DataModel\Sliced Model\ModelUpgrade(Check in)\Final\Rele...	Model_1(1) - D:\Working-dm\Fusion DataModel\Sliced Model\ModelUpgrade(Check in)\Final\Rele...
EnbyblyTable	STG_PRODUCTS_B_INTF	STG_PRODUCTS_B_INTF
EnbyblyTable	STG_PRODUCTS_HIER_INTF	STG_PRODUCTS_HIER_INTF
EnbyblyTable	STG_PRODUCTS_TL_INTF	STG_PRODUCTS_TL_INTF
EnbyblyTable	STG_PRODUCT_MASTER	STG_PRODUCT_MASTER
EnbyblyTable	STG_REPO_CONTRACTS	STG_REPO_CONTRACTS
EnbyblyTable	STG_RETIREMENT_ACCOUNTS	STG_RETIREMENT_ACCOUNTS
EnbyblyTable	STG_SEC_EXPOSURES	STG_SEC_EXPOSURES
EnbyblyTable	STG_SWAPS_CONTRACTS	STG_SWAPS_CONTRACTS
EnbyblyTable	STG_TD_CONTRACTS	STG_TD_CONTRACTS
EnbyblyTable	STG_TERMDEPOSITS_TWS	STG_TERMDEPOSITS_TWS
EnbyblyTable	STG_TERMDEPOSITS_TWS_SUMMARY	STG_TERMDEPOSITS_TWS_SUMMARY
EnbyblyTable	STG_TRUSTS	STG_TRUSTS
EnbyblyTable	STG_TRUSTS_TWS	STG_TRUSTS_TWS
EnbyblyTable	STG_TRUSTS_TWS_SUMMARY	STG_TRUSTS_TWS_SUMMARY
EnbyblyTable	SWAPS_CASH_FLOW_PROC_REQ	SWAPS_CASH_FLOW_PROC_REQ
EnbyblyTable	Setup_Master	Setup_Master
EnbyblyTable	TP_BASIC_REQ	TP_BASIC_REQ
EnbyblyTable	TP_BREAK_DETECT_REQ	TP_BREAK_DETECT_REQ
EnbyblyTable	TRANS_LEAF_COLUMNS	TRANS_LEAF_COLUMNS

Property View	Model_1(2) - D:\Working-dm\Fusion DataModel\Sliced Model\ModelUpgrade(Check in)\Final\Rele...	Model_1(1) - D:\Working-dm\Fusion DataModel\Sliced Model\ModelUpgrade(Check in)\Final\Rele...
Attribute Order	Contract Reference Code,Extraction Date,Product Code,Tenor,Total Fees and Charges,Total Reven...	Contract Reference Code,Extraction Date,Product Code,Tenor,Total Fees and Charges,Total Reven...
Column Order	v_contract_code, fic_mis_date, v_prod_code, n_tenor, n_tot_fee_chgs, n_tot_revenue, v_account_ma...	v_contract_code, fic_mis_date, v_prod_code, n_tenor, n_tot_fee_chgs, n_tot_revenue, v_account_ma...
Database Column Order	v_contract_code, fic_mis_date, v_prod_code, n_tenor, n_tot_fee_chgs, n_tot_revenue, v_account_ma...	v_contract_code, fic_mis_date, v_prod_code, n_tenor, n_tot_fee_chgs, n_tot_revenue, v_account_ma...
Enbybly Physical Steping - FTP	YES	NO [Calculated]
Enbybly Physical Steping - HW	YES	NO [Calculated]

