Extensibility Guide | PUBLIC

Report on General Ledger Account Line Item with Project Reference

THE BEST RUN SAP

Content

1 Disclaimer

> **i** Note
>
> This sample scenario is for learning purposes only. It is intended to give you an understanding of the various technical aspects related to extending SAP S/4HANA Cloud. The sample scenario may not always be available in a readily consumable state due to the continuous improvements being made in the underlying products or services. If this is the case, appropriate adaptations based on the latest documentation of the respective products or services are required.

This scenario only works as described in this guide. As the scenario is based on underlying complex data structures, modifications could corrupt the overall results by changing the cardinality of the data views. Modifications encompass, for example, additional fields or other data sources. When you are adding additional fields or data sources, please check that the modifications ensure the consistency of the overall data structure for the report.

2 Overview

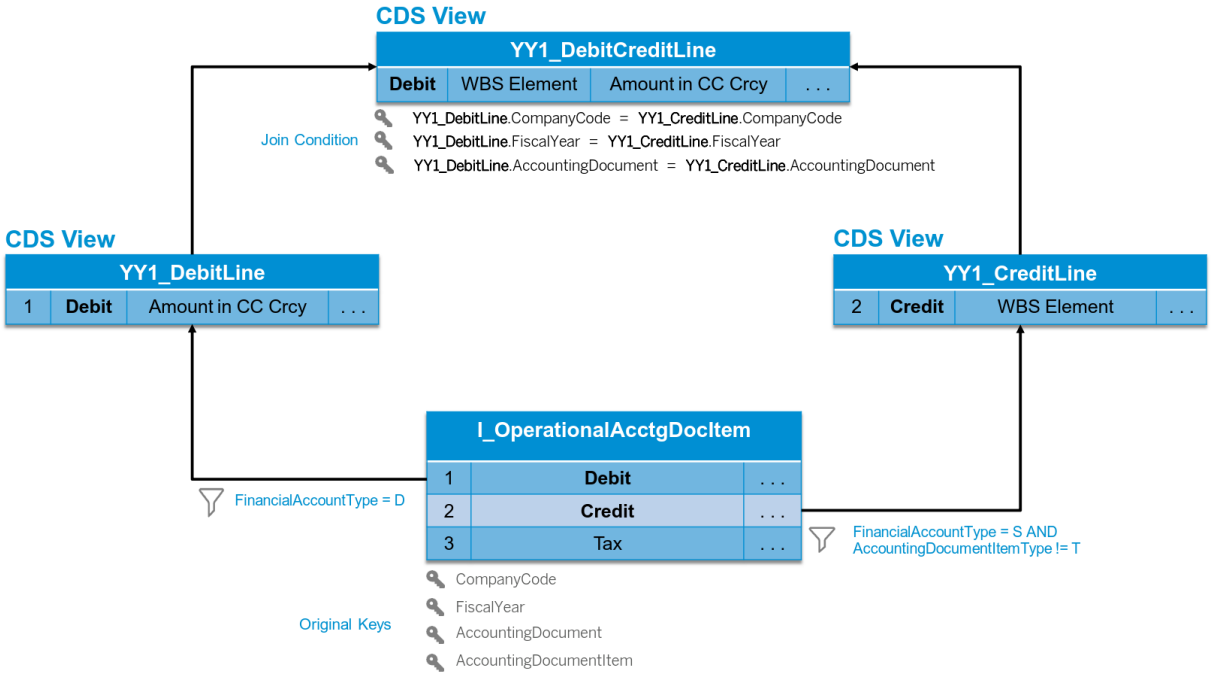
2.1 Business Scenario

This scenario explains how to create a custom report on the SAP S/4HANA Cloud account retrievable line items, which refers to the projects within its work packages. The standard SAP S/4HANA account retrievable line items can only relate to the customers by default.

The table below shows an extract of the ACDOCA table. A debit line (line *1* in the table) is assigned to the customer, and a credit line (line *2* with line *3*, which shows the tax) refers to the project (WBS Element, or PSP Element).

Line	Accounting Area	Accounting Document	Booking Line	Project Definition	PSP Element	Account Type	Customer	Transaction	Document Type	Debit/ Credit Indicator	Amount in Accounting Area
1	1010	9400000000	000001			D	10100001		RV	S	1.484,80
2	1010	9400000000	000002	YUT1	YUT1.0.1	S	10100001		RV	H	-1.280,00
3	1010	9400000000	000003			S		MWS	RV	H	-204,80

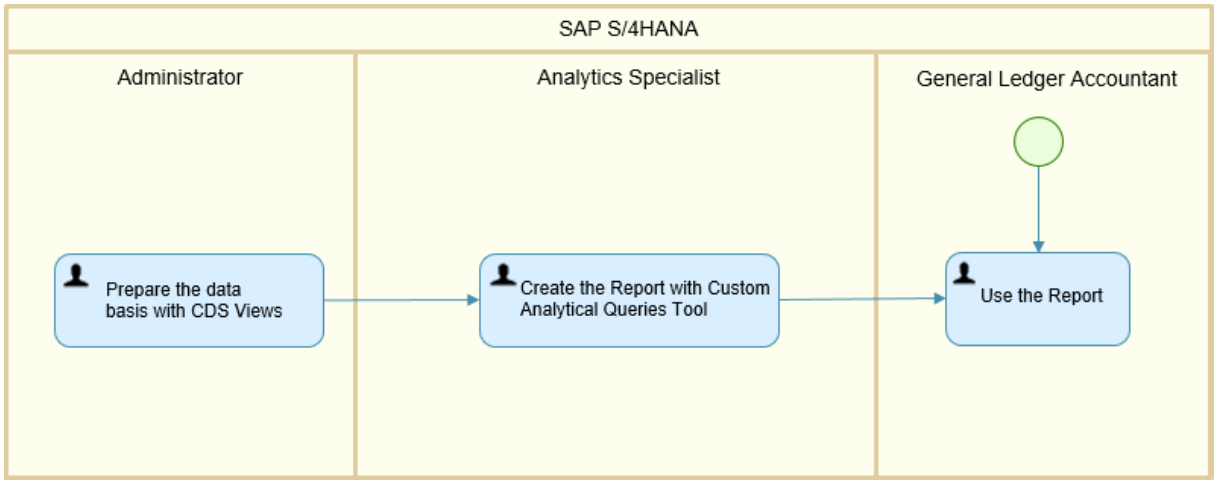
With the aid of in-app extension features, the information given in the debit and the credit lines can be combined to create the required references. The graphic below outlines the fundamental idea of this scenario.



The standard CDS View `I_OperationalAcctgDocItem` serves as a data source for the credit and debit lines. Both lines are specified by filters. As a next step, both lines are combined together in another CDS View. Initially, the data source `I_OperationalAcctgDocItem` has four key fields. For the CDS View to be used as a join condition, only three of these are used so that it is possible to create a link between the values for the receivable and the project information. If all four keys were used as a join condition, the outcome would have the same data structure as the initial source `I_OperationalAcctgDocItem`.

The result of this scenario is a report which enables the general ledger accountant to interactively explore the data. The report also provides standard charts, which can be applied to the data in the report. The accountant can then find the data for insights and take further action if required.

2.1.1 Scenario Process Flow

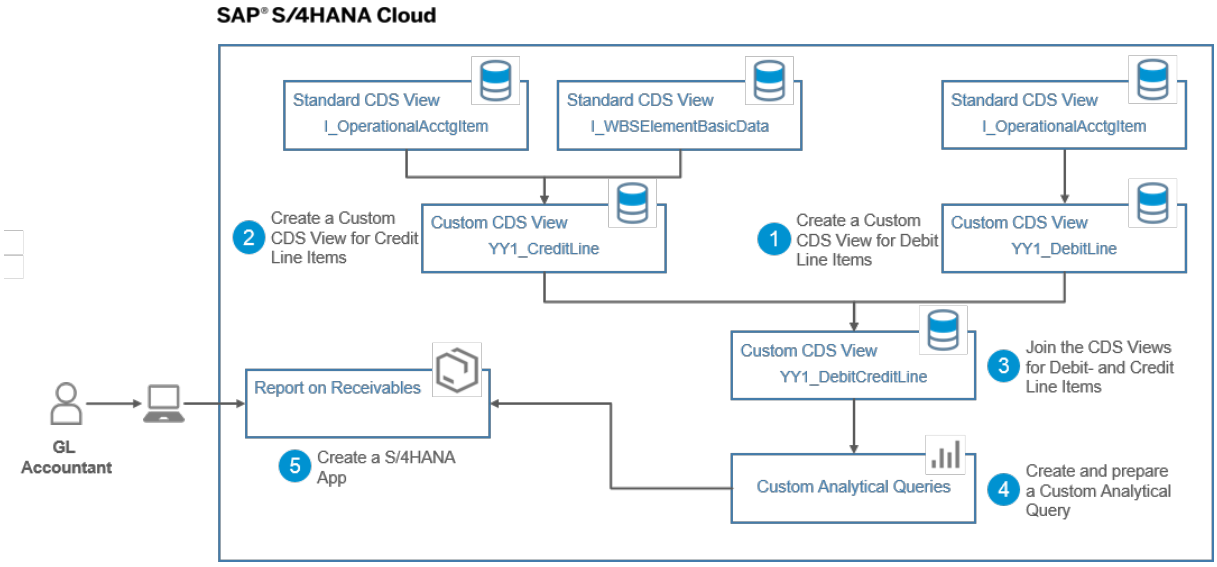


The following table provides you with a brief overview on the process flow in this scenario:

	Step	Details
1	Create and provide the data basis	The business user administrator builds the required CDS Views, which are the basis for the later report.
2	Build the report	The analytical specialist uses the data source provided by the custom CDS View and creates a report with the *Custom Analytical Queries* app. That report is published as a tile on the SAP S/4HANA Cloud system for the GL accountant. The analytical specialist can only build the report, but is not able to access the data.
3	Use the report	A GL accountant is the dedicated business user for the outcome of this scenario.

2.2 Technical Implementation Steps

The following picture depicts the technical implementation steps for the scenario in the context of the system landscape architecture.



The table offers a brief overview of the key steps in this scenario:

	Step	Details
1	Create CDS Views for Debit and Credit Line [page 9]	You're creating a custom CDS View which filters out the data for the debit line item entries. Then, you're creating a second custom CDS View which filters out the data for the credit line item entries and excludes tax items.
2	Join the CDS Views Debit and Credit Line [page 13]	Both previous CDS Views are joined in a new CDS View. For the join condition, only three of the four keys are used to enable mapping to the WBS Element. This CDS View provides the data basis for the report.
3	Create a Custom Analytical Query [page 17]	The report is built on top of the CDS View from the previous step. It provides basic analytical features to explore the data provided by the CDS View.
4	Create an Application and Assign it to a Business Catalog [page 19]	To help use the report with ease, an app has been created out of the report. This appears as a tile on the SAP S/4HANA launchpad for the business user role of the GL accountant .

