

Creating Crystal Report Output for BI BEx Query



Applies to:

SAP NetWeaver BI 7.0

Crystal Reports 2008

BusinessObjects XI 3.0 Integration Kit for SAP

SAPGUI 6.x/7.x

Summary

In this article, I will be describing the step by step approach of creating a Crystal report for your existing BI BEx query.

Author: B.Velu Pillai

Company: Intel Corporation

Created on: 07 May 2008

Author Bio



BV PILLAI (Velu Pillai) is working in Intel Technology India Pvt. Ltd as a Forward Engineer for Netweaver Portal & Application Platform. He is currently working on the Composition Environment/Enterprise Service Repository, RFID, Enhancement/Switch framework, Visual Composer and Web dynpro for ABAP as part of the Netweaver 7.0 exploration at Intel.

Table of Contents

Introduction	3
Creating Crystal Reports for BEx Query	3
Related Content	8
Disclaimer and Liability Notice	9

Introduction

SAP, after the acquiring Business Objects (now part of SAP group of companies), offers both base and premium products for existing BI customers. Crystal Report, one of the premium product offering, gives you an option of creating reports for existing BI queries (Queries developed using the BEx Query Designer) and this product is tightly integrated with your BI system and uses the MDX (Multi-dimensional Expressions) query language to retrieve the query output for the Crystal report fields.

We can get an idea of the product availability roadmap in the following link

<https://www.sdn.sap.com/irj/sdn/go/portal/prtroot/docs/library/uuid/10c3bca6-7dbc-2a10-7aa8-81d2731c7bb1>

) SAP supports their base offerings (BEx Report Designer) till 2016 and after it will be replaced with the complimentary product 'Crystal Reports light'.

Here are the pre-requisites:

- SAP NetWeaver BI 7.0
- Crystal Reports 2008
- Business Objects XI 3.0 Integration Kit for SAP
- SAPGUI 6.x/7.x

You can download the 30 days evaluation version of Crystal Reports 2008 from the following link.

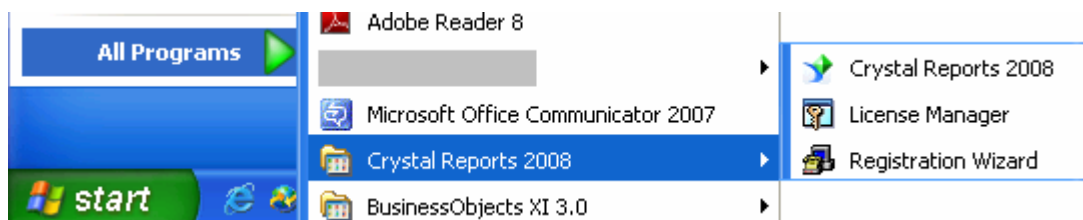
<http://www.businessobjects.com/product/catalog/crystalreports/>

Also you can download the 90 days evaluation version of 'Business Objects XI 3.0 Integration Kit for SAP' from the following link.