Details... The left and right items are equal. Some its children are not equal

Finish Cancel

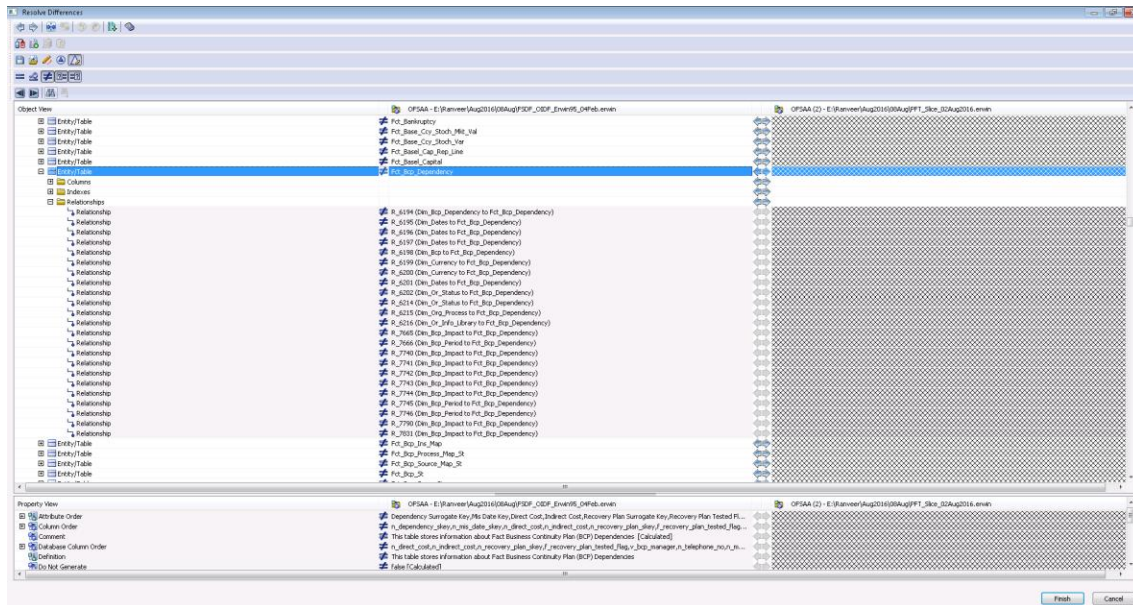
Logical and Physical


## 8. Merging Relationships

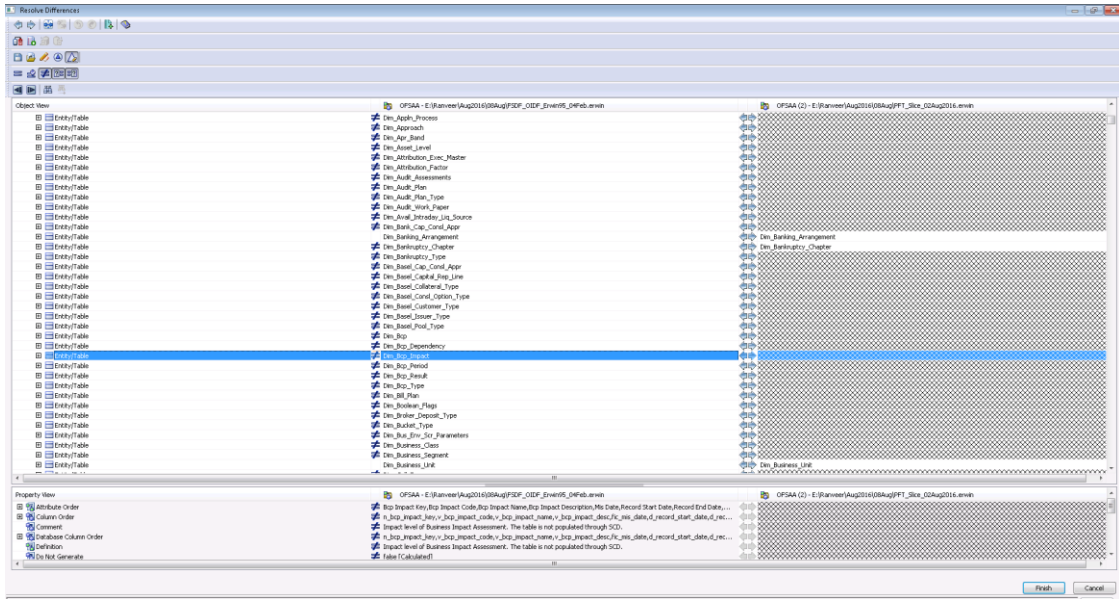
**Note:** In order to move the relationships into the existing model, Parent table is required to be present /moved first and order/parent tables can be identified from the relationships differences.


