

SCM. Work Orders. Query using DFF.

Comparison OIC-VB/Fusion-VB with this basic page:

- 1) Extension App UI from VB embedded in Fusion (the free one).
- 2) OIC Visual Builder (pay per messages packs).

Introduction/Goal

Users cannot filter using Descriptive fields on the Work Orders Redwood page and neither in the Classic-ADF.

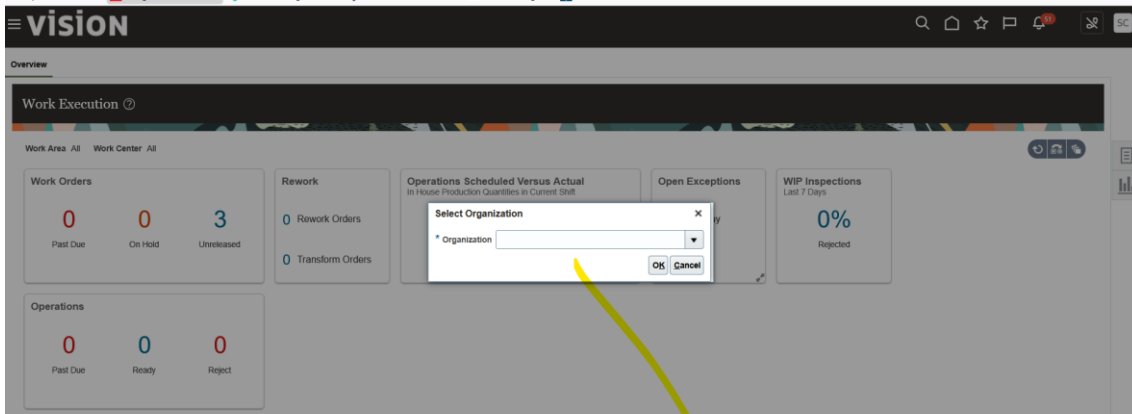
The current filters in the Redwood page are available.

The screenshot shows the 'vision' Work Orders interface. The main table lists work orders with columns: Work Order, E, Priority, Item, Quantity, UOM, Expedited, Status, Start Date, and Completion Date. The 'Filters' sidebar on the right is open, showing a list of filterable fields: Start Date, Completion Date, Status, Actual Completion Date, Back-to-Back, Batch Quantity, Canceled Date, Canceled Reason, Closed Date, and Completed Quantity. At the bottom of the sidebar are 'Cancel' and 'See Results' buttons.

This screenshot shows the same 'vision' Work Orders interface, but the 'Filters' sidebar on the right displays a different set of filterable fields: Subtype, Task Number, Type, UOM, Version, Work Center, Work Definition Date, Work Definition, Work Method, Work Order Number, and Work Order Quantity. The 'Cancel' and 'See Results' buttons are also present at the bottom of the sidebar.

SCM Tip.

To select the current context Organization.
In "Manufacturing work orders" selection.



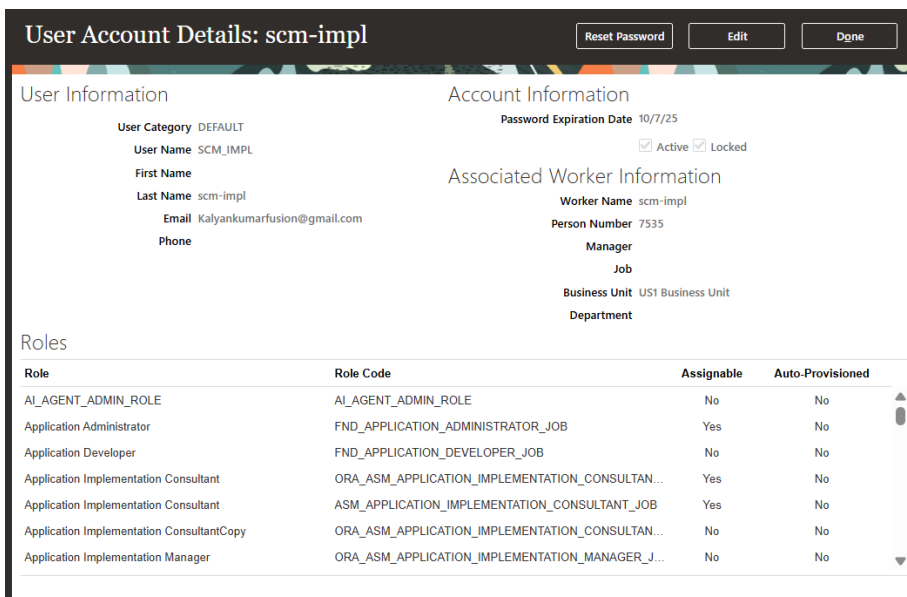
We Will build a page to get the user requirements using the 2 approaches: OIC-VB and Fusion VB-Extension.

