

Analysis Process Designer - Step by Step Process to Extract Data to a File and Rearranging the Columns Using Transformations



Applies to:

SAP BI 7.0. For more information, visit the [EDW homepage](#)

Summary

This article gives clear picture about how to down load the data into a .CSV file from data sources and Hiding and re-arranging the columns according to the user's requirement

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Author Bio

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Introduction

The Analysis Process Designer (APD) is a workbench with an intuitive graphical user interface for creating, executing, and monitoring analysis processes. The analysis process is primarily based on data that was consolidated in the Data Warehouse and that exists in InfoProviders.

Analysis processes (APD) can be created on a graphical user interface using drag and drop. Data from different data sources in the BI system can be combined, transformed, and prepared for analysis in several individual steps. This allows it to be resaved in data targets in the BI system (DataStore objects for direct update or InfoObjects with attributes) or in CRM system.

Live Scenario

I have data in Datastore Object and I want to save the data into Flat File in .CSV format in Desktop or Application Server. Here I'm saving the file in Desktop.

I have some Key fields and Data Fields in DSO as below

Purchasing document number	= 0OI_EBELN
Item number of purchasing document	= 0OI_EBELP
Base Unit of Measure	= 0BASE_UOM
Purchase order quantity	= 0D_PO_QTY
Material	=0GT_MATNR

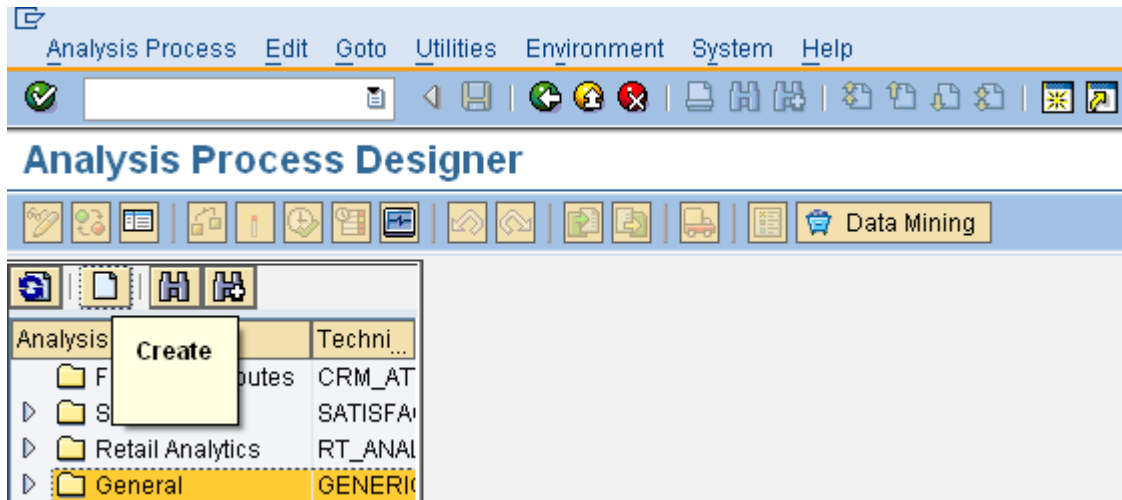
But while downloading the data into .CSV file, I want to re-arrange the columns as below

Purchasing document number	= 0OI_EBELN
Item number of purchasing document	= 0OI_EBELP
Material	=0GT_MATNR
Purchase order quantity	= 0D_PO_QTY
Base Unit of Measure	= 0BASE_UOM