### For New Tables having Relationships /Existing Tables having new Relationships

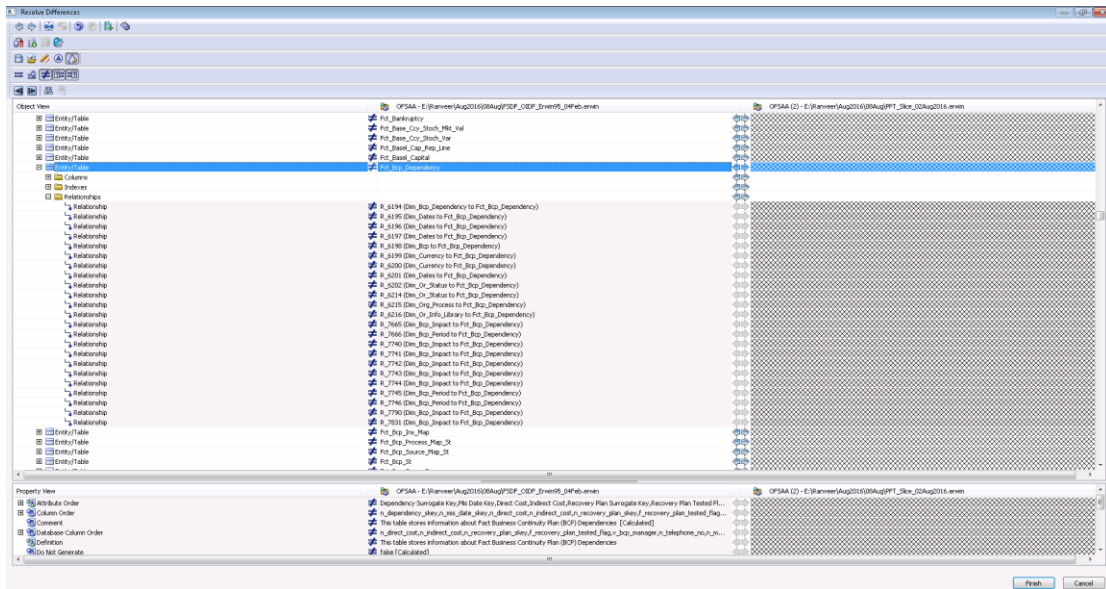
1. Identify the Parent tables, the DIM Tables having relationship with the current table (Fct\_Bcp\_Dependency), by expanding the relationship differences as shown in the following figure.



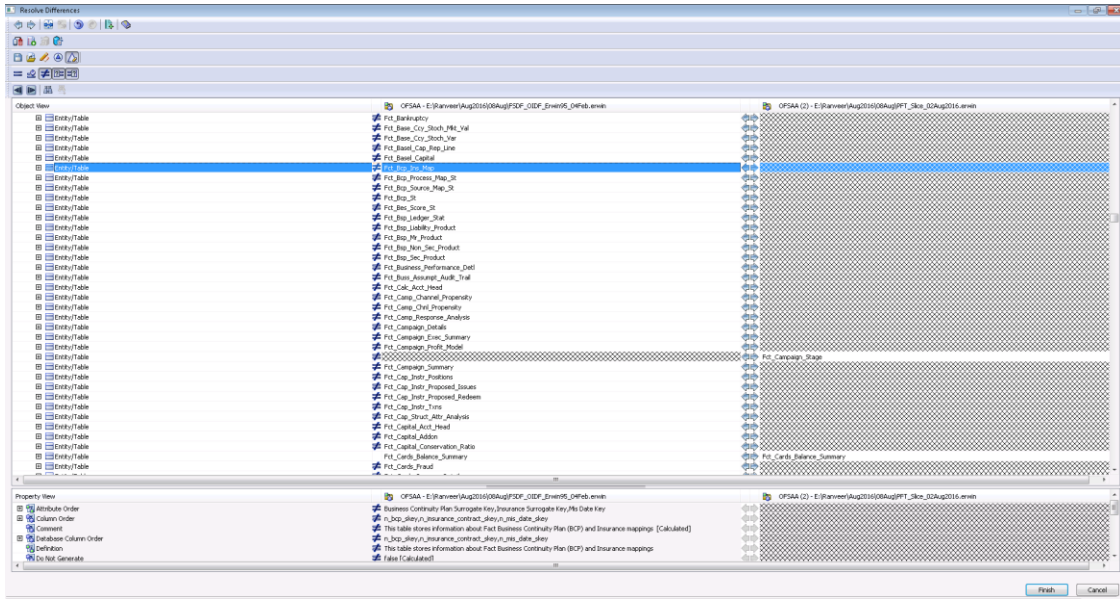
2. Move the identified Parent tables (Dim\_Bcp\_Impact, Dim\_Bcp\_Dependency and so on) to the Target model by clicking  **ToRight** symbol.



3. After moving the Parent tables, navigate to the Child/Current table (Fct\_Bcp\_Dependency) and move it entirely to the Target model by clicking  **ToRight** symbol as shown in the following figure.