Some of the following sections are common for both approaches.

Preparatory steps

1) Roles.

Your user would need the functional roles to access the data of Work Orders (SCM) and the following roles to work with Visual Builder in Fusion.



2) Investigate REST API's needed.

<https://www.linkedin.com/pulse/implementing-oracle-fusion-manufacturing-using-rest-apis-dendukuri-1lhwf/>

https://docs.oracle.com/en/cloud/saas/supply-chain-and-manufacturing/24b/fasrp/Roles_and_Privileges.html

We base our development on a REST API feature that some developers do not know, which is the ability to filter using child nodes.

Example:

The screenshot shows a REST client interface with a GET request to `https://eqjz.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders?q=WorkOrderDFF.demoRedwood='DEMO1'`. The response is a 200 OK status with a JSON body. The JSON body contains an array of items, with the first item having the following fields: `OrganizationId` (300000047274447), `OrganizationCode` (002), `OrganizationName` (Atlanta), `WorkOrderId` (1040), and `WorkOrderNumber` (WO-002-1004).

Key	Value	Description
REST-Framework-Version	4	

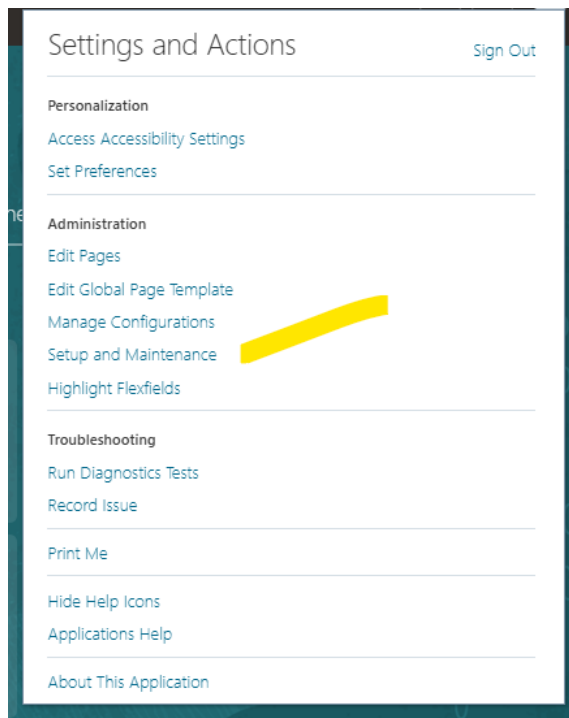
```
1 {
2   "items": [
3     {
4       "OrganizationId": 300000047274447,
5       "OrganizationCode": "002",
6       "OrganizationName": "Atlanta",
7       "WorkOrderId": 1040,
8       "WorkOrderNumber": "WO-002-1004",
```

<https://xxxx.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders?q=WorkOrderDFF.demoRedwood='DEMO1'>

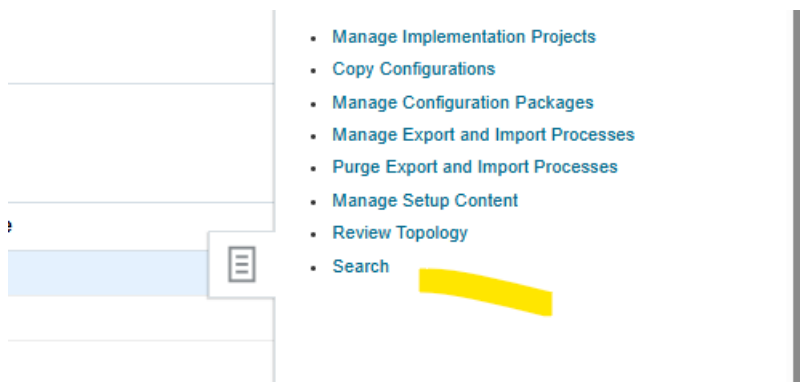
3) Create flexfield.

