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## **Dynamic data source and drill-back within FDM**

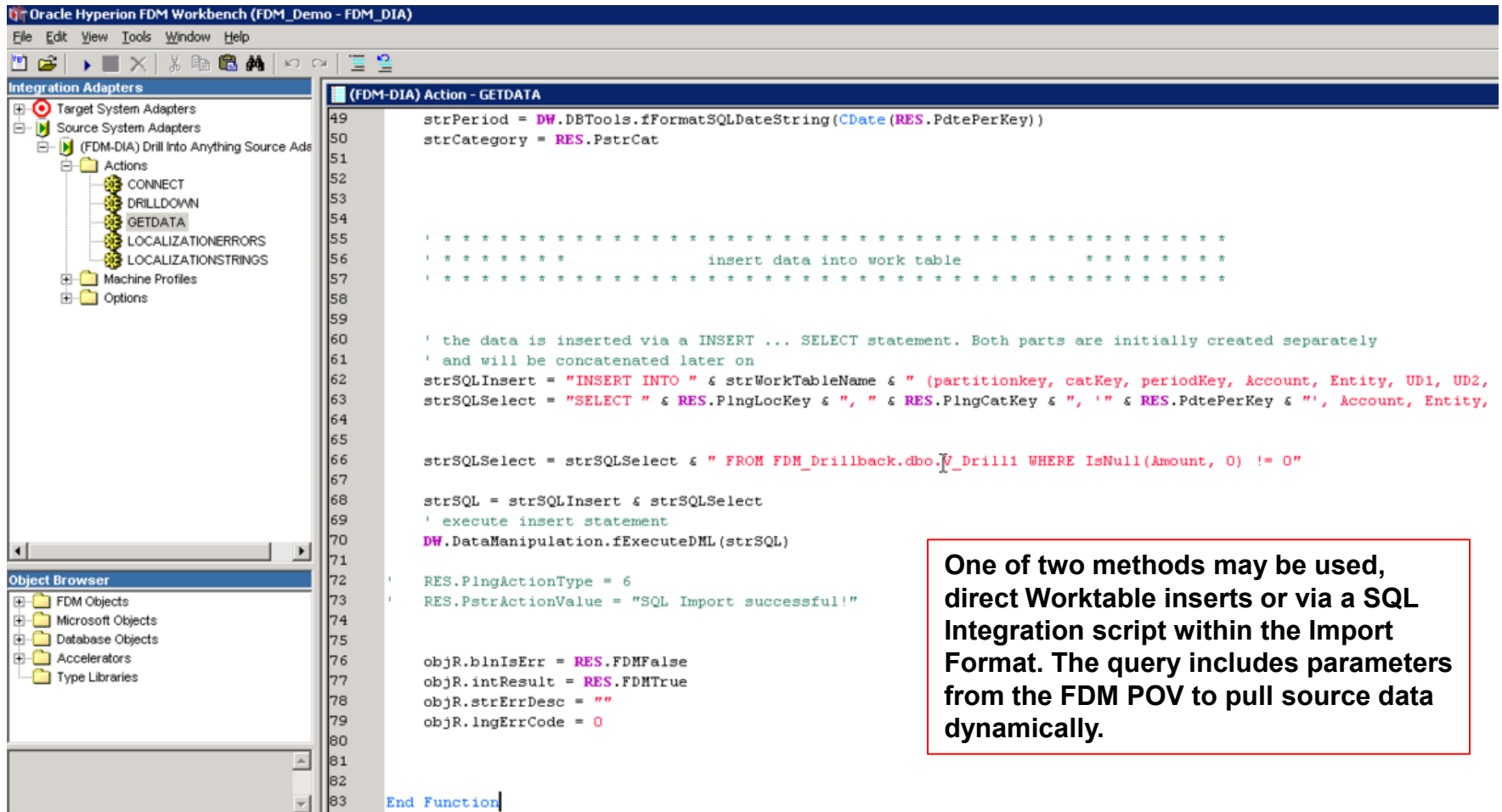
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# Requirements