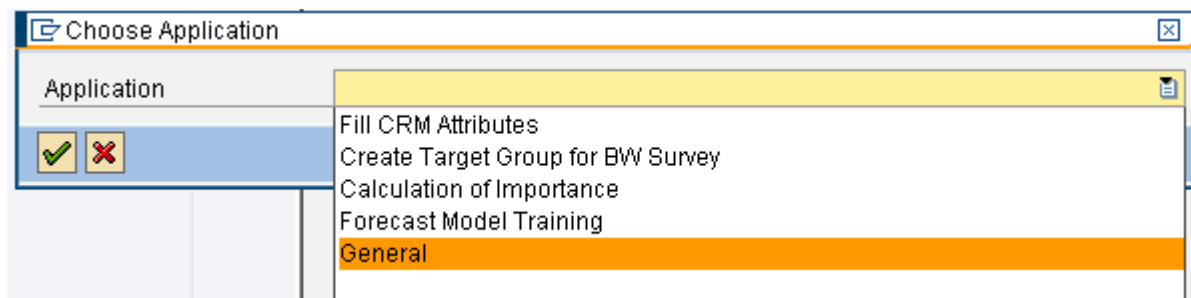
Creating a APD

Step: 1

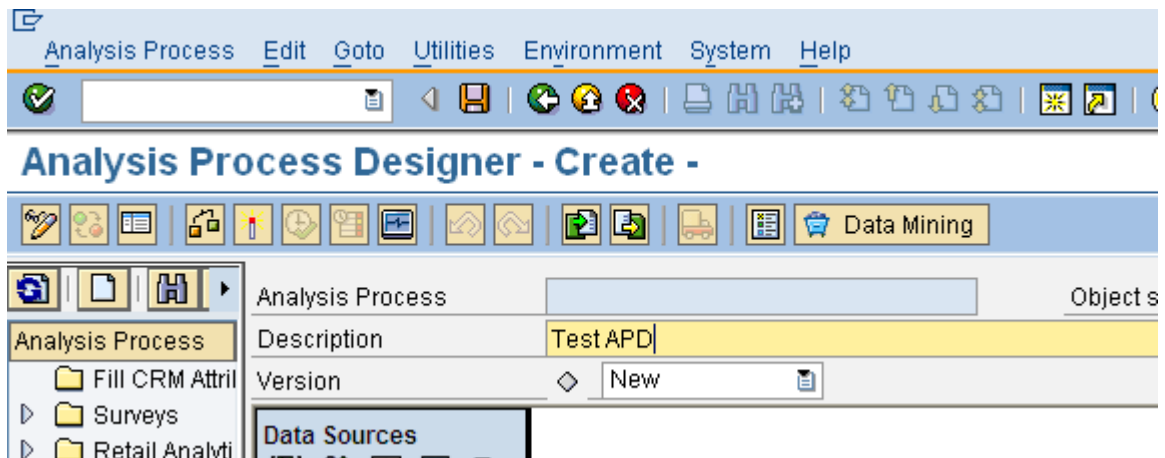
- a) Go to RSNWB Transaction code and create new Analysis Process.



- b) Choose the Application as “GENERAL”