Search “Manage Work Execution Descriptive Flexfields” as shown.

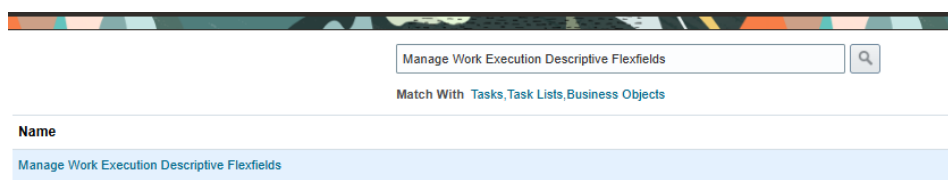
Navigate in SaaS, and select as shown.



Then select “search”.



Type as shown.



Press search button then edit as shown.

Manage Work Execution Descriptive Flexfields ?

Search

Name

Flexfield Code

Module

Search Results

Actions View Format Freeze Detach Wrap Deploy Flexfield

Name	Type	Module	Flexfield Code	Entity Usages	Description	Deployment Status	Deployment Error Message	Deployment Date
Work Order Header	De...	Work Orders	WIE_WORK_ORDERS		Additional Fields for work ...	✓		5/23/18 7:38 PM
Work Order Operation	De...	Work Orders	WIE_WO_OPERATIONS		Additional Fields for work ...	✓		5/23/18 7:38 PM
Work Order Operation Item	De...	Work Orders	WIE_WO_OPERATION_...		Additional Fields for work ...	✓		5/23/18 7:38 PM
Work Order Operation Output	De...	Work Orders	WIE_WO_OPERATION_...		Additional Fields for work ...	✓		12/19/18 2:52 AM
Work Order Operation Resource	De...	Work Orders	WIE_WO_OPERATION_...		Additional Fields for work ...	✓		5/23/18 7:38 PM
Work Order Operation Resource Instance	De...	Work Orders	WIE_WO_OPERATION_...		Additional fields for resou...	✓		9/21/18 8:06 AM
Work Order Operation Transactions	De...	Work Order Operation Tr...	WIE_OPERATION_TRA...		Additional fields for work ...	✓		5/23/18 7:53 PM
Work Order Resource Transactions	De...	Work Order Resource Tra...	WIE_RESOURCE_TRAN...		Additional fields for work ...	✓		5/23/18 7:41 PM

Access the first option, the press Icon shown.

Edit Descriptive Flexfield: Work Order Header ?

Name Work Order Header

Flexfield Code WIE_WORK_ORDERS

Description Additional Fields for work order header on the Edit and View work order page.

Global Segments

Actions View Format + Freeze Detach Wrap

* Sequence	Name	Table Column	Value Set	Prompt
No data to display.				
Columns Hidden 9				

Context Segment

* Prompt Context Segment

API Name

Value Set

Default Type

☐ Required

* Display Type List of Values

Setup flexfield as follows.

Create Segment ?



Flexfield Name Work Order Header

* Name	Demo Redwood
* Code	Demo Redwood
* API Name	demoRedwood

Column Assignment

* Data Type	Character
-------------	-----------

Validation

* Value Set	150Char
Value Set Description	150Char

Initial Default

Default Type	
--------------	--

Display Properties

* Prompt	Demo Redwood	Example format: ##0.###
* Display Type	Text Box	Display width as number of characters for the Segment. Numeric value up to 3 digits.
Display Size	30	
Display Height		
<input type="checkbox"/> Read-only		

Save and close x 2 and, press Deploy button.

Prepare some data.

Above flexfield setup does not always shows immediately, if you get Flexfield shown update some data for some controlle work orders using the pages, if not, this is the trick using REST API to update some data for testing purposes.