3 Preparation

To perform the steps in this document, please ensure that the following prerequisites have been met:

Prerequisites	Details
SAP S/4HANA Cloud system	You have access to an SAP S/4HANA Cloud system with all the necessary users and authorizations (refer to the *Personas/Users and Authorizations* item below).
Personas/Users and Authorizations	The following personas are involved in this sample scenario. However, depending on your use case, there could be differences. In general, you need a user who has administration rights, a user with the role of an analytics specialist, and a user with the role of a general ledger accountant. You can create a new custom business role in the SAP S/4 HANA Cloud if necessary. Use the *Maintain Business Roles* app. Add the business catalogs on the *Assigned Business Catalogs* tab. • **SAP S/4HANA administrator**: This user has the administration authorizations in the SAP S/4HANA Cloud system that are required, for example, to create CDS Views, or to assign business roles to users. Make sure that the user has a role that has the following business catalog assigned: `SAP_CORE_BC_COM`. • **SAP S/4HANA analytics specialist**: The business user with the role of the analytics specialist is expected to implement the custom report. Make sure that the analytics specialist role is based on the `SAP_BR_ANALYTICS_SPECIALIST` template. • **SAP S/4HANA general ledger accountant**: The business user with the role of general ledger accountant is expected to display the report that is the result of this scenario. Make sure that the general ledger accountant role is based on the `SAP_BR_GL_ACCOUNTANT` template. To create the test data for the test in this document, the following listed personas are required. • **SAP S/4HANA project manager:** This business user is tasked with creating and managing projects. Ensure that your project manager user is based on the `SAP_BR_PROJ_MANAGE_COMM` template. • **SAP S/4HANA resource**: A resource user is an employee or workforce, who is able to book and maintain work times for a project. This role requires the `SAP_BR_EMPLOYEE` template. • **SAP S/4HANA billing clerk**: A billing clerk is required to create an invoice for a project. Make sure that users with this role are based on the `SAP_BR_BILLING_CLERK` template.
Business Data in SAP S/4HANA Cloud System	**Appropriate business data must be available** in the SAP S/4HANA Cloud system so that you can follow the examples.

4 Set Up the Report on General Ledger Account Line Items

4.1 Implementation Steps in the SAP S/4HANA Cloud System

This scenario leverages in-app extensibility features to extend a given SAP S/4HANA Cloud standard for account retrievables.

4.1.1 Create CDS Views for Debit and Credit Line

First, you need to create two CDS Views. One CDS View represents the debit line, and the other represents the credit line.

> **i** Note
>
> Information about Custom CDS Views.

Prerequisites

The administrator business user needs to create the CDS Views for the debit and credit line.

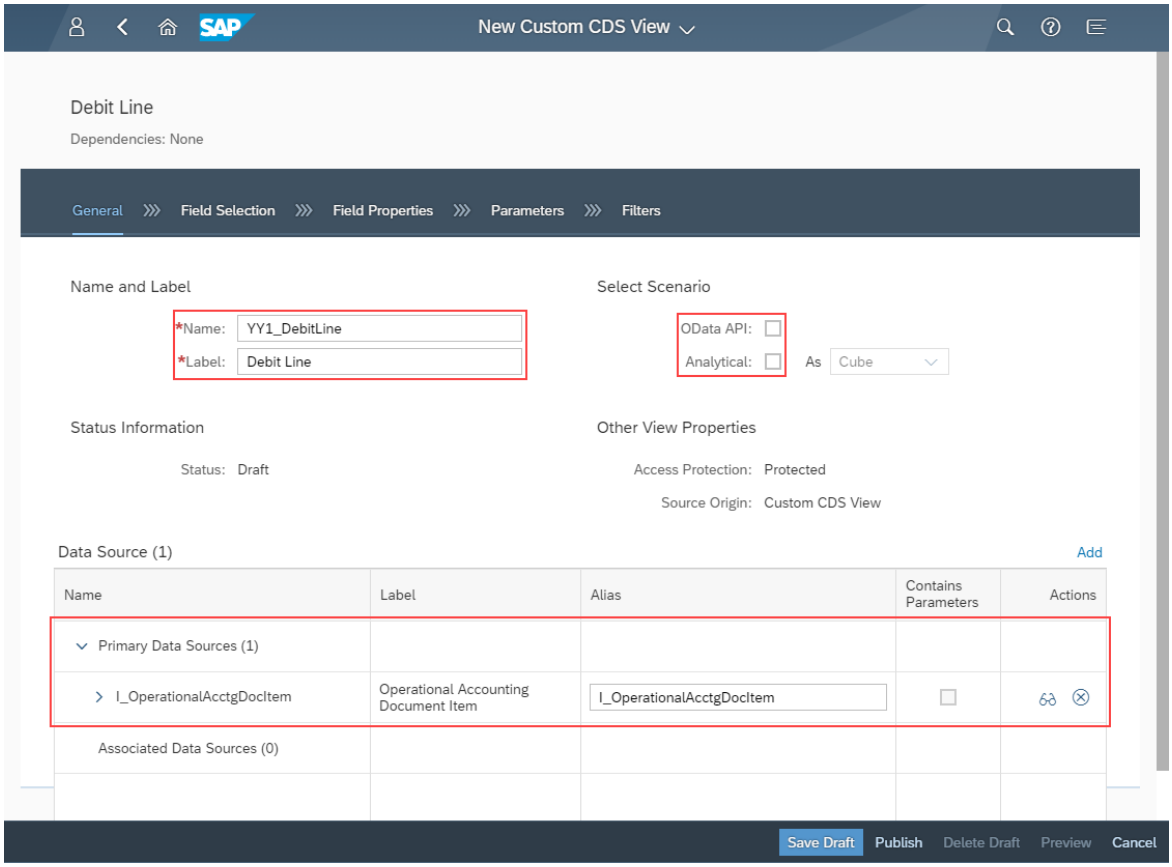
> **i** Note
>
> For more information on turning business role templates into roles and assigning them to users, see Identity and Access Management.

Procedure

1. Navigate to the SAP Fiori launchpad.
2. Choose the *Custom CDS Views* app.
3. On the *Custom CDS Views* screen, choose *Create*.
4. Enter the following information in the *New Custom CDS View* screen.

Field	Content
Name	**YY1_DebitLine**
Label	**Debit Line**

5. On the same screen, make sure that the checkboxes for *External API* and *Analytical* are unchecked.
6. For the *Data Source*, choose *Add* and then choose *Add Primary Data Source*.
7. On the *Add Data Source* screen that appears, search for and select the standard CDS View `I_OperationalAcctgDocItem`. After selecting the entry, choose *Add* on the right of the screen. The *Debit Line CDS View* screen should resemble the following screenshot.



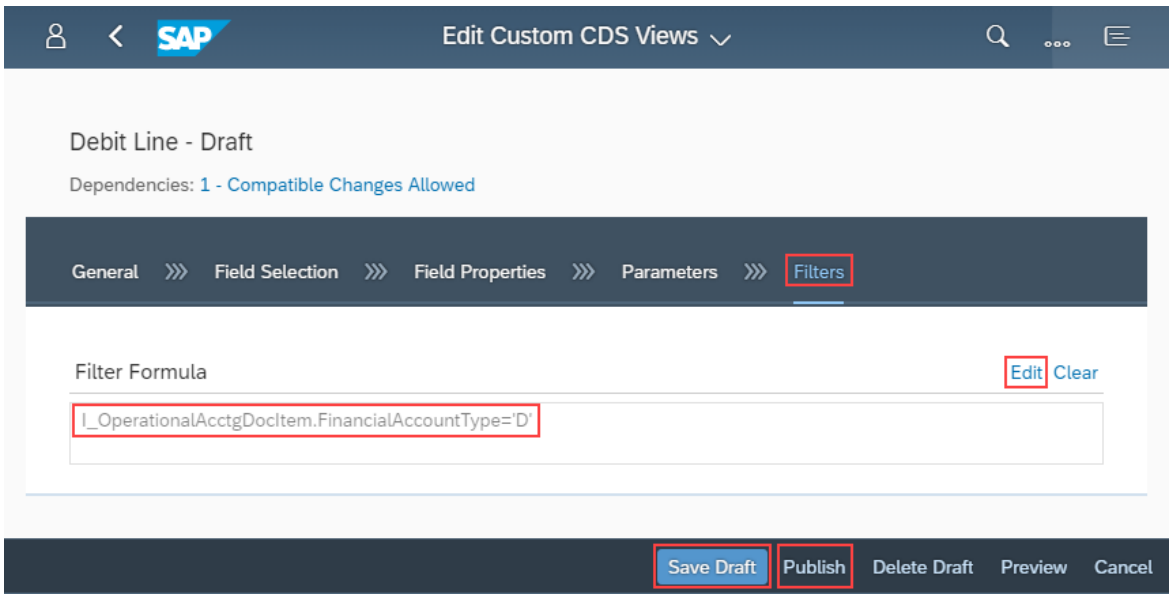
8. Choose the *Field Selection* tab.
9. From the left of the *Available Fields and Associations* table, on the *Field Selections* tab, select the fields shown below. In order to select a field, check the *Select* checkbox. Some fields are already selected by default and serve as key elements.
   Select the following fields, shown in the table below. Adjust the *Label* if required.

Name	Label	Field Type
I_OperationalAcctgDocItem.FinancialAccountType	Account Type	Field
I_OperationalAcctgDocItem.Customer	Customer	Field

Name	Label	Field Type
I_OperationalAcctgDocItem.GLAccount	G/L Account	Field
I_OperationalAcctgDocItem.PostingDate	Posting Date	Field
I_OperationalAcctgDocItem.DebitCreditCode	Debit/Credit Code	Field
I_OperationalAcctgDocItem.BaseUnit	Base Unit of Measure	Field
I_OperationalAcctgDocItem.AmountInCompanyCodeCurrency	Amount in CC Crcy	Field
I_OperationalAcctgDocItem.CompanyCodeCurrency	Company Code Crcy	Field
I_OperationalAcctgDocItem.NetDueDate	Net Due Date	Field
I_OperationalAcctgDocItem.AccountingDocumentType	Journal Entry Type	Field

10. Choose the *Filters* tab. Choose *Edit* in the *Filter Formula* field and enter the formula: `I_OperationalAcctgDocItem.FinancialAccountType='D'` in the window that opens. Choose *Apply* to close the window.