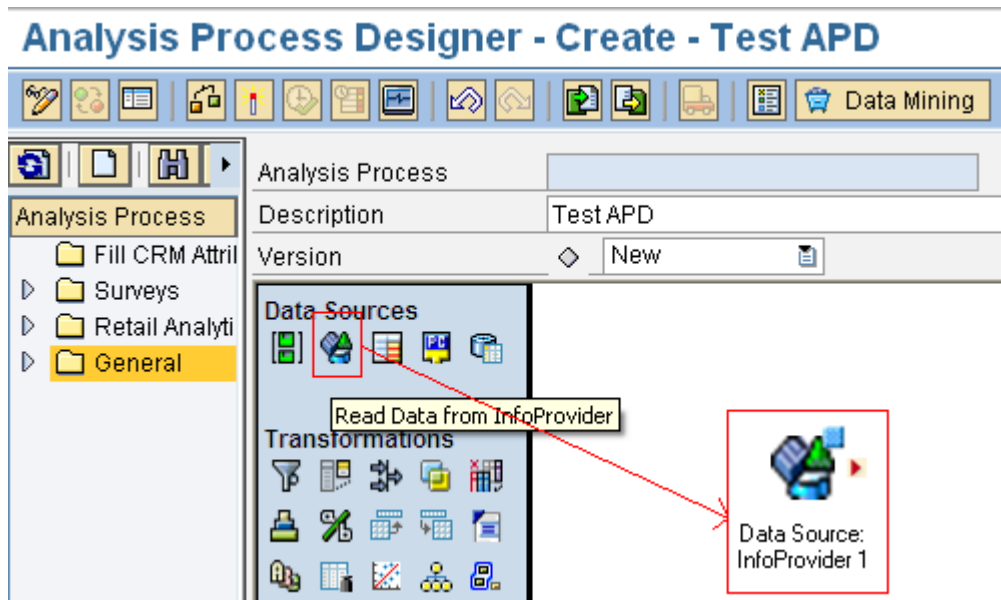


- c) Give the Description

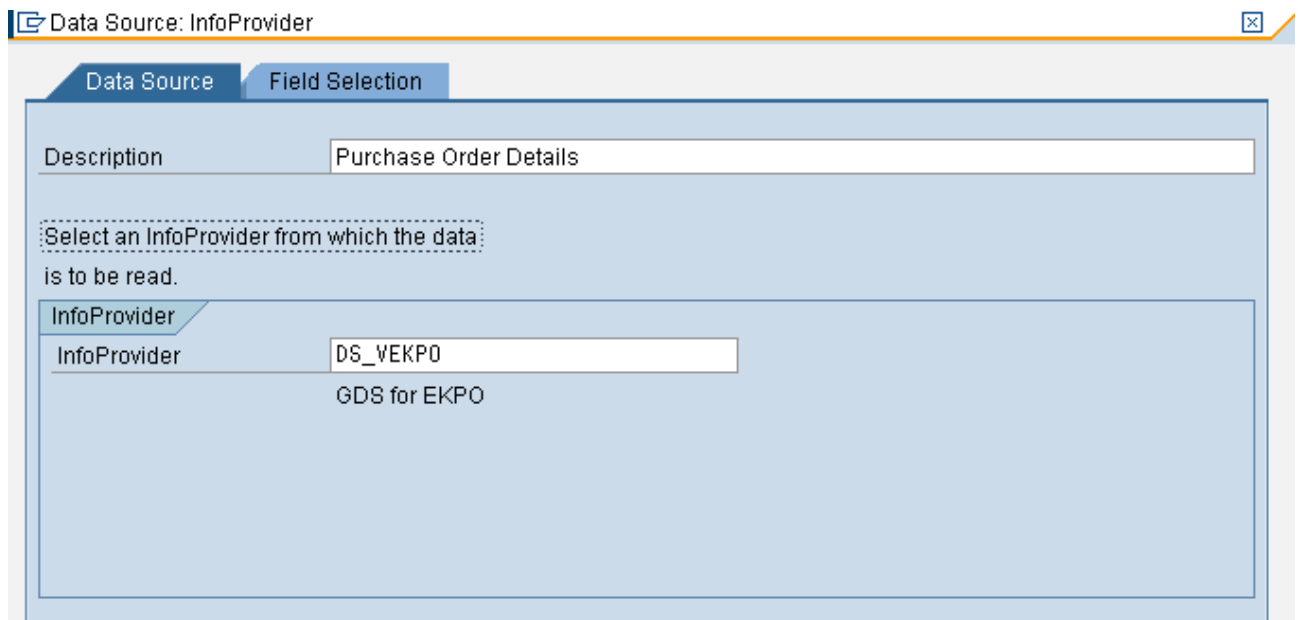


Step: 2

- d) Drag and Drop DataSource i.e. Read Data from InfoProvider



- e) A Popup appears as below
 f) Give the Description and Select the InfoProvider from which the data is to be read



- g) Select the required InfoObjects from Field selection and move it from right side panel to left side Panel.

Data Source: InfoProvider

Data Source | Field Selection

Selected Characteristics

Description	Field Name
Material	0GT_MATNR
Purchasing document number	00I_EBELN

Selected Key Figures

Description	Aggr...	Field Name
Purchase order quantity (€)	SUM	0D_PO_QTY

Available Characteristics

Description	Field Name
Base Unit of Measure	0BASE_UOM
Item number of purchasing	00I_EBELP