POST

https://eqjz.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders/1040/child/WorkOrderDFF

Send

Params

Authorization

Headers (11)

Body

Scripts

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1 {

2 |

3 |

4 }

201 Created

2.33 s

1.95 KB

Body

Cookies (1)

Headers (29)

Test Results

{}

JSON

Preview

Visualize

1 {

2 |

3 |

4 |

5 |

6 }

ORDERK

Aa

ab

*

No results

↑

↓

≡

×

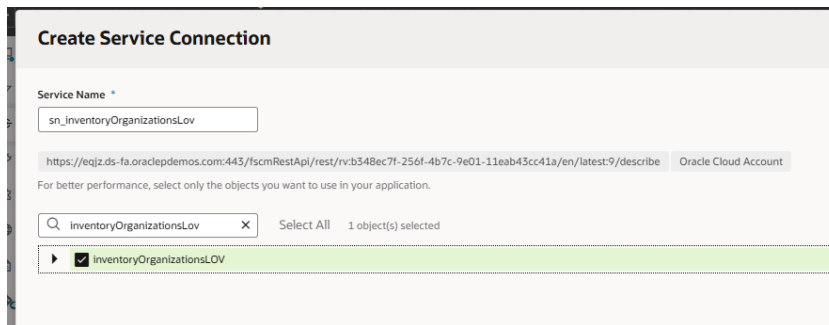
You will need the work order id to do the update shown.

Steps detailed for extension VB.

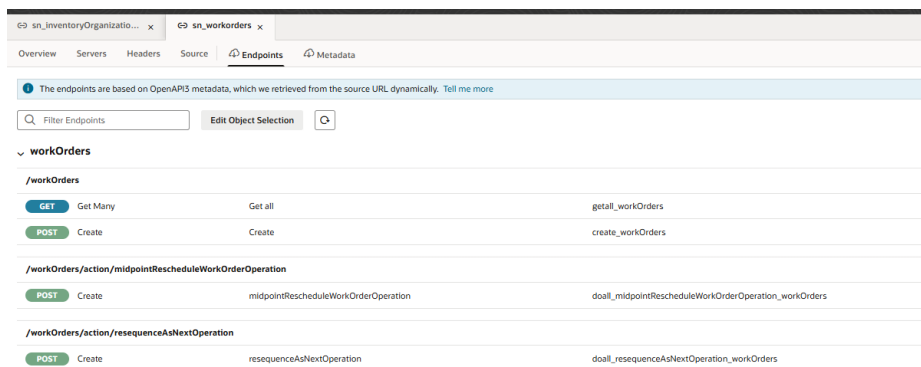
Create the project (please, see blogs or videos to not repeat).

1) Connections.

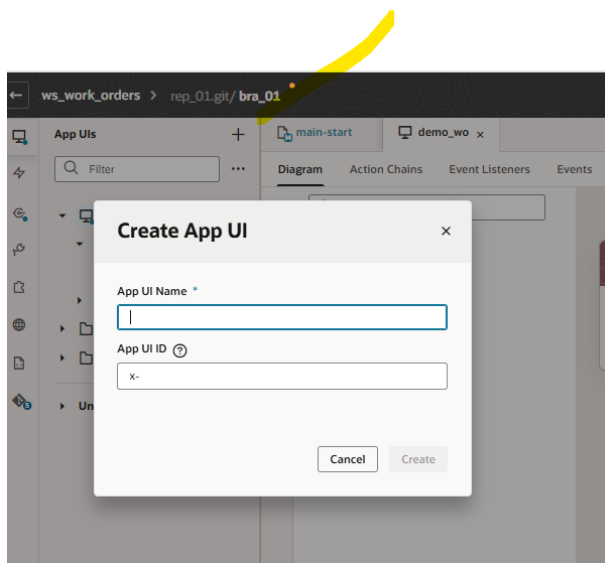
a) First connection for inventory organizations.