> **i Note**
>
> Filtering for `D` results in this CDS View showing only data for Debit Line Items.



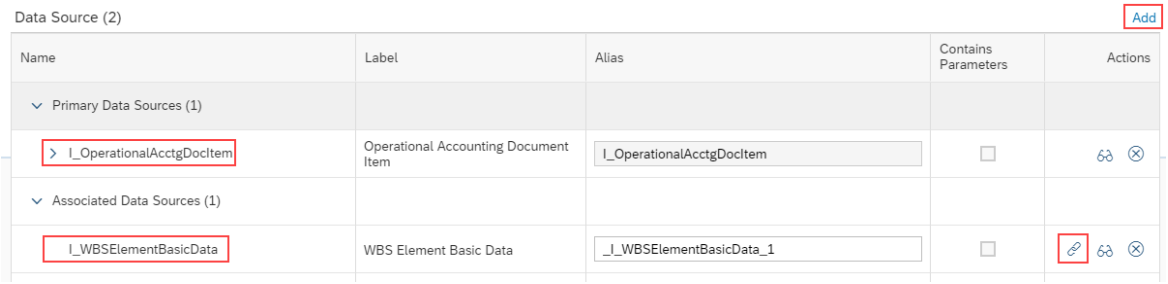
11. Choose *Save Draft* and *Publish*.

12. Once all these steps have been performed, the same procedure (steps 1 to 12) has to be followed for the *Credit Line*, with some exceptions in the content. Use the following entries:
When a new CDS View is created, use the following *Name* and *Label*:

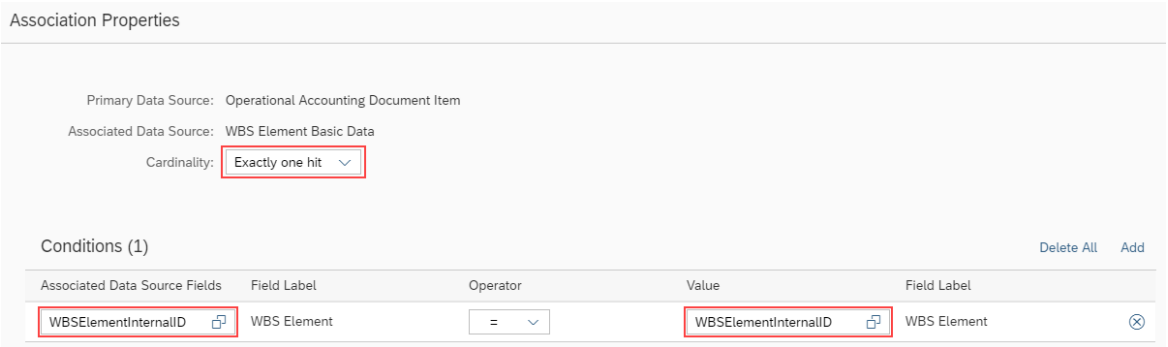
Field	Content
Name	`YY1_CreditLine`
Label	`Credit Line`

13. With *Add*, choose *I_OperationalAcctgDocItem* as the *Primary Data Source* and *I_WBSElementBasicData* as the *Associated Data Source*.

> **i Note**
>
> With the inclusion of the associated *I_WBSElementBasicData* data source and the *WBSDescription* field, we have the situation which is mentioned in the disclaimer of this document. This can be seen as an example of how you might handle such a case. However, including additional fields or data sources is different in each case and needs to be checked individually. Here, the solution is to filter out the values from the included *WBSDescription* field which is causing that unwanted change in the cardinality.



14. Choose the *Edit Association Properties* icon and link the key to the associated data source and adjust the new screen as in the following screenshot.



15. In addition to the preselected key fields, please include the following fields in the *Fields Section* tab.

Name	Label	Field Type
I_OperationalAcctgDocItem.WBSElementInternalID	WBS ID	Field
_I_WBSElementBasicData_1._Project._WBSElement.WBSDescription	WBS Work Packages	Field
_I_WBSElementBasicData_1._Project.ProjectDescription	Project Description	Field
_I_WBSElementBasicData_1._Project._WBSElement.WBSElementIsBillingElement	Billing Element	Field

> **i** Note
>
> As previously mentioned, the *WBS Work Packages* field changes the cardinality of the overall sample. This field includes values which summarize all the work packages, which corrupts the result of the report. A further field, *Billing Element*, marks these summarized values. Later, when the Credit and Debit Lines are joined, this information will be applied to the filters.

16. For the Credit Line CDS view, apply the following filter in the *Filters* tab to specify that view as a Credit Line:
`I_OperationalAcctgDocItem.FinancialAccountType='S' AND I_OperationalAcctgDocItem. AccountingDocumentItemType!='T'` .

4.1.2 Join the CDS Views Debit and Credit Line

Once you have created CDS Views for the Debit and Credit Lines, both views are joined together in another CDS View . That new CDS View will serve as a basis for the report.

Prerequisites

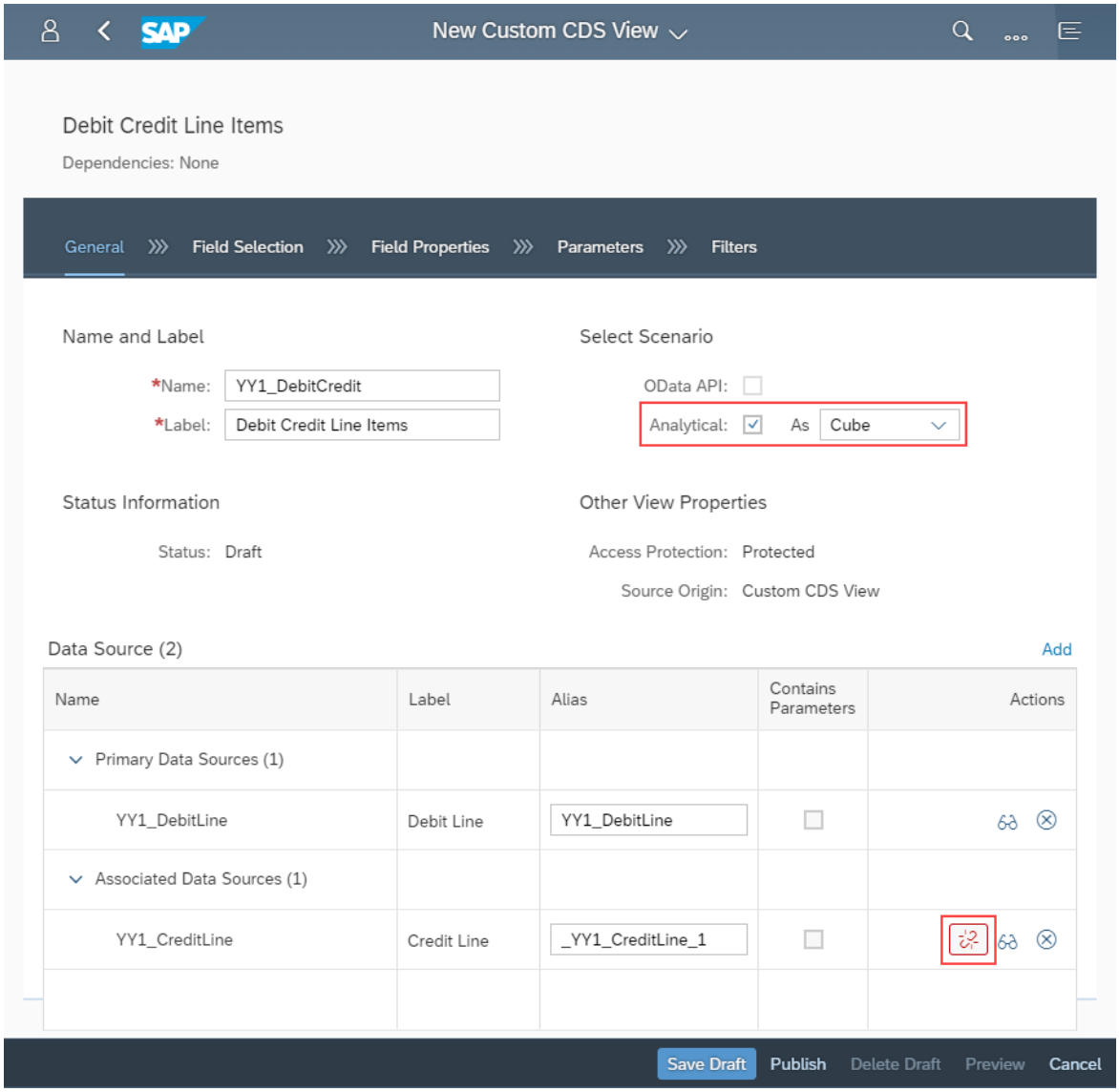
The administrator business user needs to join the CDS Views.

Procedure

1. Navigate to the SAP Fiori launchpad.
2. Choose the *Custom CDS View* app.
3. On the *Custom CDS Views* screen, choose *Create*.
4. Enter the following information on the *New Custom CDS View* screen.