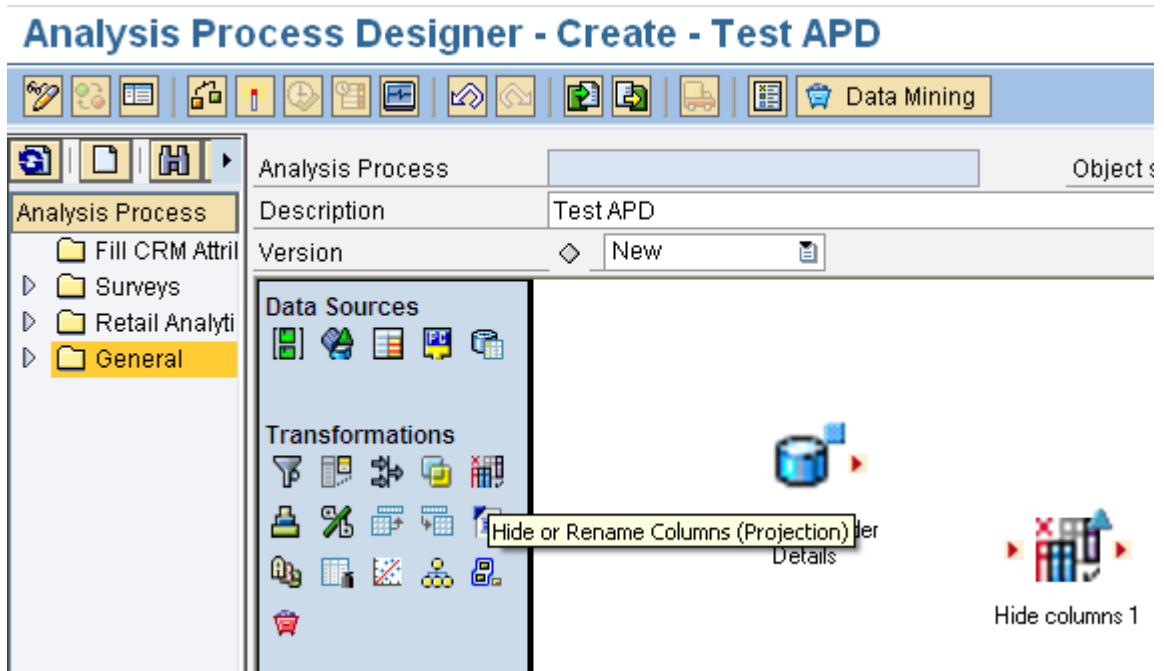
Available Key Figures

Description	Field Name
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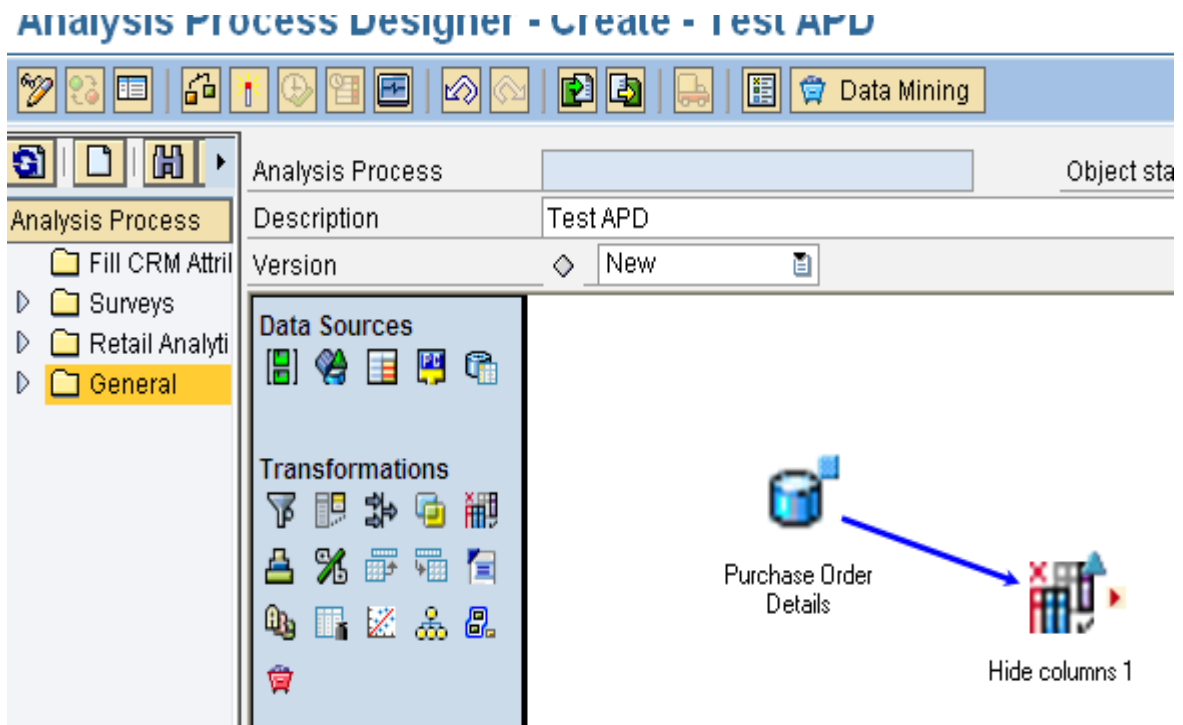
◀ Move to the left ▶