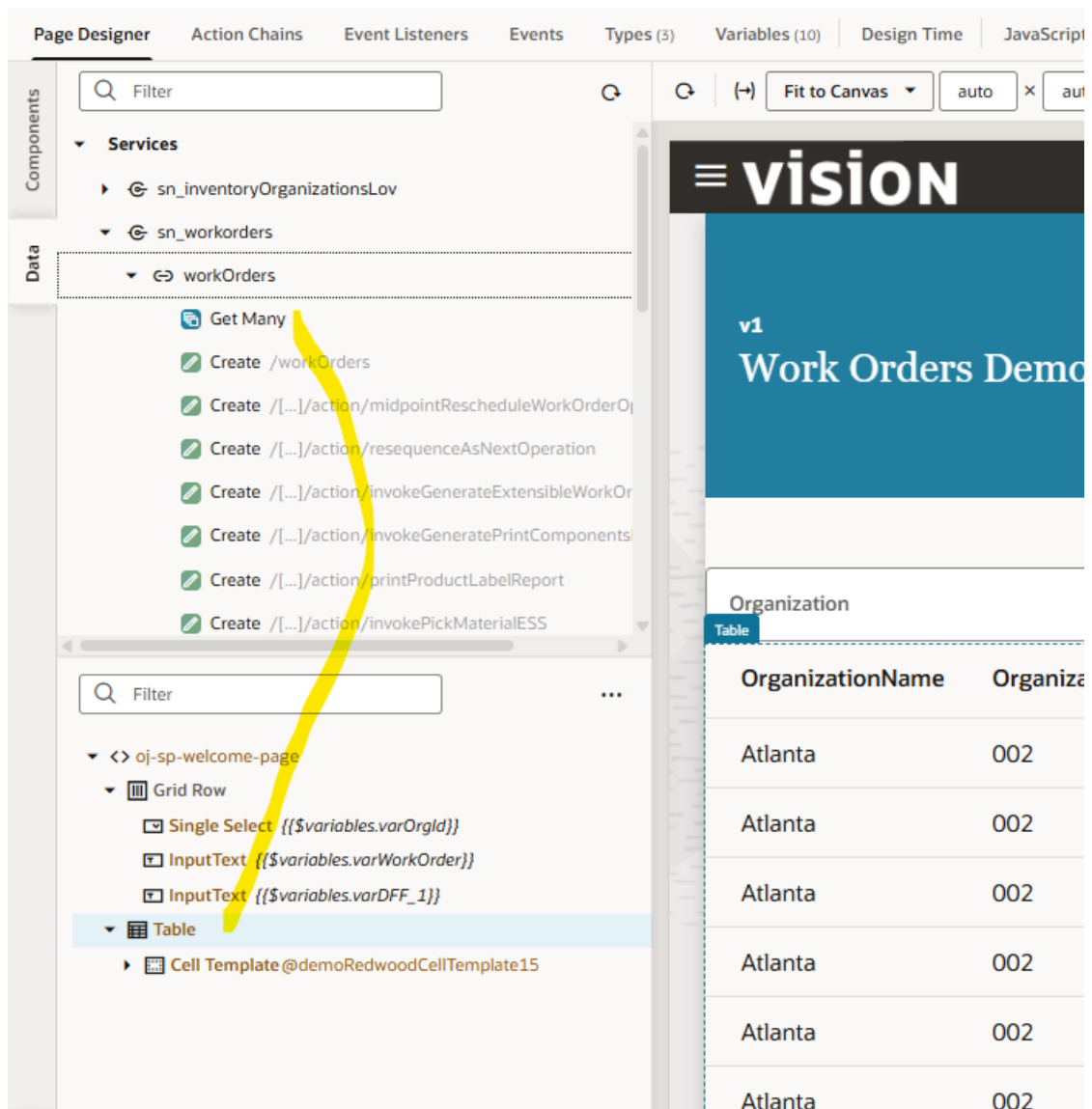
b) Second connection for work orders.



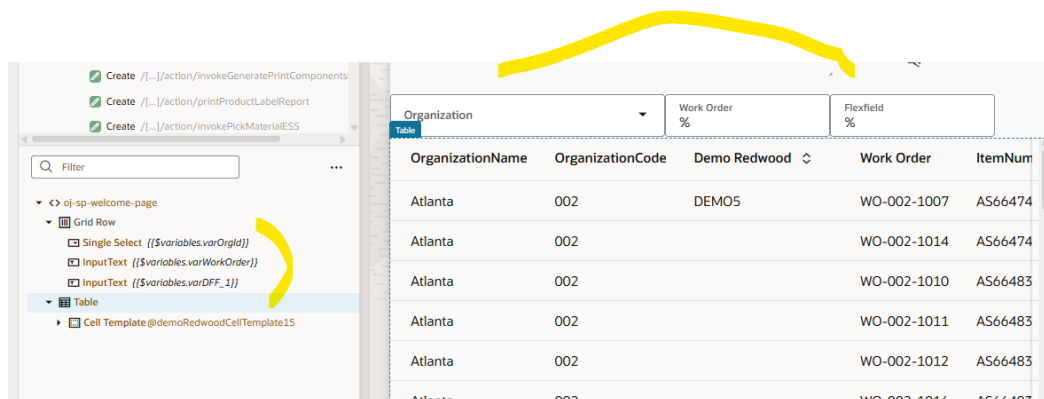
2) New App UI.