Field	Content
Name	`YY1_DebitCredit`
Label	`Debit Credit Line Items`

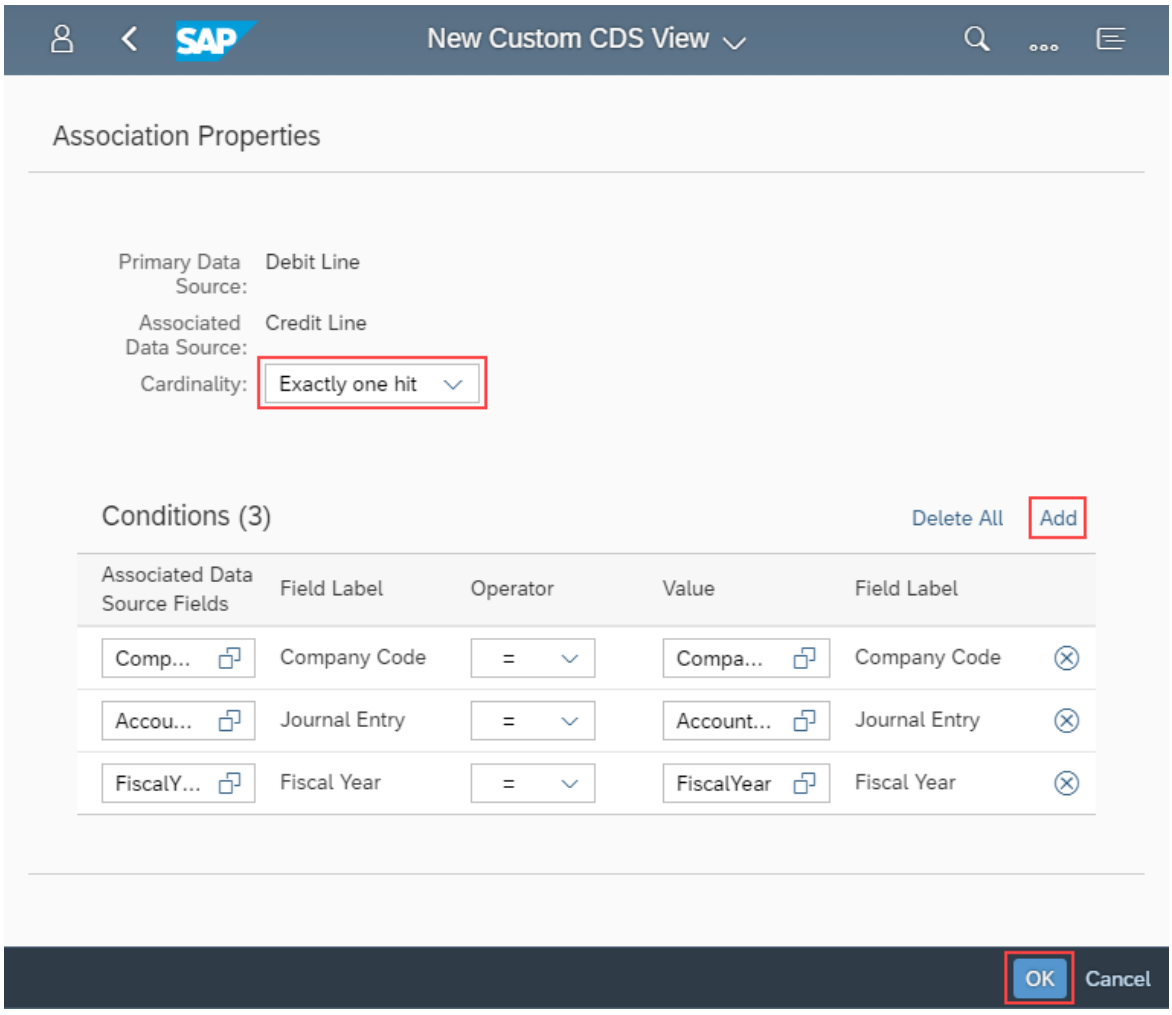
5. On the same screen, make sure that the checkbox for *OData API* is unchecked, check the *Analytical* box, and select *Cube* in the *As* field.
6. Under *Data Source*, choose *Add*, then *Add Primary Data Source*. Search, select, and add the previously created CDS View *YY1_DebitLine*.
7. On the *New Custom CDS View* screen, choose *Add* for the *Data Source*, then choose *Add Associated Date Source*. Search, select, and add the CDS View *YY1_CreditLine*. A warning is displayed, which asks if an access-protected data source should be added. Choose *Yes* to proceed.



8. Choose the *Edit Associated Properties* icon in the table for the *Associated Data Source* line to join them.

9. On the new screen, choose *Exactly one hit* under *Cardinality*. Edit the *Conditions* table, as stated below. Choose *OK* once the key fields of both data sources have been assoicated.

Associated Data Source Fields	Operator	Value
CompanyCode	=	CompanyCode
AccountingDocument	=	AccountingDocument
FiscalYear	=	FiscalYear

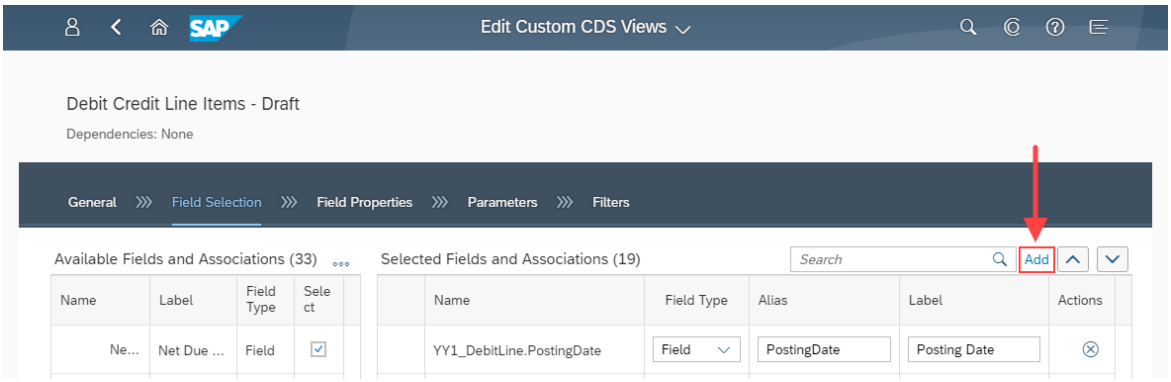


10. Choose the *Fields Selection* tab and select all fields as stated below – in addition to the preselected key fields. In addition, adjust the labels accordingly.

Name	Label	Field Type
YY1_DebitLine.Customer	Customer	Field

Name	Label	Field Type
YY1_DebitLine.GLAccount	G/L Account	Field
YY1_DebitLine.PostingDate	Posting Date	Field
YY1_DebitLine.DebitCreditCode	Debit/Credit Code	Field
YY1_DebitLine.BaseUnit	Base Unit of Measure	Field
YY1_DebitLine.AmountInCompanyCodeCurrency	Amount in CC Crcy	Field
YY1_DebitLine.CompanyCodeCurrency	Company Code Crcy	Field
YY1_DebitLine.NetDueDate	Net Due Date	Field
YY1_DebitLine.AccountingDocumentType	Journal Entry Type	Field
_YY1_CreditLine_1	Credit Line	Association
_YY1_CreditLine_1.WBSElementInternalID	WBS Element	Field
_YY1_CreditLine_1.ProjectDescription	Project Description	Field
_YY1_CreditLine_1.WBSDescription	WBS Work Packages	Field
_YY1_CreditLine_1.WBSElementIsBillingElement	Billing Element	Field

11. Once the fields have been selected, choose *Add* at the top of the *Selected Fields and Associations* table for a calculated field. The calculated field determines the due date of a receivable.



12. Enter the following content in the *Edit Calculated Field* pop-up screen.

Field Label	`Days till Due Date`
Field Name	`DaysToDueDate`

13. Insert the following function in the field below *Field Label* and *Field Name*:

```
cast( DATS_DAYS_BETWEEN(YY1_DebitLine.NetDueDate , cast($session.system_date as
ABAP.DATS)) as ABAP.SSTRING( 15 ))
```

> **Note**
>
> Read the description on how to work with calculated fields.

14. Choose *Apply* to confirm and quit the *Edit Calculated Field*.
15. Choose the *Filters* tab, then choose *Edit* and enter the following statement:
    `_YY1_CreditLine_1.WBSElementIsBillingElement!='X'` AND
    `_YY1_CreditLine_1.WBSDescription!='Project Summary Task'`

> **Note**
>
> As mentioned previously, fields from the `I_WBSElementBasicData` data source modify the cardinality of the result. The filters correct that behavior.

16. To confirm, choose *Apply*.
17. In the *Edit Custom CDS View* screen, choose *Save Draft* and then *Publish*.

4.1.3 Create a Custom Analytical Query

As the next step, you need to create a custom analytical query. Custom Analytical Queries is a tool used for reporting and analysis.

> **Note**
>
> More information about the custom analytic queries can be found here.

Prerequisites

The analytical specialist business user needs to create the analytical query based on the CDS View for the debit/credit line.

Procedure

1. Navigate to the SAP Fiori launchpad.
2. Choose the *Custom Analytical Queries* app from the *Query Design* group.
3. On the *Custom Analytical Queries* screen, choose *New*.
4. Fill in the content for the *New Query*, as shown in the table.

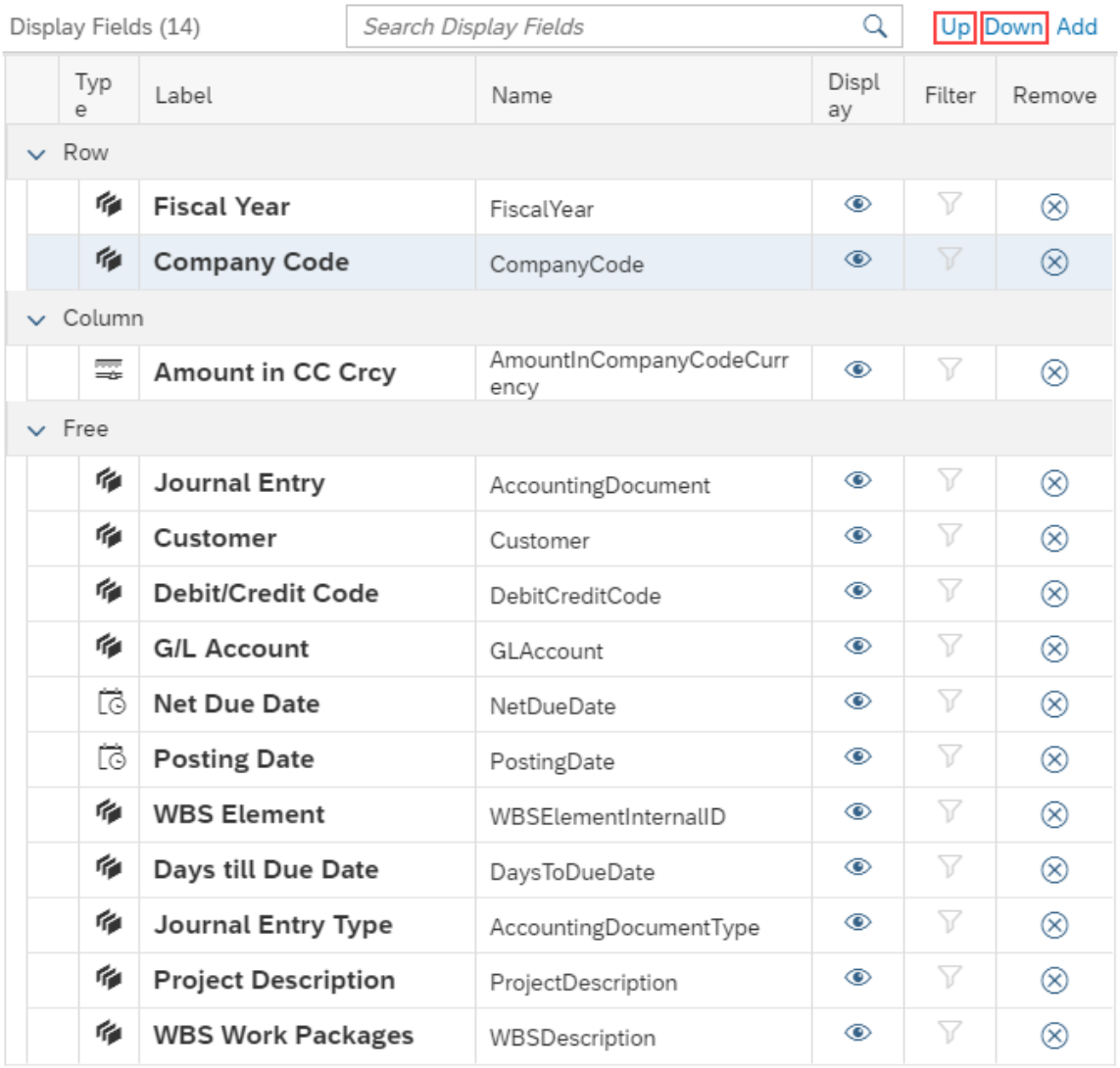
Field	Content
Query Name	`YY1_DebitCreditQuery`

Field	Content
Data Source	`YY1_DEBITCREDIT`

5. Choose *OK*.
6. On the next screen, enter the *Label* the content `Debit Credit Query`. Choose the *Field Selection* tab.
7. Select all fields by choosing the *Selection* checkbox on the *Available Fields* table. The following fields should be selected.