Step: 3

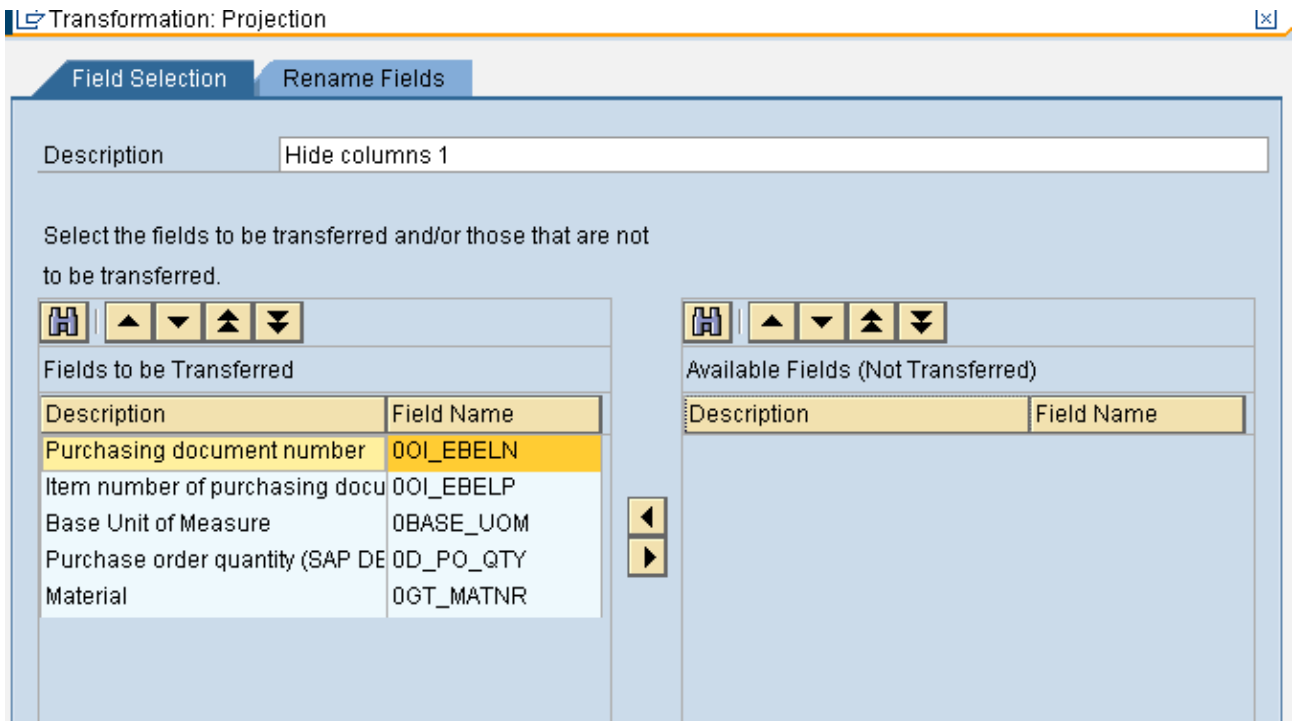
- h) Select the Hide or Rename Columns from the transformations



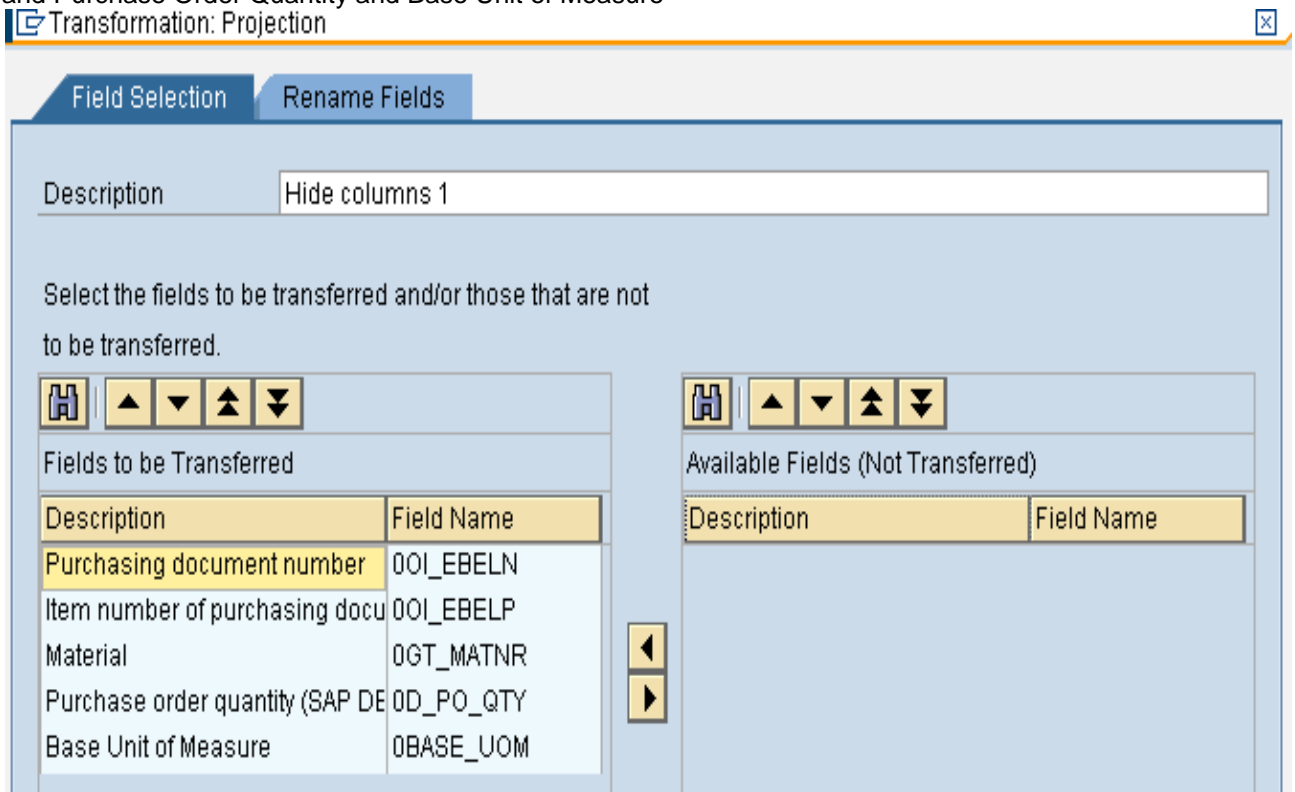
- i) Create a node by dragging the DSO to Hide Columns as below