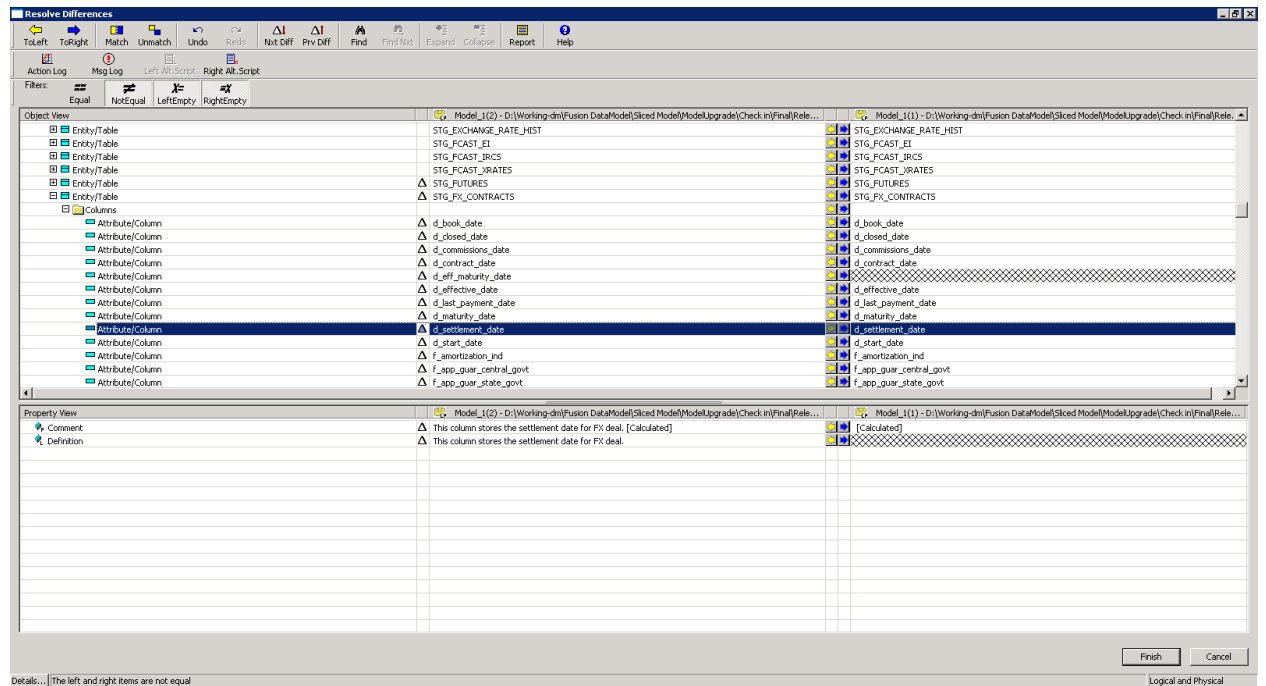


4. On performing the previous step, user can observe that the Parent table differences are resolved and the table disappears from the Resolve Differences Display.



## 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.



Details: The left and right items are not equal

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.

**Resolve Differences**

Model\_1(2) - D:\Working-dm\Fusion Data\Model\Sliced Model\ModelUpgrade(Check in\Final\Rel... | Model\_1(1) - D:\Working-dm\Fusion Data\Model\Sliced Model\ModelUpgrade(Check in\Final\Rel...

**Object View**

Model_1(2)	Model_1(1)
Model	Model_1
Domains	
Subject Areas	
Subject Area	<Main Subject Area>
Subject Area	Fusion - ALM Client Tables
Subject Area	Fusion - AdminBI
Subject Area	Fusion - Code Tables
Subject Area	Fusion - HM Fact Hedge Effectiveness
Subject Area	Fusion - Instrument - Annuity Contracts
Subject Area	Fusion - Instrument - Borrowings
Subject Area	Fusion - Instrument - Break Funding
Subject Area	Fusion - Instrument - CASH
Subject Area	Fusion - Instrument - Capfloors
Subject Area	Fusion - Instrument - Credit Cards
Subject Area	Fusion - Instrument - Credit Lines
Subject Area	Fusion - Instrument - FX Contracts
Subject Area	Fusion - Instrument - Forward Rate Agreements
Subject Area	Fusion - Instrument - Futures
Subject Area	Fusion - Instrument - Guarantees