- Source data from any source system via its data base
- Drill back dynamically from FDM to any source system landing page
- Allows for data queries and drill-back to any GL or source system that has its own DB or DW

# Solution Step 1 – Create Source DB query



The screenshot displays the Oracle Hyperion FDM Workbench interface. On the left, the 'Integration Adapters' pane shows a tree structure with 'Target System Adapters' and 'Source System Adapters'. Under 'Source System Adapters', there is a folder '(FDM-DIA) Drill into Anything Source Adapter' which contains an 'Actions' folder. The 'Actions' folder lists several actions: 'CONNECT', 'DRILLDOWN', 'GETDATA' (which is selected), 'LOCALIZATIONERRORS', and 'LOCALIZATIONSTRINGS'. Below this, there are 'Machine Profiles' and 'Options' folders. The 'Object Browser' pane at the bottom left shows a tree structure with 'FDM Objects', 'Microsoft Objects', 'Database Objects', 'Accelerators', and 'Type Libraries'. The main window displays the '(FDM-DIA) Action - GETDATA' script. The script is a VBA-like function that constructs a SQL query to insert data into a work table. The script includes comments and uses variables like 'strPeriod', 'strCategory', 'strSQLInsert', 'strSQLSelect', and 'strSQL'. The script ends with 'End Function'. A red box highlights a note about two methods for inserting data into the worktable.

```
49 strPeriod = DW.DBTools.fFormatSQLDateString(CDate(RES.PdtePerKey))
50 strCategory = RES.PstrCat
51
52
53
54
55 ' *****
56 ' ***** insert data into work table *****
57 ' *****
58
59
60 ' the data is inserted via a INSERT ... SELECT statement. Both parts are initially created separately
61 ' and will be concatenated later on
62 strSQLInsert = "INSERT INTO " & strWorkTableName & " (partitionkey, catKey, periodKey, Account, Entity, UD1, UD2,
63 strSQLSelect = "SELECT " & RES.PingLocKey & ", " & RES.PingCatKey & ", " & RES.PdtePerKey & ", Account, Entity,
64
65
66 strSQLSelect = strSQLSelect & " FROM FDM_Drillback.dbo.V_Drill1 WHERE IsNull(Amount, 0) != 0"
67
68 strSQL = strSQLInsert & strSQLSelect
69 ' execute insert statement
70 DW.DataManipulation.fExecuteDML(strSQL)
71
72 RES.PingActionType = 6
73 RES.PstrActionValue = "SQL Import successful!"
74
75
76 objR.blnIsErr = RES.FDMFalse
77 objR.intResult = RES.FDMTrue
78 objR.strErrDesc = ""
79 objR.lngErrCode = 0
80
81
82
83 End Function
```

One of two methods may be used, direct Worktable inserts or via a SQL Integration script within the Import Format. The query includes parameters from the FDM POV to pull source data dynamically.

## Solution Step 2 – Modify FDM .ASPX pages for drill

The screenshot shows a web browser window displaying the source code of an ASPX page. The code includes a <script> block with a function displayHttpRequest() and a <div id='httpDebug'> block. A red box highlights a note: "2 of FDM's ASPX pages need to be modified to call a custom drill-back landing page and to pass the current data row's details for context-sensitive drill."

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# Solution Step 3 – Import Data from Source

The screenshot displays the Oracle Hyperion Financial Data Quality Management, Fusion Edition web interface. The top navigation bar includes links for File, Workflow, Activities, Analysis, MetaData, Tools, Administration, and Help. The main content area is divided into four tabs: Import, Validate, Export, and Check, each with a fish icon. The 'Import' tab is active, showing a 'View Options' button, an 'Upload File' button, and a 'Select File From Inbox' button. Below these, there is an 'Import' button and a dropdown menu for 'Import Type' set to 'Replace'. A table with columns 'Source Entity', 'Source Account', 'Account Description', 'Source Product', 'Source SalesPartner', and 'Amount' is displayed. A context menu is open over the table, showing options: 'Show Attributes', 'Show Conversion Rules', 'Show Archive Information', 'Open Source Document', 'Open Source System' (highlighted), 'Open Processing Log', and 'Restore Source Document'. A red box with text is overlaid on the bottom right of the interface.