a) Select "Welcome template page".



d) Create these VB components to filter.



Detailed code.

```

8 <div class="oj-flex">
9
10 <oj-select-single label-hint="Organization" class="oj-flex-item oj-sm-12 oj-form-control-width-sm oj-md-5"
11 data="[{$variables.inventoryOrganizationsLOVListSDP}]" item-text="OrganizationName"
12 value="{ {$variables.varOrgId }}"></oj-select-single>
13
14 <oj-c-input-text label-hint="Work Order" class="oj-flex-item oj-sm-3 oj-md-3"
15 value="{ {$variables.varWorkOrder }}"></oj-c-input-text>
16
17 <oj-c-input-text label-hint="Flexfield" class="oj-flex-item oj-sm-3 oj-md-3" value="{ {$variables.varDFF_1 }}">
18
19 </oj-c-input-text>
20
21 </div>
22

```

a) Add filters in SDP linked to table as shown.

Map Variables To Parameters

Sources

- Page (main-start) +
 - Variables
 - backgroundColor
 - illustrationBackground
 - illustrationForeground
 - imageStretch
 - inventoryOrganizationsLOVListSDP
 - mobileImage
 - varDFF_1
 - varOrgId
 - varWorkOrder

Parameters

- finder
- limit
- links
- offset
- onlyData
- orderBy
- q
- totalResults
- filterCriterion
- mergeTransformOptions
- pagingCriteria
- sortCriteria

filterCriterion Builder

Include items: ☒ Match All ☐ Match Any

IF OrganizationId equals Variables.varOrgId

AND WorkOrderNumber contains Variables.varWorkOrder

AND WorkOrderDFF.demoRedwood contains Variables.varDFF_1

Cancel Save

Mapping Table

Source	Parameter	Status
varWorkOrder	q	Not Mapped
workOrdersListSDP	totalResults	Not Mapped
	filterCriterion	Mapped
	mergeTransformOptions	Not Mapped
	pagingCriteria	Not Mapped
	sortCriteria	Not Mapped

Type * Create

getallWorkOrdersResponse

Go to Type

Items Path

b) For publishing your extension, you will need a Sandbox in SaaS and proper roles.