**Property View**

Model_1(2)	Model_1(1)
Created Time	1298955735
Filter Dangling Refs from Schema Gen	False
Is Main Subject Area	False
Modified Time	1298955735
Name	Fusion - HM
User Formatted Name	Fusion - HM (Calculated)

Details... The left and right items are not equal

Finish Cancel

Logical and Physical

## Merging Banking Foundation Data Model with ALM Pack Data Model

Over the Banking Foundation Data model, perform the following steps:

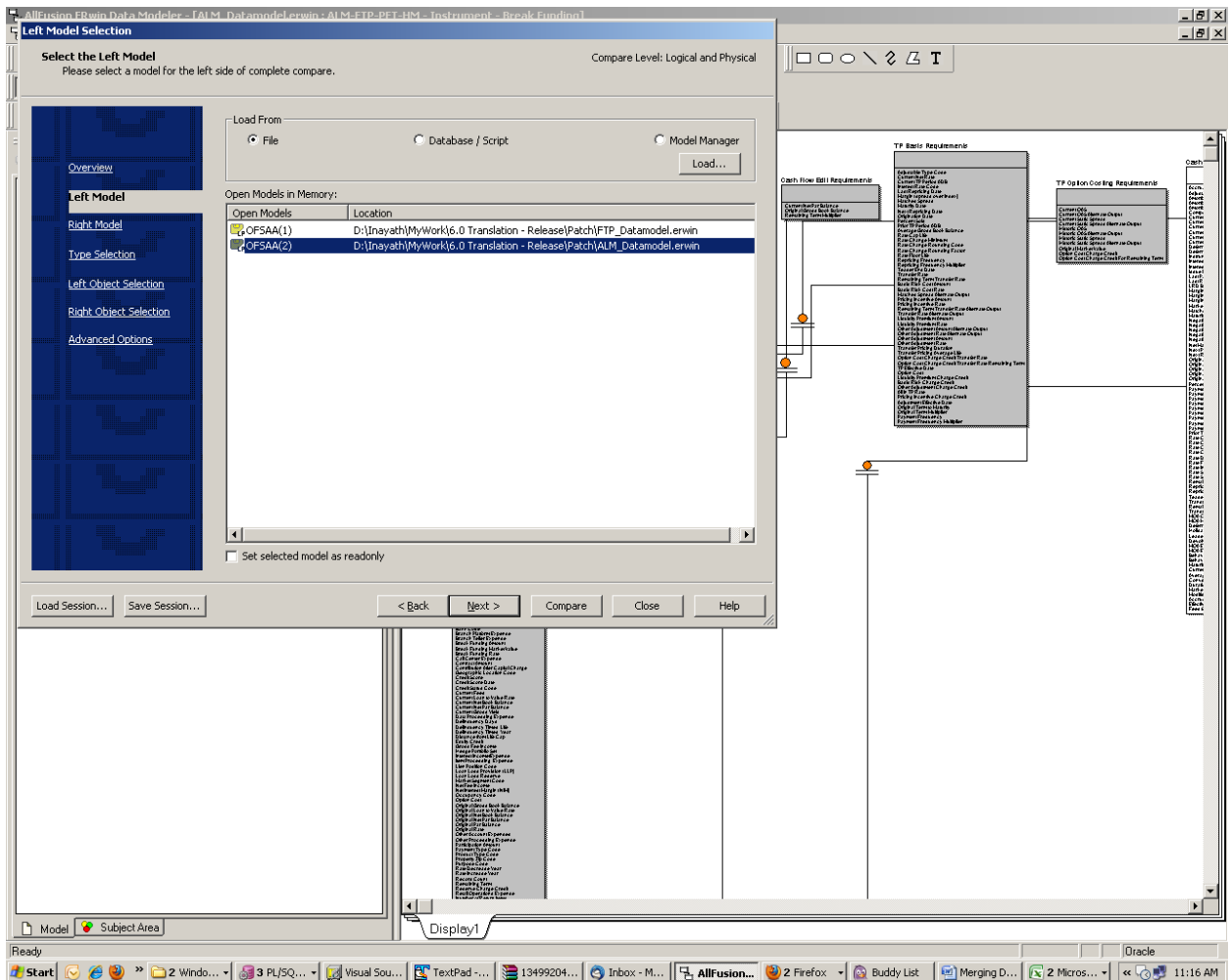
1. Open the merged FSDW model in Left.
2. Open the ALM model in right.
3. Select Subject Areas in the type selection.
4. Compare the models. There will be differences in staging entities. Processing entities can be moved.
5. Move the differences from ALM model (right) into the left model.
6. Save the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