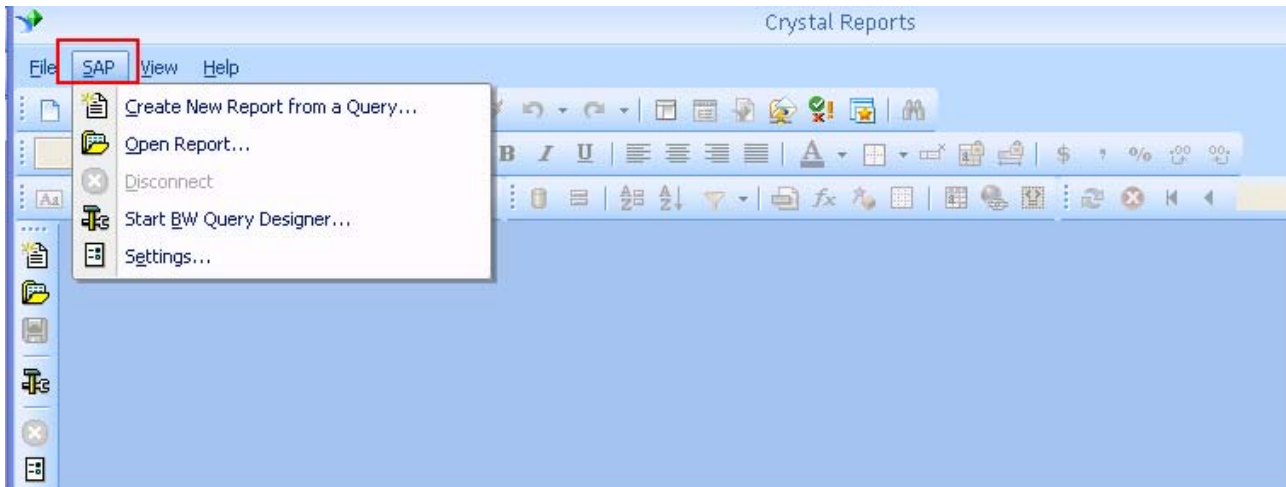
<https://boc.sdn.sap.com/node/18962>

Creating Crystal Reports for BEx Query

After installing Crystal Reports 2008, you have to install the 'Business Objects XI 3.0 Integration Kit for SAP'.



SAP Integration Kit will enable the 'SAP' menu option available as part of your Crystal Reports 2008.



Before you start creating the Crystal report for your BI BEx query, you need to test the BEx query from the SAP BI system using the 'MDXTEST' transaction as shown below:

MDX Test Editor

CATALOG: OSD_C04 Query: # 1:<New Query>
 CUBE: OSD_C04_Q0003 - Delivery delay quantity view in order unit for mat

Available Objects

- Delivery delay quantity view in order unit for mat [OSD_C04/OSD_C04_Q0003]
 - Distribution Channel [0DISTR_CHAN]
 - Division [0DIVISION]
 - Material [0MATERIAL]
 - Sales Organization [0SALESORG]
 - Sold-to party [0SOLD_TO]
 - Calendar Year/Month [0CALMONTH]
 - Key Figures [Measures]
- Syntax Templates
 - SELECT Statements
 - Ranking Expressions

```

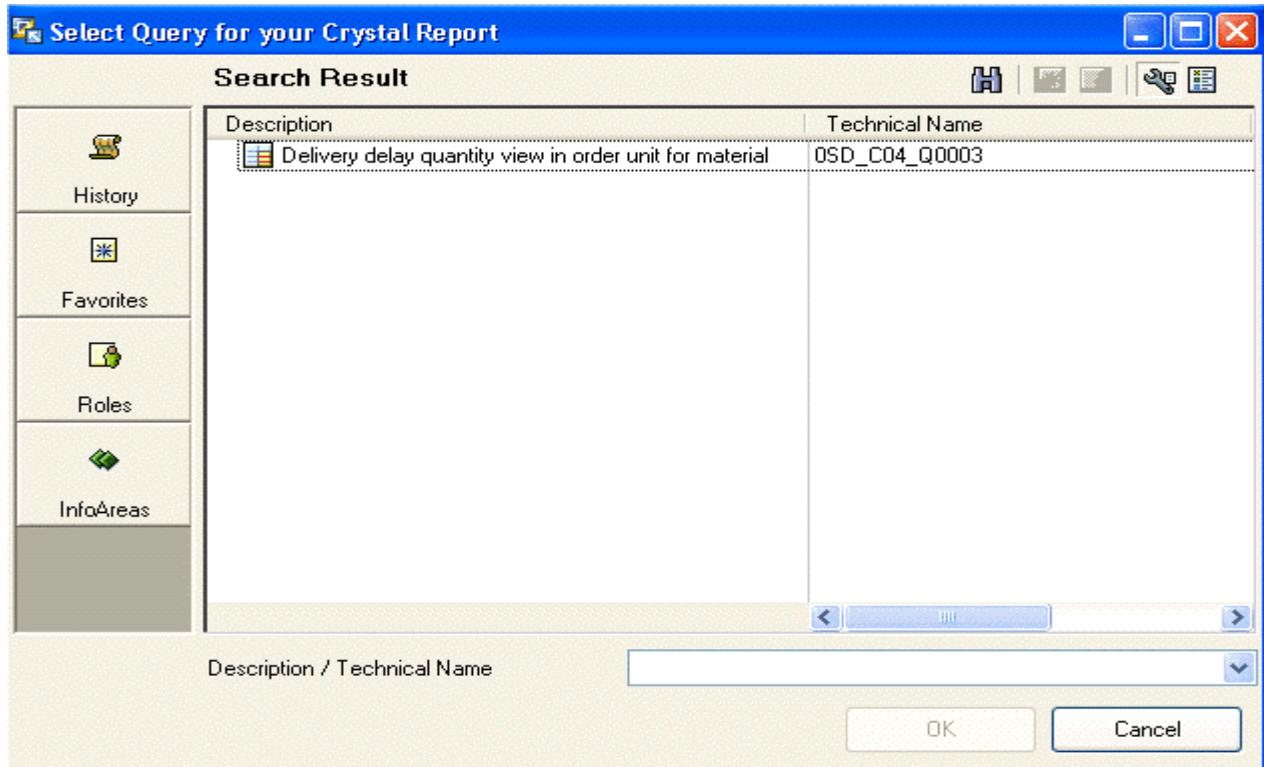
SELECT
[Measures].MEMBERS ON AXIS(0) ,
NON EMPTY [0CALMONTH].MEMBERS
* [0MATERIAL].MEMBERS ON AXIS(1)
FROM [OSD_C04/OSD_C04_Q0003]
    
```