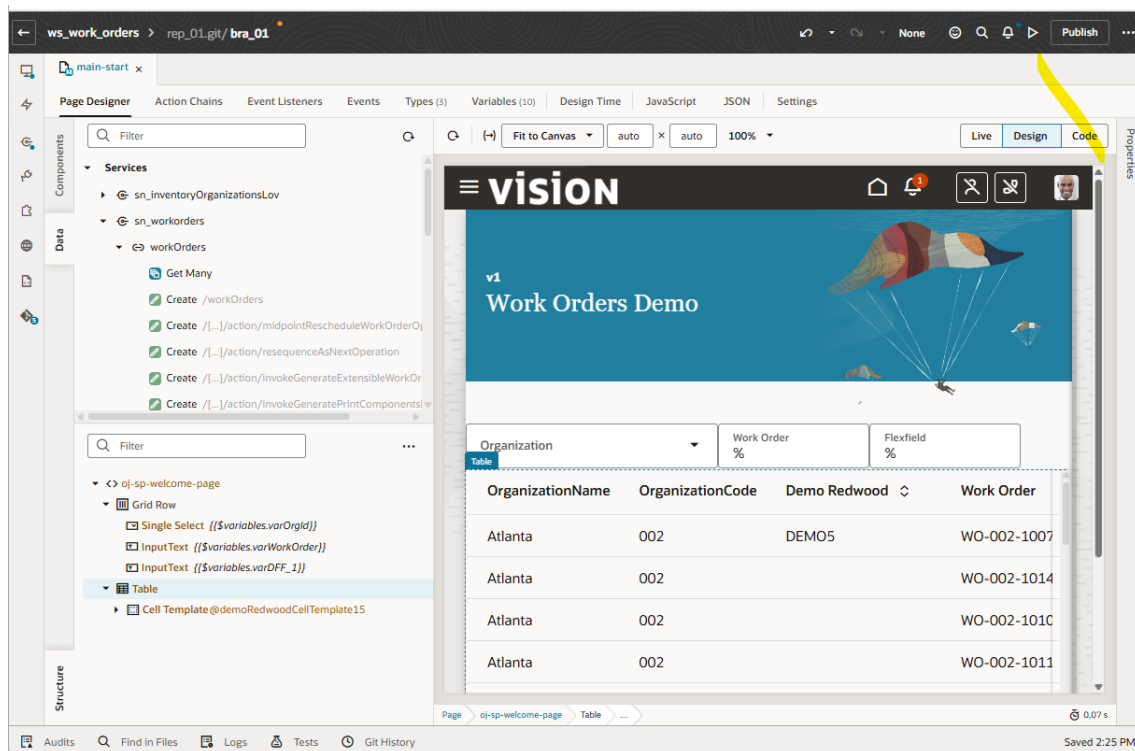
You have plenty of blogs that will tell you how to do this task.

Some chapters of our books also tell you how to accomplish the publishing task.

https://www.amazon.com/s?k=juan+jesus+montero&crd=3SOUOIW32IMZ&sprefix=%2Caps%2C144&ref=nb_sb_ss_recent_1_0_recent

c) Testing.

Run preview.



Then use filters to check if the page works as expected.

Blind query when we access the page.

Redwood cookbook 2026-Extension VERSION

Work Orders Demo

Organization

Work Order %


Flexfield %

OrganizationName	OrganizationCode	Demo Redwood	Work Order	ItemNumber	Item Description
PLNT B	410		WO-410-1042	FIT5000	Virtual Reality Trainer with 22 inch display
Boise	004		WO-004-CM-1001	AS7751100	Vision Slimline 5100 Tablet, 128 GB, 8" Display
Atlanta	002	DEMO1	WO-002-1004	AT6751000*110*	Vision Slimline 5000 Custom Tablet
Shanghai	050		WO-050-1000	SB6845110	One 32 GB DDR3-1600 DIMM
Shanghai	050		WO-050-1001	SB6845100	One 16 GB DDR3-1600 DIMM
Shenzhen	051		WO-051-1000	AS5841200	Vision Server X4-4-200
Shenzhen	051		WO-051-1001	AS5841100	Vision Server X4-4-100
Shenzhen	051		WO-051-1002	AS5841100	Vision Server X4-4-100

After filtering by Inventory Organization.

Redwood cookbook 2026-Extension VERSION

Work Orders Demo




Organization Dallas	Work Order %	Flexfield %			
OrganizationName	OrganizationCode	Demo Redwood	Work Order	ItemNumber	Item Description
Dallas	005	DEMO3	WO-005-1006	SB6651108	Ultra Mobile Superfast Tablet SSHD - 16GB, expandable upto
Dallas	005	DEMO4	WO-005-1007	SB6651109	Ultra Mobile Superfast Tablet SSHD - 32GB, expandable upto

After filtering by our Flexfield.