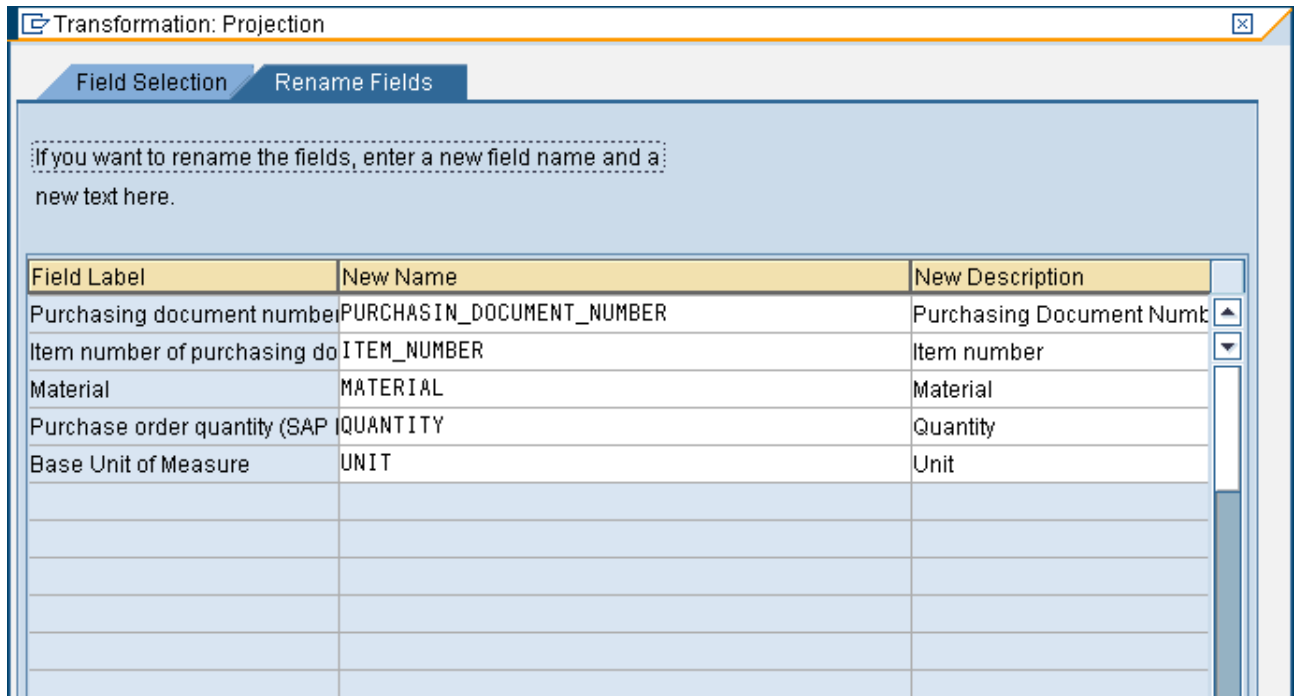
- j) Double click on the Hide columns and initially the columns will be as below



- k) Now re-arrange the fields as per your requirement, In the below screen I have re-arranged Material and Purchase Order Quantity and Base Unit of Measure