# Merging ALM Pack Data Model Contents with Profitability Pack

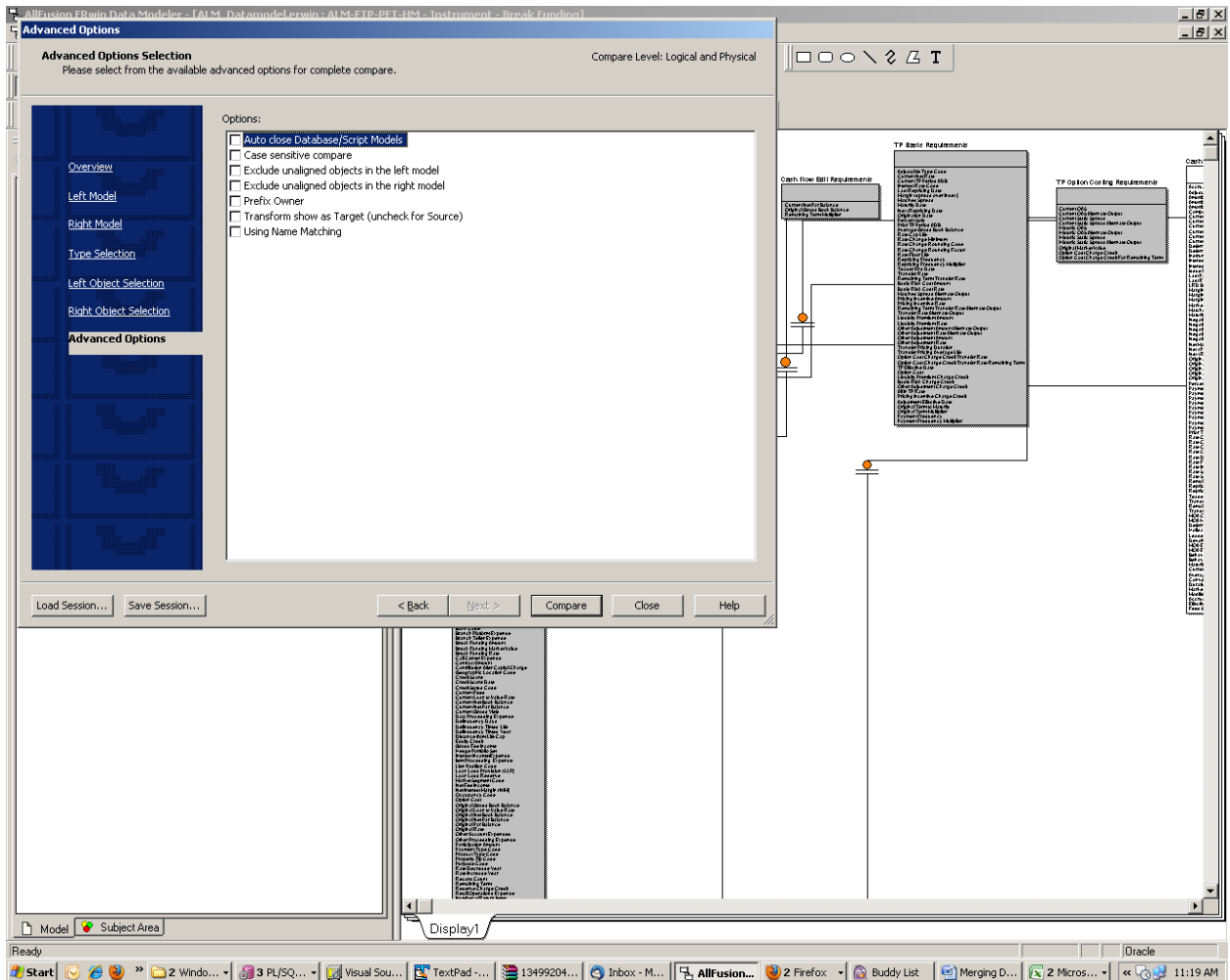
Following document will provide you the instructions for merging ALM data model with Profitability Pack data model:

1. Open ALM and FTP data model using ERwin Data modeler.
2. Navigate to **Tools** and click **Compare**.
3. Select ALM Data model as left model.
4. Select Profitability Pack Data model as Right model.