Label	Name
Fiscal Year	FiscalYear
Company Code	CompanyCode
Amount in CC Crcy	AmountInCompanyCodeCurrency
Journal Entry	AccountingDocument
Customer	Customer
Debit/Credit Code	DebitCreditCode
G/L Account	GLAccount
Net Due Date	NetDueDate
Posting Date	PostingDate
WBS Element	WBSElementInternalID
Days till Due Date	DaysToDueDate
Journal Entry Type	AccountingDocumentType
Project Description	ProjectDescription
WBS Work Packages	WBSDescription

8. Choose the *Display* tab.
9. In the *Display* tab, you can arrange the dimensions in the cube. To do so, select a field, and the field is moved using the *Up* and *Down* buttons. Make sure that *Fiscal Year* and *Company Code* are under *Row*, while the *Amount in CC Crcy* field is assigned under *Column*. All the other fields should be assigned under *Free*.



10. Choose *Save Draft*, and then *Publish*.

4.1.4 Create an Application and Assign it to a Business Catalog

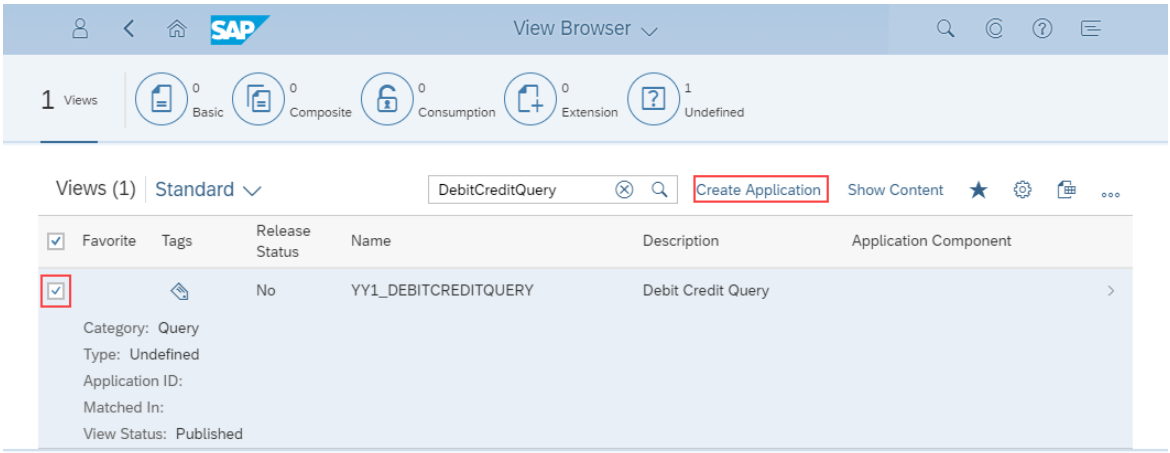
As a final implementation step, you need to create an SAP S/4HANA Cloud application from the previous report. The business user with the role of the General Ledger Accountant is the target user of the reporting application.

Prerequisites

The analytics specialist business user needs to create the SAP S/4HANA Cloud application based on the analytical query.

Procedure

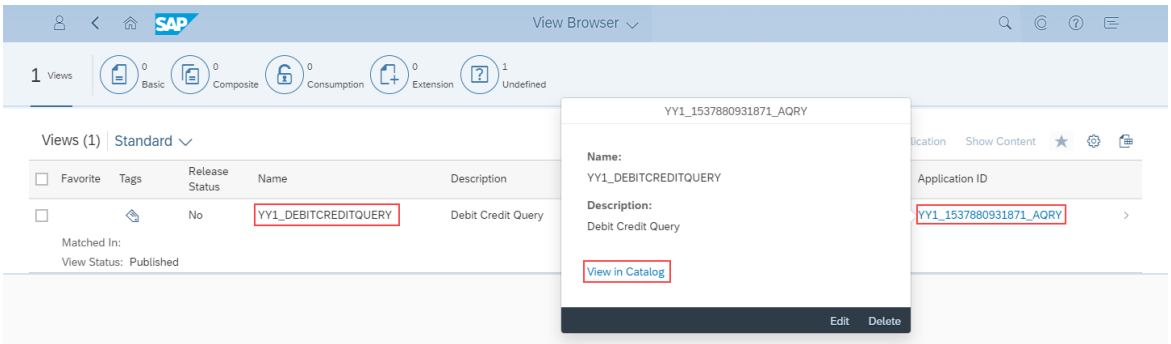
1. Navigate to the SAP Fiori launchpad.
2. Choose the *View Browser* app.
3. Search for the previously created query *YY1_DEBITCREDITQUERY*, select the checkbox and choose *Create Application*. Choose *Multi-Dimensional Report*.



4. In the *Maintain Languages* dialog box, enter the following content:

Field	Content
Title	`Report on Receivables`
Label	`Account Receivable by WBS`

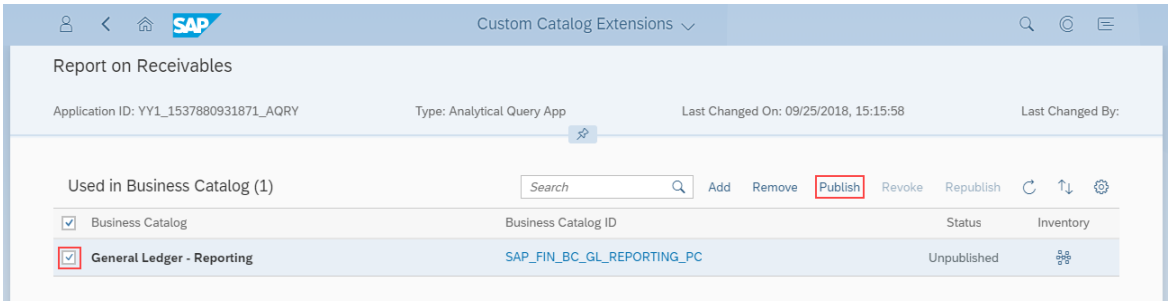
5. Choose *OK*.
6. For the query *YY1_DEBITCREDITQUERY*, an entry appears in the *Application ID*. Choose that ID. A new window will appear. Choose *View in Catalog*.



7. On the new *Custom Catalog Extension* screen , choose *Add*.
8. On the *Add Business Catalog* pop-up screen, select the entry *General Ledger - Reporting* with the *Catalog Role ID* `SAP_FIN_GL_REPORTING_PC`. Select the checkbox for that entry and choose *OK*.

> **i Note**
>
> The Business Catalog needs to have all required permissions to read the data for the report. The predelivery role mentioned, *SAP_FIN_GL_REPORTING_PC*, matches the requirements for this case.

9. The new business catalog entry will be listed. Select the checkbox for the entry and choose *Publish*.



5 Testing the Extension Scenario

After completion of the set up, the scenario can be tested. This section shows you how to perform a simple test.

In the first step, data is generated by creating of a sample project followed by an invoice. In the second step, you are going to use the report and search for the receivable for the invoice related to the projects. Next, the test will show how to apply a filter and a bar chart in the report. The test includes the following steps:

- Create test data with an invoice for a project
- Use the report to browse for specific information
- Apply a filter and a standard chart on the report

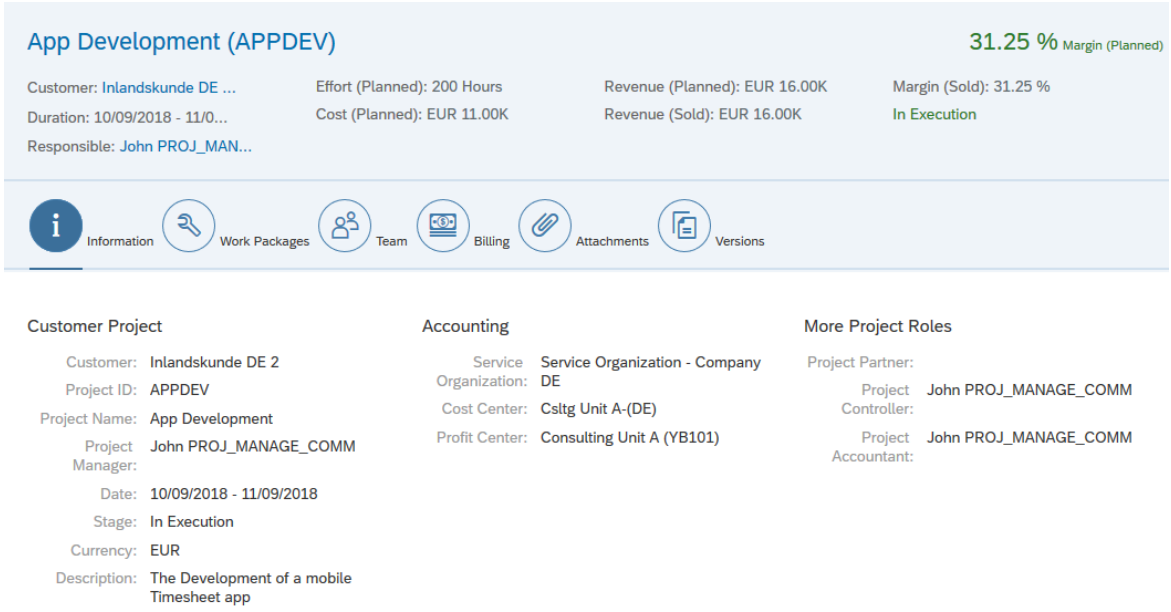
> **i Note**
>
> The screenshots and descriptions of the following example contain and refer to existing sample receivable data. This may vary from your data. Your SAP S/4HANA Cloud users might also vary from those used in this example.