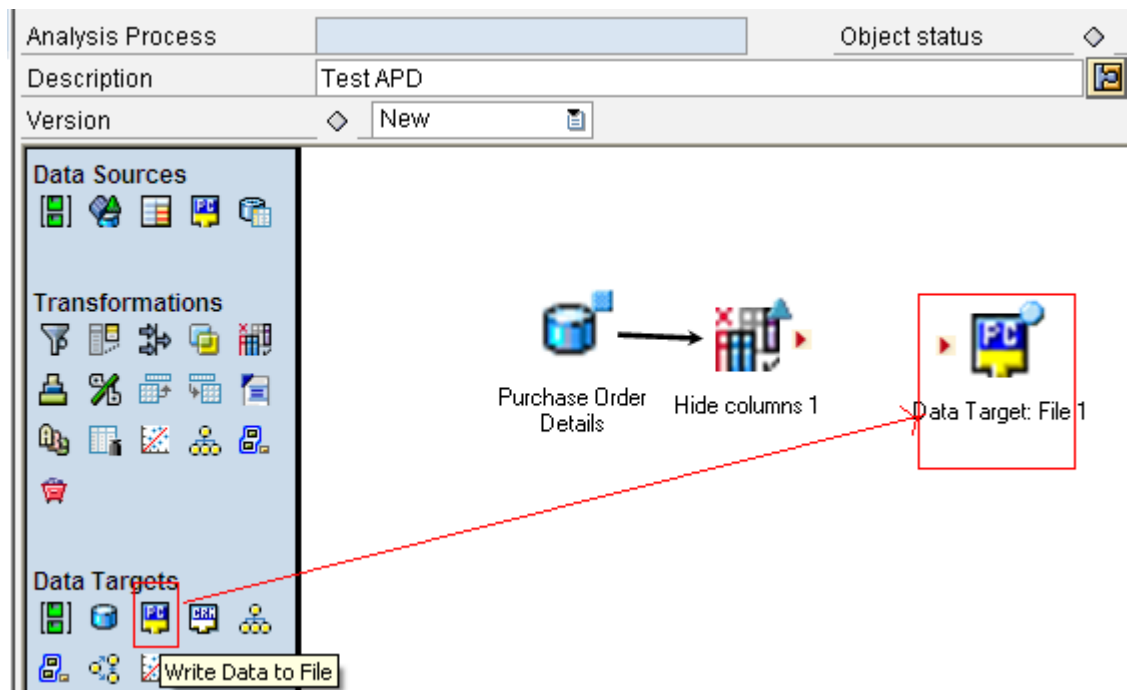


- l) Now Rename the fields as per your needs by Choosing Rename Fields tab



Step: 4

m) Then Drag and Drop Write Data to File.



n) A popup will appear as below.

o) Give the Description and File Path and maintain the extend settings as per your requirement

Data Target: File

Data Target | **CSV File Properties**

Description: Purchase Order

Specify Where the File Should Be Generated

Write Data to:

- Client Workstation
- Application Server

Logical File Name

File: C:\Documents and Settings\lappexus\Desktop\Purchase_

Extended Settings:

Write Mode: Create File Again. If Already Available: Error Message

Insert Header Row with Field Names in the First Row of the File

✓ ✗ ?

p) Give the Separators and Separate Field Name

Data Target: File

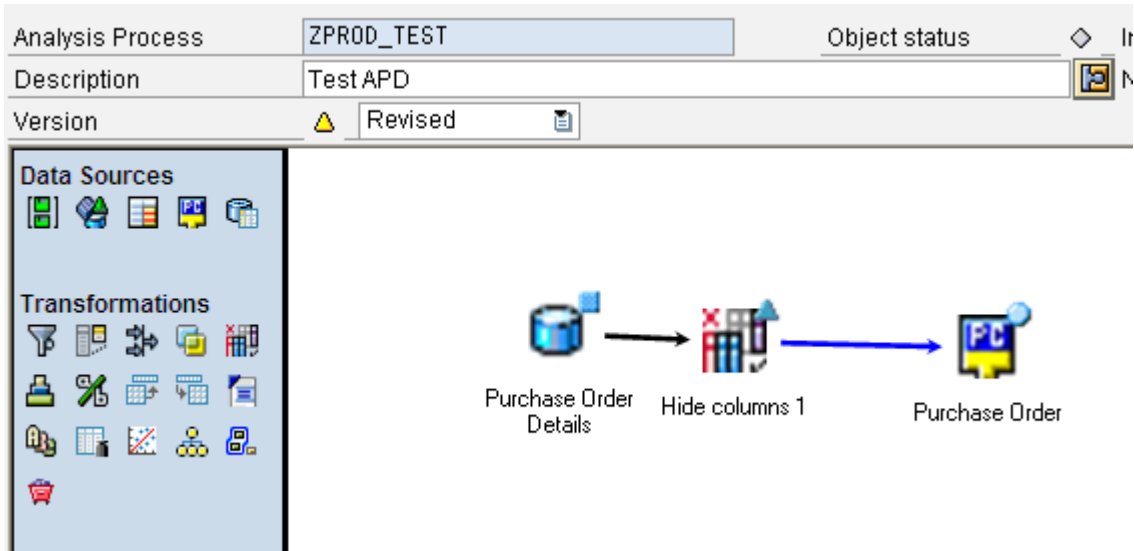
Data Target | **CSV File Properties**

Separators: ,

Separator Field Name/InfoObject: :