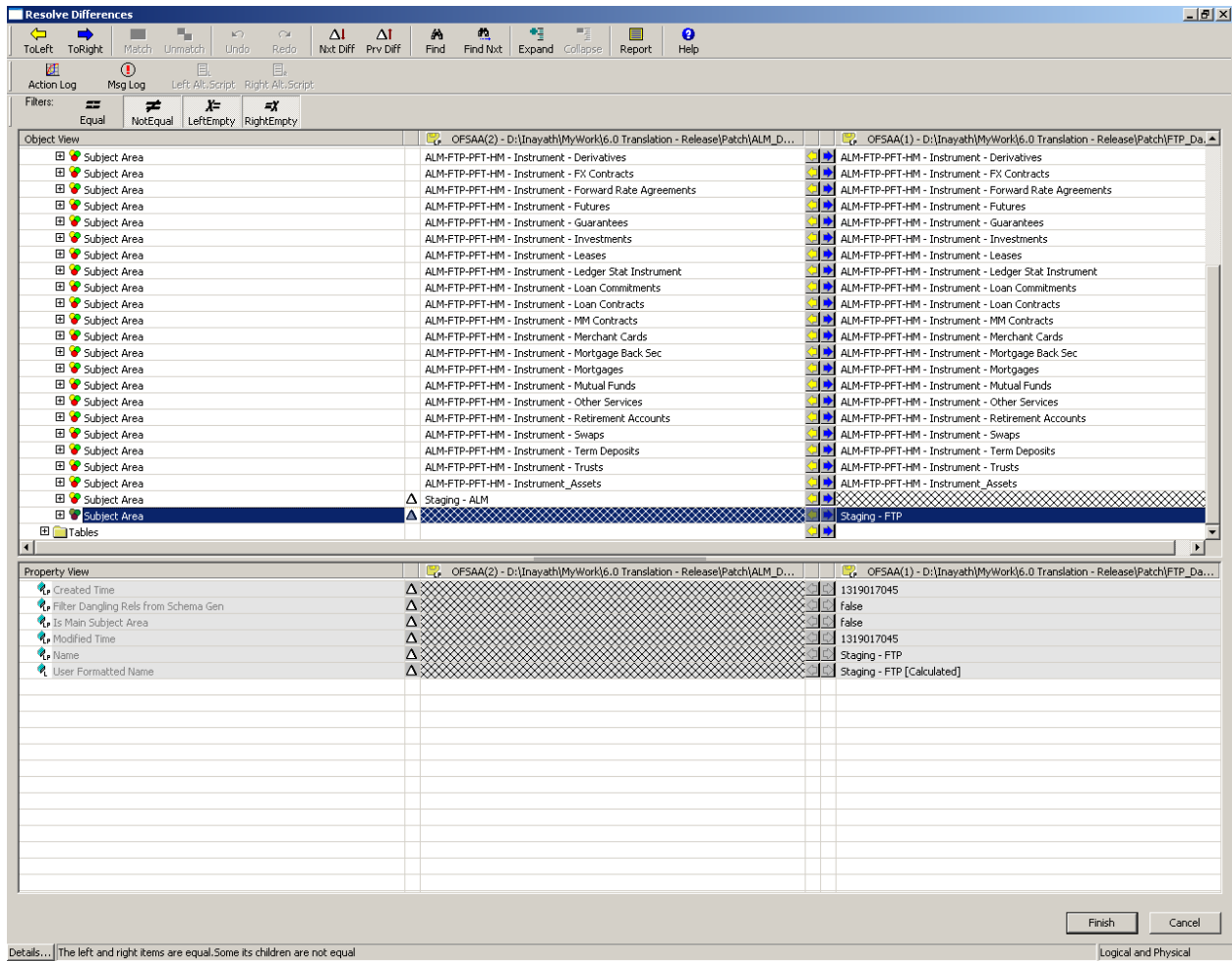


5. Click **Next** and select **Subject Area** under **Type Selection**.





7. Click **Next** and **Compare**.
8. In the **Resolve Differences** window, expand **Tables** and move the following tables to Left side (ALM Data model).
9. Expand **Subject Areas** and move the new subject areas to Left side (ALM Data model).



10. Click **Finish**.

11. Click **Close** to close **Model Compare** window.

12. Save ALM\_Datamodel as the merged ALM\_PFT\_Pack\_\_Merged\_Datamodel.