> **i Note**
>
> The report provides several standardized possibilities to explore the data. For instance, aggregating and drilling-down of the data or applying various charts to the report. Please note that some combinations may not work.

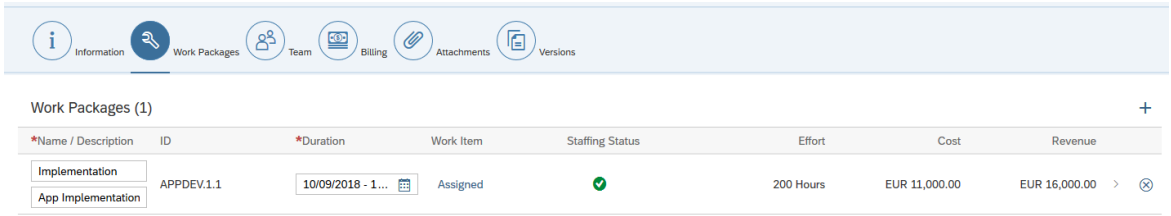
5.1 Create Test Data for a Receivable

This section explains the steps and parameters to create a receivable in your SAP S/4HANA Cloud system. For more details on how to create a new project, refer to the test script of scope item Custom Project Management - Project Based Services (J11).

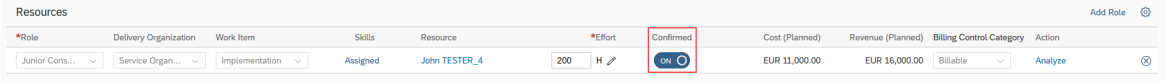
1. Ensure you are logged on as a project manager business user to perform the following steps. Create a project with the following parameters as shown in the image below.



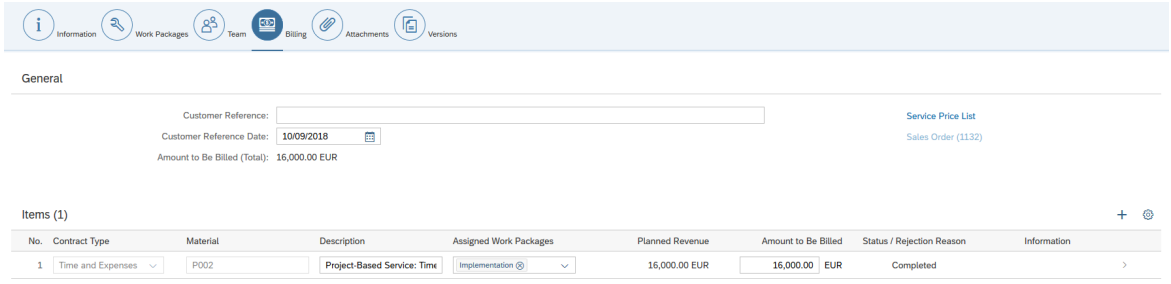
2. Add a work package to your project with the values from the image below.



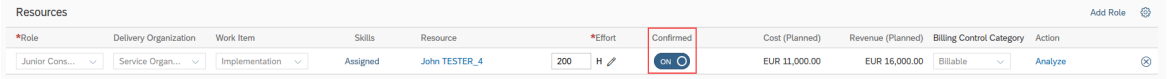
3. Assign a user as *Junior Consultant* for a resource or workforce, using the values from the next image. Select *Billable* under *Billing Control Category*.



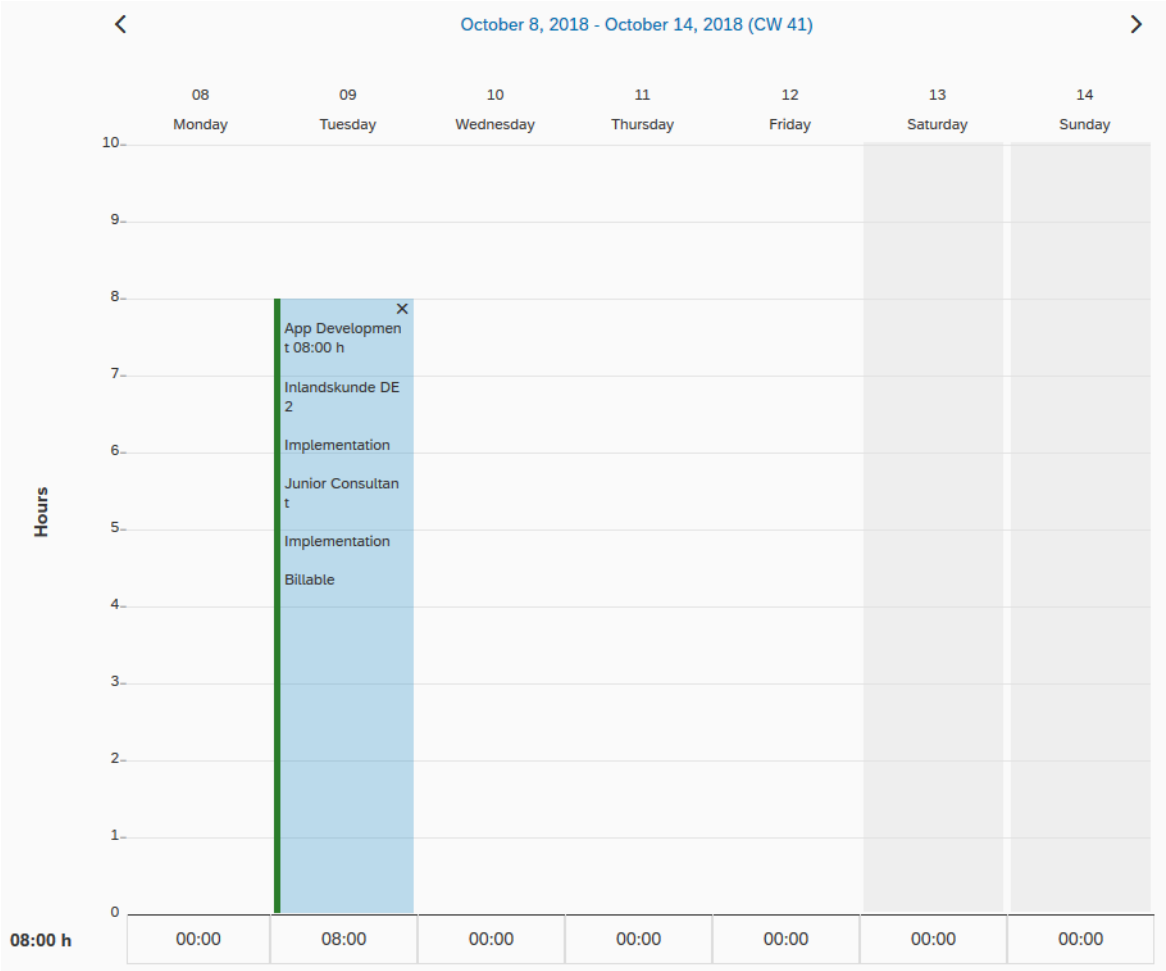
To add billing information, the project should be in the contract preparation stage. Refer to the values from the following screenshot to provide a billing proposal. Make sure that the *Contract Type* is set to *Time and Expenses*. A popup will appear showing the *SD Document* number. Note this number down, since you will need it later to create an invoice.



4. Make sure that the project stage is set to *In Execution*. On the *Work Packages* tab, make sure that the flag for *Confirmed* is set to *ON*. The default costs for a Junior Consultant are, in this example, 80.00 EUR/hour.

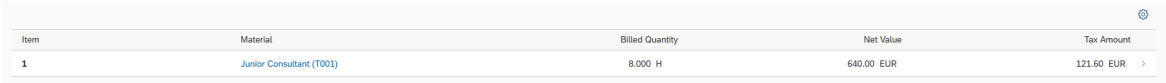


5. Change to your resource user and log in with that user to your SAP S/4HANA System. Use the *Manage My Timesheet* app to book 8 hours.



Also make sure that the booked time is approved, to be able to create an invoice. Depending on your system setup, it might require another business user to perform that approval step.

6. After the time recording has been approved, the item will be added in the billing proposal. Launch, as project manager, the *Release Billing Proposal* app, select the billing proposal which relates to the created customer project, choose *Edit* and release. A dialog box appears and confirms that a debit memo request (DMR) has been created with an ID, choose *OK* to close the window.
7. In this step, log on with your billing clerk business user and create an invoice with the *Create Billing Documents* app. Search for the *SD Document* number which was provided by the billing proposal. Choose *Create* once you have selected the correct *SD Document* number. Choose as *Billing Type* the entry *Invoice (CI01)* and enter a date for *Billing Date*.



8. Check the invoice to ensure that the journal entry has been created. If not, launch the *Manage Billing* app with the billing clerk and search for the invoice number which was created in the last step. Select *Post Billing Documents*.
   The total amount to be billed is 761,60 EUR. Check the values and choose *Save* in the *Billing Document* screen.

5.2 Use the Report

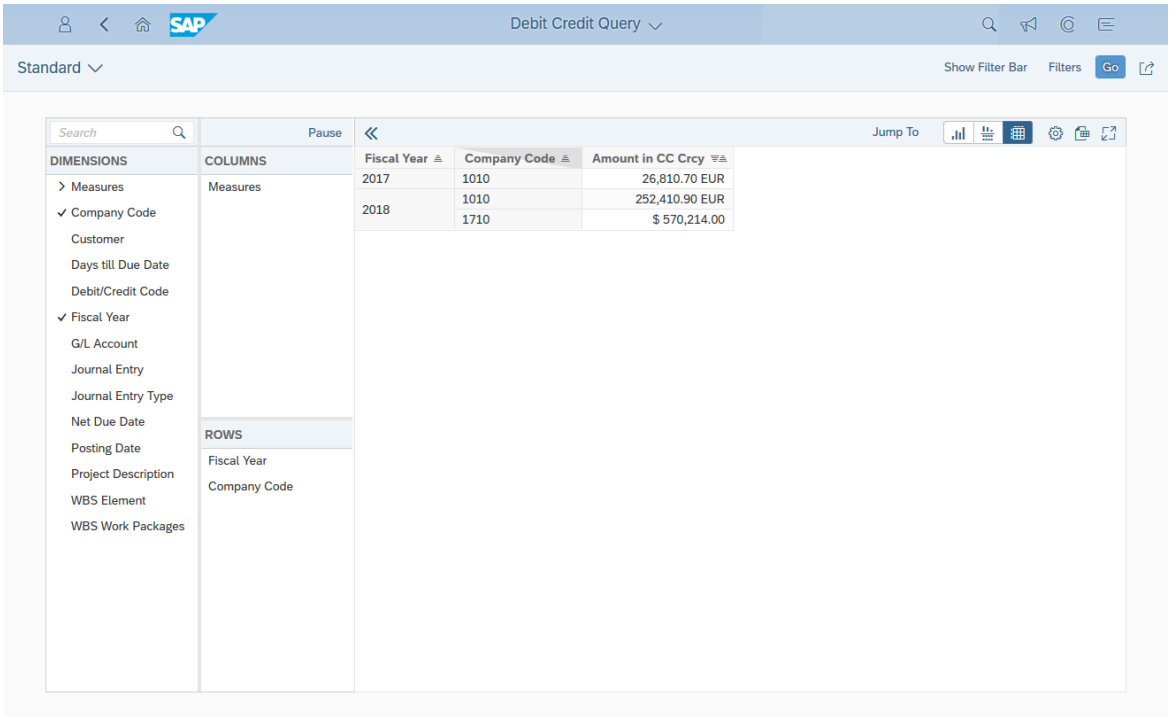
This section demonstrates how to use the report from this scenario. The steps will explain how to find and analyze the previously created test data.