		delivered too early	delivered correctly	delivered too late
All Calendar Year/Month	All Material	15 EA	3,511 EA	0 EA
All Calendar Year/Month	Canned Beans, labeled	0.000	0.000	0.000
All Calendar Year/Month	Mini-Cookies	0 EA	2,000 EA	0 EA
All Calendar Year/Month	ROBOT 1(AUTOMOT, HANDL, 6 AXES)	1 EA	0 EA	0 EA
All Calendar Year/Month	SERVO MOTOR	0 EA	2 EA	0 EA
All Calendar Year/Month	Chocolate 1 lb	0 EA	1,312 EA	0 EA
All Calendar Year/Month	Frozen Pizza Four Seasons	0 EA	95 EA	0 EA
All Calendar Year/Month	Ready Meal Chop Suey	0 EA	100 EA	0 EA
All Calendar Year/Month	Pallet	0 EA	1 EA	0 EA
All Calendar Year/Month	Network adapter Ethernet	1 EA	0 EA	0 EA
All Calendar Year/Month	SCSI Controller	1 EA	0 EA	0 EA
All Calendar Year/Month	Desktop	1 EA	0 EA	0 EA
All Calendar Year/Month	Graphic adapter 32 MB	1 EA	0 EA	0 EA

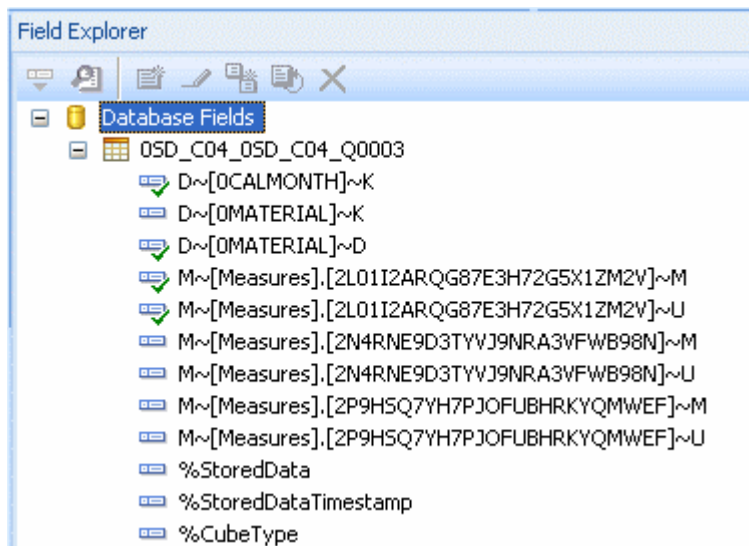
Note: Make sure that the RFC destination "MDX_PARSER" is working in your BI SAP System.