Import Validate Export Check

View Options Upload File Select File From Inbox

Import Import Type: Replace

Delete All Export to Excel

	Source Entity	Source Account	Account Description	Source Product	Source SalesPartner	Amount
-	E_400401	202000		P_0	I_000	
-	E_400401	400001		P_410	I_000	
-	E_400401	400001		P_485	I_000	
-	E_400401	400010		P_460	I_000	
-	E_400401	400012		P_460	I_000	
-	E_400401	400201		P_410	I_000	
-	E_400401	400301		P_410	I_000	4,518.00
-	E_400401	400301		P_485	I_000	76.00
-	E_400401	400501		P_323	I_000	3,617.00
-	E_400402	202000		P_0	I_000	96,541.00
-	E_400402	400001		P_410	I_000	79,829.00
-	E_400402	400010		P_460	I_000	
-	E_400402	400012		P_460	I_000	
-	E_400402	400201		P_410	I_000	
-	E_400402	400301		P_410	I_000	

Page (1 of 2) 1 2 > >> < <<

The user simply clicks on import to import data, and Open Source System to drill to the custom source system within the current context.

# Solution Step 4 – Drill back to Custom System 1

The screenshot shows a web browser window titled "FDM - Drill Into Anything - Microsoft Internet Explorer". The page content is titled "FDM - Drill Into Oracle E-Business Suite". Below the title, the following context is displayed:

- Location: FDM-DIA
- Period: July - 2010
- Category: Actuals

The main data is presented in a table with the following columns: Nr., Entity, Account, Product, Sales Partner, and Amount. The table contains 29 rows of data, all with Entity "E\_400401", Account "202000", Product "P\_0", and Sales Partner "I\_000". The Amount column shows values ranging from 1.0 to 6.0. Each row has two links: "View Details" and "View Invoice".

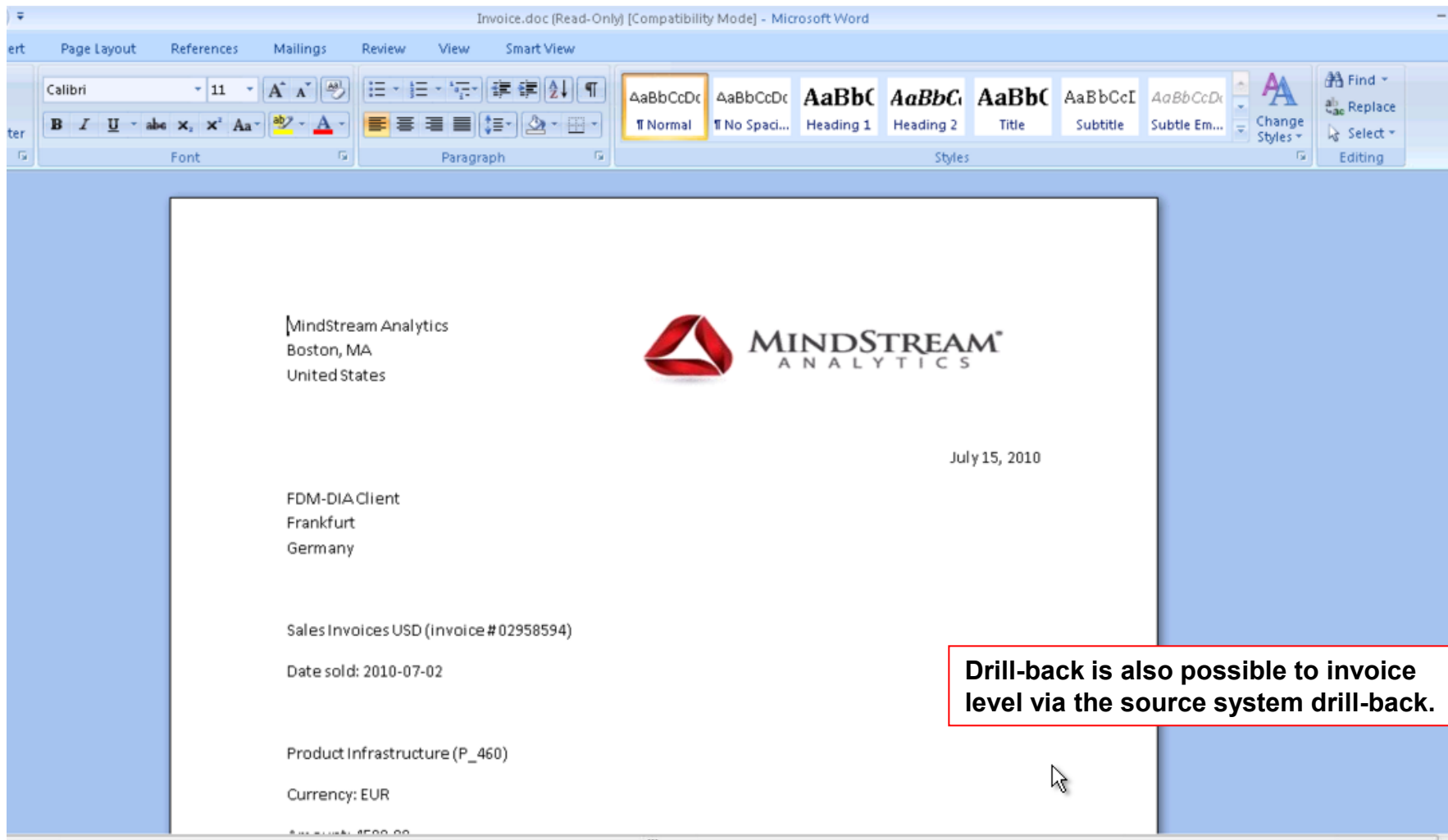
On the right side of the page, there is a summary section titled "Amount" with a list of values: 548,155.00, 491,020.00, 4,235.00, 16,704.00, 2,978.00, 25,055.00, 4,518.00, 76.00, 3,617.00, and 95,541.00.