Prerequisites

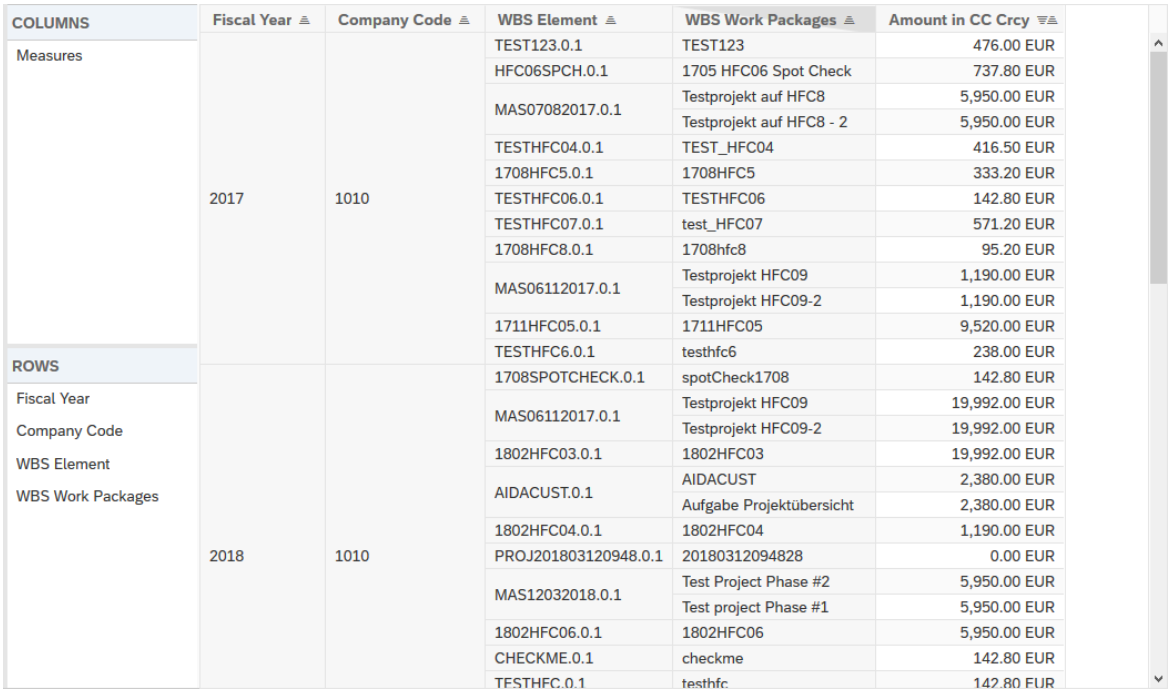
To access the created SAP S/4HANA Cloud application from this document, use the business user general ledger accountant with the role template `SAP_BR_GL_ACCOUNTANT`. The business catalog `SAP_FIN_BC_GL_REPORTING_PC` has to be assigned to this role.

Procedure

1. Navigate to the SAP Fiori launchpad.
2. Choose the previously created *Report on Receivables* app.
3. The report opens and you will already see some preselected data. The *Measures* values show the receivables in an aggregated state, assigned to *Fiscal Year* and *Company Code*.

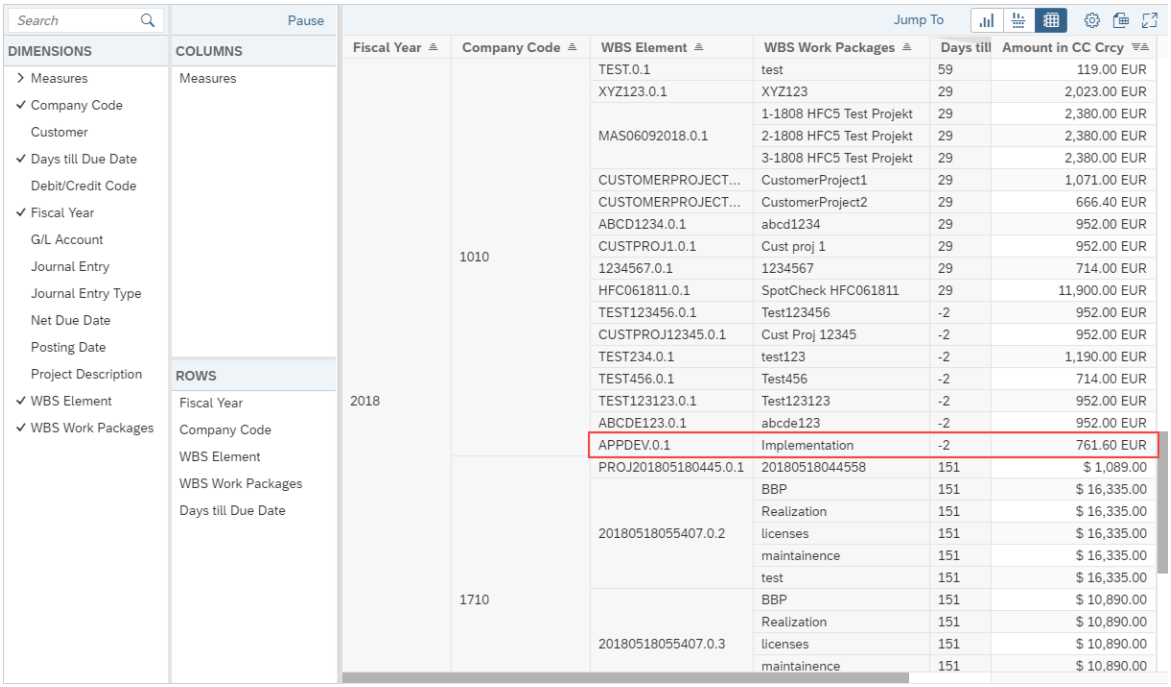


4. To drill down your data, drag and drop the fields from the *DIMENSIONS* section to the *ROWS* section. First drag and drop the *WBS Element* field. That will drill down your data a step deeper and you can already see the receivables assigned to the projects. Going a step further, also drag and drop *WBS Work Packages* field to the *ROWS* section. That will map all the open receivables down to the work packages, grouped by the projects.



COLUMNS	Fiscal Year	Company Code	WBS Element	WBS Work Packages	Amount in CC Crcy
Measures	2017	1010	TEST123.0.1	TEST123	476.00 EUR
			HFC06SPCH.0.1	1705 HFC06 Spot Check	737.80 EUR
			MAS07082017.0.1	Testprojekt auf HFC8	5,950.00 EUR
				Testprojekt auf HFC8 - 2	5,950.00 EUR
			TESTHFC04.0.1	TEST_HFC04	416.50 EUR
			1708HFC5.0.1	1708HFC5	333.20 EUR
			TESTHFC06.0.1	TESTHFC06	142.80 EUR
			TESTHFC07.0.1	test_HFC07	571.20 EUR
			1708HFC8.0.1	1708hfc8	95.20 EUR
			MAS06112017.0.1	Testprojekt HFC09	1,190.00 EUR
				Testprojekt HFC09-2	1,190.00 EUR
			1711HFC05.0.1	1711HFC05	9,520.00 EUR
			TESTHFC6.0.1	testhfc6	238.00 EUR
ROWS	2018	1010	1708SPOTCHECK.0.1	spotCheck1708	142.80 EUR
Fiscal Year			MAS06112017.0.1	Testprojekt HFC09	19,992.00 EUR
Company Code				Testprojekt HFC09-2	19,992.00 EUR
WBS Element			1802HFC03.0.1	1802HFC03	19,992.00 EUR
WBS Work Packages			AIDACUST.0.1	AIDACUST	2,380.00 EUR
				Aufgabe Projektübersicht	2,380.00 EUR
			1802HFC04.0.1	1802HFC04	1,190.00 EUR
			PROJ201803120948.0.1	20180312094828	0.00 EUR
			MAS12032018.0.1	Test Project Phase #2	5,950.00 EUR
				Test project Phase #1	5,950.00 EUR
			1802HFC06.0.1	1802HFC06	5,950.00 EUR
			CHECKME.0.1	checkme	142.80 EUR
			TESTHFC.0.1	testhfc	142.80 EUR

5. Next, scroll down and search for the previously created project *APPDEV*. Drag and drop the *Days till Due Date* field to the *ROWS* section.