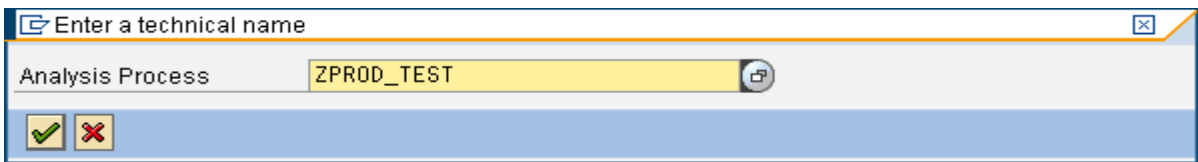
✓ ✗ ?

q) Create a node by dragging the Hide Columns to File as below



r) Save the APD

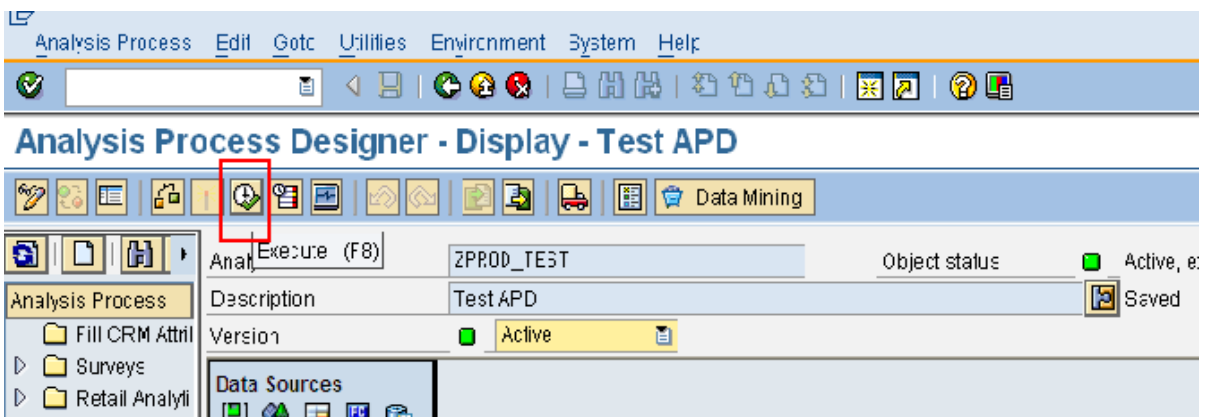
s) It will ask for an Analysis Process name



t) Check and Activate the APD



u) Execute the APD



v) Once you execute , you will get a screen which Displays Screen logs

Type	Message Text

	Execute analysis process ZPROD_TEST, version A
	Execute Analysis Process

	Processing started for analysis process ZPROD_TEST
	Data is written to the following file:
	--- Workstation: TRWWS59
	--- File name: C:\Documents and Settings\lappexus\Desktop\Purchas
	Source data is being read and the result is being calculated
	File was generated. 28.173 records were written
	Data successfully written to the data target of the analysis process

	Processing completed successfully for analysis process ZPROD_TEST

Output

	A	B	C	D	E
1	PURCHASIN_DOCUMENT_NUMBER	ITEM_NUMBER	MATERIAL	QUANTITY	UNIT
2	4500017111	30		0	
3	4500017273	10		0	
4	4600000018	10		0	
5	4600000018	20		0	
6	4600000027	10		0	
7	4600000028	10		0	
8	4600000029	10		1	
9	4600000030	10		0	
10	4600000030	20		0	
11	4600000031	10		0	
12	4600000032	10		0	
13	4700000014	20		0	
14	4500012647	10	CP-1020	100	BOX
15	4500012648	10	CP-1021	100	BOX
16	4500012649	10	CP-1022	100	BOX
17	4500012650	10	CP-1023	100	BOX
18	4500012651	10	CP-1024	100	BOX
19	4500012652	10	CP-1025	100	BOX
20	4500012653	10	CP-1026	100	BOX
21	4500012654	10	CP-1027	100	BOX
22	4500012655	10	CP-1028	100	BOX
23	4500012656	10	CP-1029	100	BOX
24	4500017093	10	NGL-CON	1000	BOX
25	4500017300	10	1627	9	CSE
26	4500014010	10	1500	500	CSE

Related Content

[Analysis Process Designer](#)

[Analysis Process Designer \(APD\) Part - 1](#)

[Re-arrange the flat file out put in APD](#)

For more information, visit the [EDW homepage](#)

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