Now open your Crystal Reports 2008 and navigate the menu option SAP ->Create New Report from a Query. System will prompt for the SAP BI system selection (System from your SAP Logon pad), select your BI system and login with your BI system credentials.

Now search for a query with technical name 'OSD_C04_Q0003' like below:



After selecting the query, you can find all the key figures and characterizes of the BEx query will be available in Crystal Reports under 'Database Fields'.



Now you can create a blank report using a template and start dragging the required fields from the database fields in design mode as shown below:

OSD_C04_Q0003 x

Design Preview

Report Header

Page Header a

Delivery Delay Quantity Report

Business Objects

Report Description:
Report Comments

Page Header b

Details

Year/Month	Material	RTotal0
D~[0CALM0]~[0MATERIAL]~D	E3H72G5X1ZM2V]~M~L01I2ARQG87E3H,	#RTotal0

Report Footer

Save your report, which will save it in the BI system (you have an option to save locally with .rpt extension using the option 'Save As'.)

Click on the preview tab to display the preview of your crystal report with the data from your BI query.

OSD_C04_Q0003 x

Design Preview x

Groups

OSD_C04_Q000 PHa

Delivery Delay Quantity Report

Business Objects

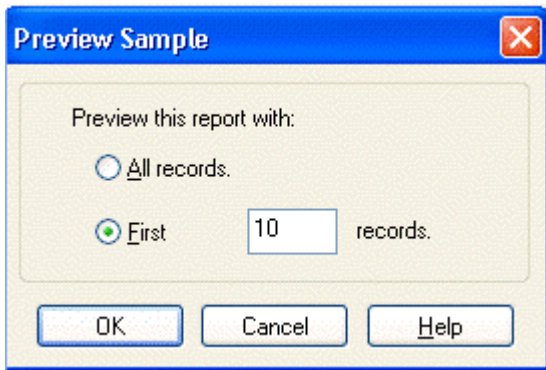
Report Description:

Year/Month	Material		RTotal0
D	03/2005 Chocolate 1 lb	0.00	EA 0.00
D	03/2005 Ready Meal Chop Suey	0.00	EA 0.00
D	03/2005 SERVO MOTOR	0.00	EA 0.00
D	04/2005 Mini-Cookies	0.00	EA 0.00
D	04/2005 Canned Beans, labeled	0.00	EA 0.00
D	04/2005 Chocolate 1 lb	0.00	EA 0.00
D	04/2005 Frozen Pizza Four Seasons	0.00	EA 0.00
D	04/2005 Pallet	0.00	EA 0.00
D	04/2005 ROBOT 1(AUTOMOT, HANDL, i	1.00	EA 0.00
D	04/2005 Network adapter Ethernet	1.00	EA 0.00