DIMENSIONS	COLUMNS	Fiscal Year	Company Code	WBS Element	WBS Work Packages	Days till	Amount in CC Crcy
> Measures	Measures	2018	1010	TEST.0.1	test	59	119.00 EUR
✓ Company Code				XYZ123.0.1	XYZ123	29	2,023.00 EUR
Customer				MAS06092018.0.1	1-1808 HFC5 Test Projekt	29	2,380.00 EUR
✓ Days till Due Date					2-1808 HFC5 Test Projekt	29	2,380.00 EUR
Debit/Credit Code					3-1808 HFC5 Test Projekt	29	2,380.00 EUR
✓ Fiscal Year				CUSTOMERPROJECT...	CustomerProject1	29	1,071.00 EUR
G/L Account				CUSTOMERPROJECT...	CustomerProject2	29	666.40 EUR
Journal Entry				ABCD1234.0.1	abcd1234	29	952.00 EUR
Journal Entry Type				CUSTPROJ1.0.1	Cust proj 1	29	952.00 EUR
Net Due Date				1234567.0.1	1234567	29	714.00 EUR
Posting Date				HFC061811.0.1	SpotCheck HFC061811	29	11,900.00 EUR
Project Description				TEST123456.0.1	Test123456	-2	952.00 EUR
✓ WBS Element				CUSTPROJ12345.0.1	Cust Proj 12345	-2	952.00 EUR
✓ WBS Work Packages				TEST234.0.1	test123	-2	1,190.00 EUR
				TEST456.0.1	Test456	-2	714.00 EUR
				TEST123123.0.1	Test123123	-2	952.00 EUR
				ABCDE123.0.1	abcde123	-2	952.00 EUR
				APPDEV.0.1	Implementation	-2	761.60 EUR
			1710	PROJ201805180445.0.1	20180518044558	151	$ 1,089.00
				20180518055407.0.2	BBP	151	$ 16,335.00
					Realization	151	$ 16,335.00
					licenses	151	$ 16,335.00
					maintainence	151	$ 16,335.00
					test	151	$ 16,335.00
				20180518055407.0.3	BBP	151	$ 10,890.00
					Realization	151	$ 10,890.00
					licenses	151	$ 10,890.00
					maintainence	151	$ 10,890.00

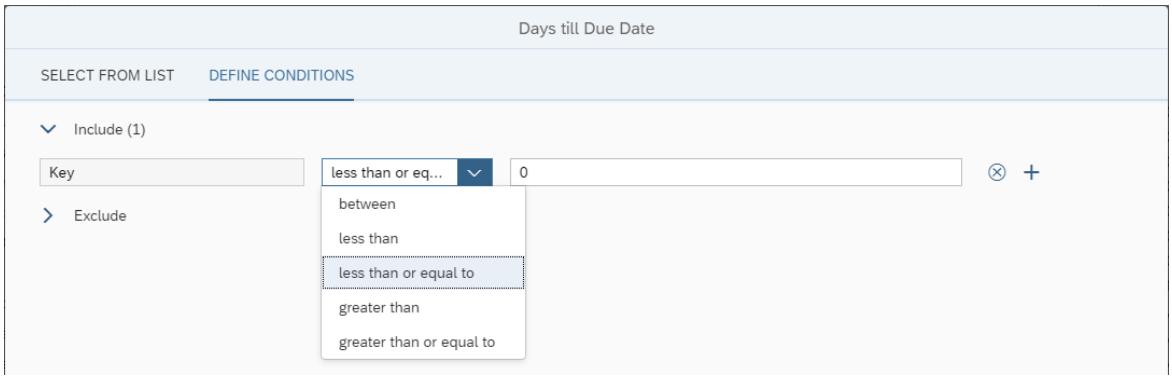
ROWS: Fiscal Year, Company Code, WBS Element, WBS Work Packages, Days till Due Date

You will find the previously created project with its correct receivable listed. You can also see that this receivable has its due date in two days.

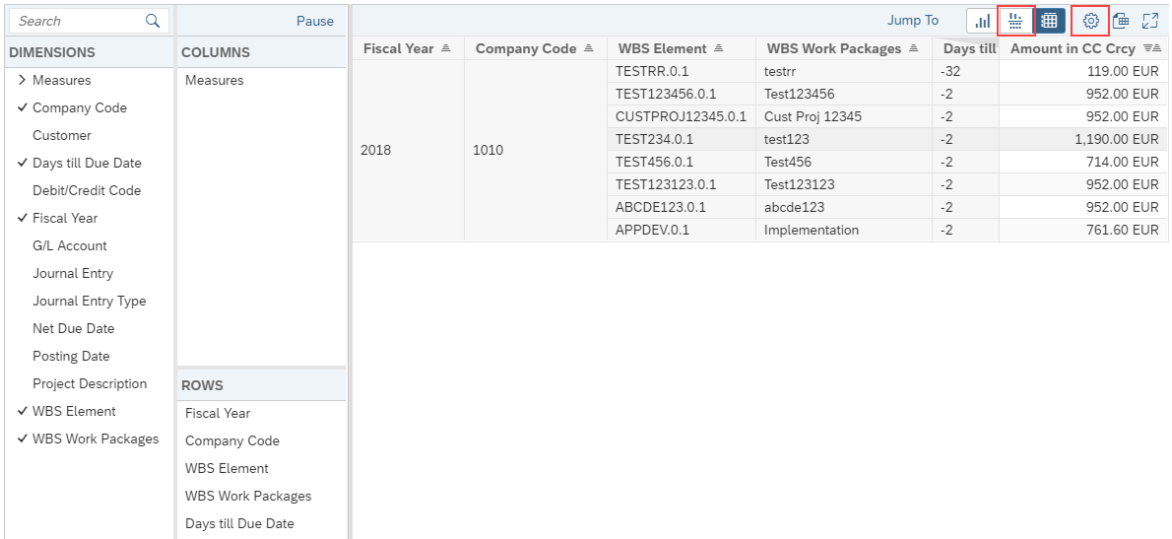
5.3 Apply Filters and Visualize the Data with Standard Charts

To navigate through your data and search purposefully for certain insights, the filter feature and the standard charts are useful tools. The following instructions show to use these tools.

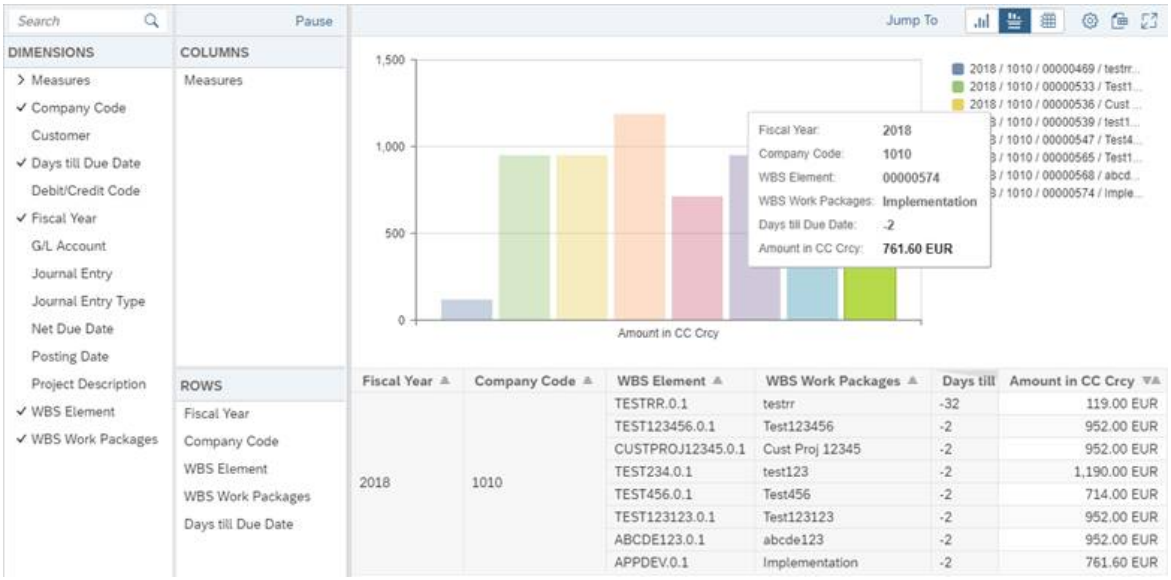
1. Choose *Filter* and search for the *Days till Due Date* field. Choose the *DEFINE CONDITIONS* tab and scroll to set to *less than or equal to*. Enter the value **0**. Choose *OK* to quit. To apply the filter condition, choose *Go*.



2. You will now see filtered data. All upcoming receivables will be shown in the report.



3. Choose the *Chart and Table* icon to visualize the data in a diagram. You can adjust the type of the chart and some further parameters under *Settings*.



In this case, the filter has reduced the amount of data to just the relevant ones, the receivables whose *Days till Due Date* are in the future. The bar chart gives additional visual information. For example, when there are extreme outliers, you can detect them at a glance.

6 Appendix

6.1 Issues

Please note that SAP does not offer any official support for the sample code (see the *SAP SAMPLE CODE LICENSE AGREEMENT* on GitHub). However, feel free to use the *Issues* section on GitHub if you have any problems. We recommend that you browse through the known issues section before creating a new issue.

6.2 Document History

Revision	Date	Change
1.0	2018-12-19	Document created.
1.1	2018-01-18	Minor language related changes.
1.2	2019-09-13	Issues [page 29] section updated.

Important Disclaimers and Legal Information

Hyperlinks

Some links are classified by an icon and/or a mouseover text. These links provide additional information.
About the icons:

- Links with the icon : You are entering a Web site that is not hosted by SAP. By using such links, you agree (unless expressly stated otherwise in your agreements with SAP) to this:
  - The content of the linked-to site is not SAP documentation. You may not infer any product claims against SAP based on this information.
  - SAP does not agree or disagree with the content on the linked-to site, nor does SAP warrant the availability and correctness. SAP shall not be liable for any damages caused by the use of such content unless damages have been caused by SAP's gross negligence or willful misconduct.
- Links with the icon : You are leaving the documentation for that particular SAP product or service and are entering a SAP-hosted Web site. By using such links, you agree that (unless expressly stated otherwise in your agreements with SAP) you may not infer any product claims against SAP based on this information.

Videos Hosted on External Platforms

Some videos may point to third-party video hosting platforms. SAP cannot guarantee the future availability of videos stored on these platforms. Furthermore, any advertisements or other content hosted on these platforms (for example, suggested videos or by navigating to other videos hosted on the same site), are not within the control or responsibility of SAP.

Beta and Other Experimental Features

Experimental features are not part of the officially delivered scope that SAP guarantees for future releases. This means that experimental features may be changed by SAP at any time for any reason without notice. Experimental features are not for productive use. You may not demonstrate, test, examine, evaluate or otherwise use the experimental features in a live operating environment or with data that has not been sufficiently backed up.
The purpose of experimental features is to get feedback early on, allowing customers and partners to influence the future product accordingly. By providing your feedback (e.g. in the SAP Community), you accept that intellectual property rights of the contributions or derivative works shall remain the exclusive property of SAP.

Example Code

Any software coding and/or code snippets are examples. They are not for productive use. The example code is only intended to better explain and visualize the syntax and phrasing rules. SAP does not warrant the correctness and completeness of the example code. SAP shall not be liable for errors or damages caused by the use of example code unless damages have been caused by SAP's gross negligence or willful misconduct.

Gender-Related Language

We try not to use gender-specific word forms and formulations. As appropriate for context and readability, SAP may use masculine word forms to refer to all genders.

www.sap.com/contactsap

THE BEST RUN SAP