The following table represents the data shown in the screenshot:

Nr.	Entity	Account	Product	Sales Partner	Amount
1	E_400401	202000	P_0	I_000	1.0
2	E_400401	202000	P_0	I_000	2.0
3	E_400401	202000	P_0	I_000	4.0
4	E_400401	202000	P_0	I_000	4.0
5	E_400401	202000	P_0	I_000	4.0
6	E_400401	202000	P_0	I_000	4.0
7	E_400401	202000	P_0	I_000	4.0
8	E_400401	202000	P_0	I_000	4.0
9	E_400401	202000	P_0	I_000	4.0
10	E_400401	202000	P_0	I_000	4.0
11	E_400401	202000	P_0	I_000	5.0
12	E_400401	202000	P_0	I_000	6.0
13	E_400401	202000	P_0	I_000	6.0
14	E_400401	202000	P_0	I_000	6.0
15	E_400401	202000	P_0	I_000	6.0
16	E_400401	202000	P_0	I_000	6.0
17	E_400401	202000	P_0	I_000	6.0
18	E_400401	202000	P_0	I_000	6.0
19	E_400401	202000	P_0	I_000	6.0
20	E_400401	202000	P_0	I_000	6.0
21	E_400401	202000	P_0	I_000	6.0
22	E_400401	202000	P_0	I_000	6.0
23	E_400401	202000	P_0	I_000	6.0
24	E_400401	202000	P_0	I_000	6.0
25	E_400401	202000	P_0	I_000	6.0
26	E_400401	202000	P_0	I_000	6.0
27	E_400401	202000	P_0	I_000	6.0
28	E_400401	202000	P_0	I_000	6.0
29	E_400401	202000	P_0	I_000	6.0

The source system landing page is displayed with the same context as the FDM drill page. In this case we see a custom EBS GL view.

## Solution Step 5 – Drill back to Custom System 2



# Summary

- This is a custom drill-back solution and needs to be updated if the source system is upgraded or new FDM locations are added.
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