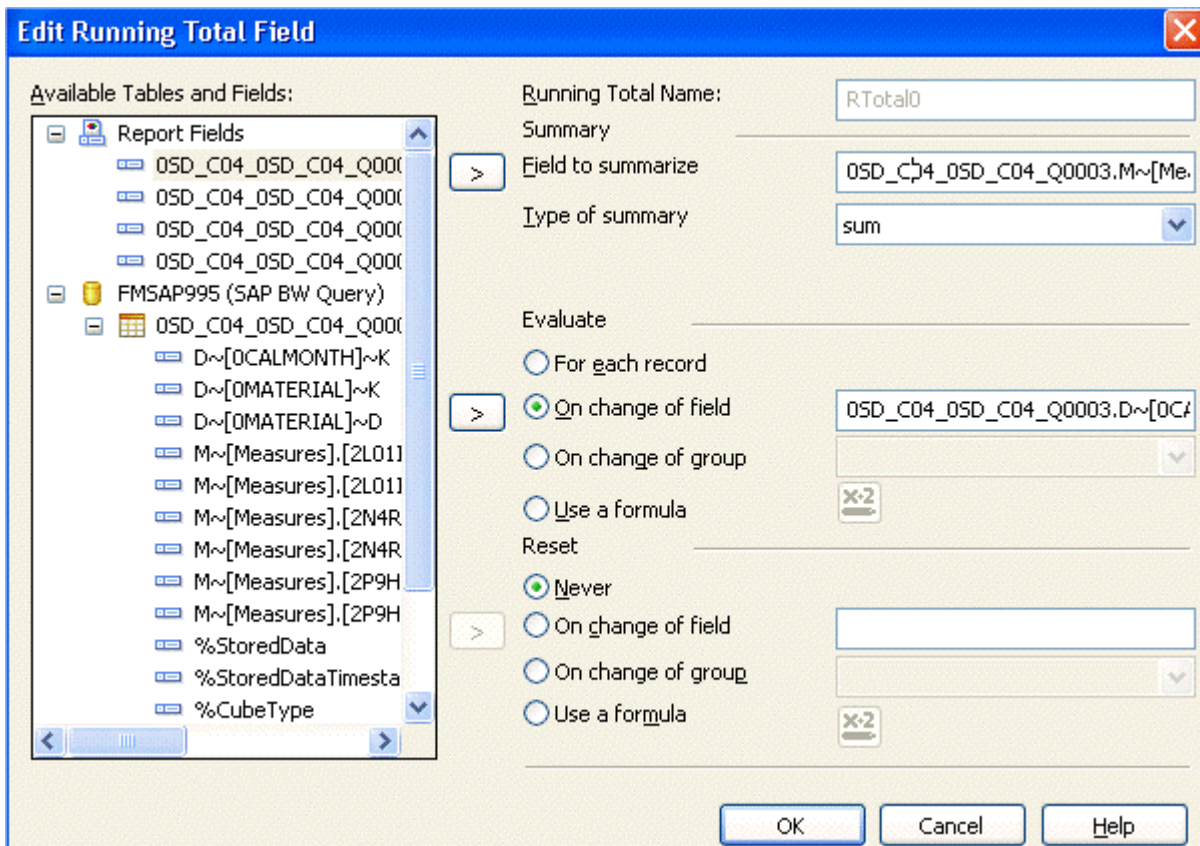
PHb

RF

You can also view the preview sample from the menu option 'View -> Preview Sample' by specifying the no of records to be displayed in the output.



Also you can create running total field (calculated field @ design time) and add it as part of your report output as shown below:



As an optional step, you can install the Crystal Enterprise server to publish your report output.

Related Content

Business Objects and SAP Blogs

<https://www.sdn.sap.com/irj/sdn/weblogs?blog=/pub/wlg/8560>

<https://www.sdn.sap.com/irj/sdn/weblogs?blog=/pub/wlg/8686>

<https://www.sdn.sap.com/irj/sdn/weblogs?blog=/pub/wlg/8760>

Disclaimer and Liability Notice

This document may discuss sample coding or other information that does not include SAP official interfaces and therefore is not supported by SAP. Changes made based on this information are not supported and can be overwritten during an upgrade.

SAP will not be held liable for any damages caused by using or misusing the information, code or methods suggested in this document, and anyone using these methods does so at his/her own risk.

SAP offers no guarantees and assumes no responsibility or liability of any type with respect to the content of this technical article or code sample, including any liability resulting from incompatibility between the content within this document and the materials and services offered by SAP. You agree that you will not hold, or seek to hold, SAP responsible or liable with respect to the content of this document.