Redwood cookbook 2026-Extension VERSION

Work Orders Demo



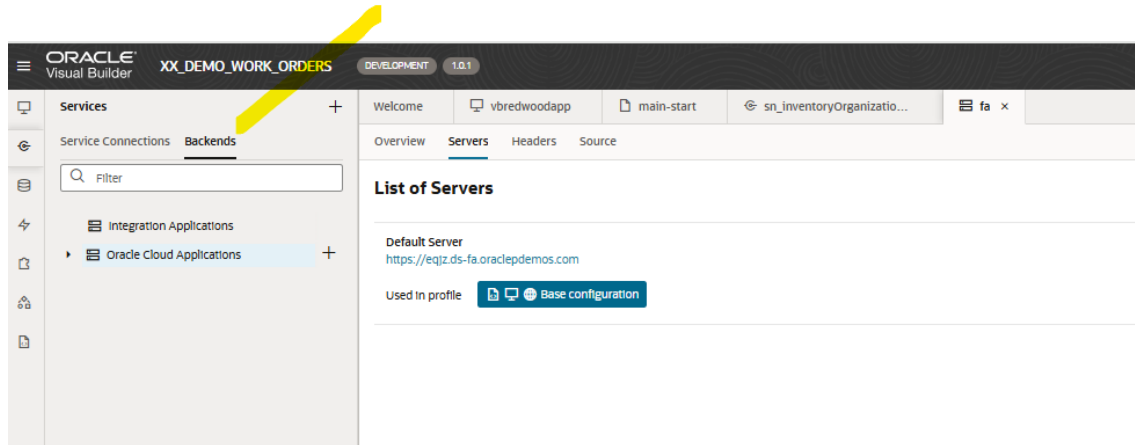
Organization Dallas	Work Order %	Flexfield DEMO4			
OrganizationName	OrganizationCode	Demo Redwood	Work Order	ItemNumber	Item Description
Dallas	005	DEMO4	WO-005-1007	SB6651109	Ultra Mobile Superfast Tablet SSHD - 32GB, expandable upto

d) Na.

Steps OIC-Visual Builder version.

After creating the application.

Take care of setting up the backend with an username and password with proper roles.



Technical steps to build will be basically the same: create connections, create variables, create components, apply filters in SDP are not different from used in building the extension.

Testing as above.

Blind query.

Redwood cookbook 2026-OIC VERSION						
Work Orders Query with Flexfield V.01						
Redwood cookbook 2026. OIC VERSION						
OrganizationName	Work Order %	Flexfield Demo %				
OrganizationName	Work Order	Demo Redwood	Item Description	ItemNumber	Priority	WorkOr
Atlanta	WO-002-1007	DEMO5	Vision Slimline 5100 Tablet, 32GB, 8" Display	AS6647432		ORA_Cl
Atlanta	WO-002-1014		Vision Slimline 5100 Tablet, 32GB, 8" Display	AS6647432		ORA_Cl
Atlanta	WO-002-1010		Vision InTab Air Series 6000 Slimline Tablet, 64GB, 10.1" Display	AS6648333		ORA_Cl
Atlanta	WO-002-1011		Vision InTab Air Series 6000 Slimline Tablet, 64GB, 10.1" Display	AS6648333		ORA_Cl
Atlanta	WO-002-1012		Vision InTab Air Series 6000 Slimline Tablet, 128GB, 10.1" Display	AS6648334		ORA_Cl
Atlanta	WO-002-1016		Vision InTab Air Series 6000 Slimline Tablet, 128GB, 10.1" Display	AS6648334		ORA_Cl
Dallas	WO-005-1006	DEMO3	Ultra Mobile Superfast Tablet SSHD - 16GB, expandable upto 128GB	SB6651108		ORA_Cl
Dallas	WO-005-1008		Ultra Mobile Superfast Tablet SSHD - 16GB, expandable upto 128GB	SB6651108		ORA_Cl

Filter with Inventory Organization.

Redwood cookbook 2026-OIC VERSION

Work Orders Query with Flexfield V.01

Redwood cookbook 2026. OIC VERSION

OrganizationName
Dallas

Work Order
%

Flexfield Demo
%

OrganizationName	Work Order	Demo Redwood	Item Description	ItemNumber	Priority	WorkOrder
Dallas	WO-005-1006	DEMO3	Ultra Mobile Superfast Tablet SSHD - 16GB, expandable upto 128GB	SB6651108		ORA_CLO
Dallas	WO-005-1007	DEMO4	Ultra Mobile Superfast Tablet SSHD - 32GB, expandable upto 128GB	SB6651109		ORA_CLO

Filter using flexfield.

Redwood cookbook 2026-OIC VERSION

Work Orders Query with Flexfield V.01

Redwood cookbook 2026. OIC VERSION

OrganizationName
Dallas

Work Order
%%

Flexfield Demo
DEMO3

OrganizationName	Work Order	Demo Redwood	Item Description	ItemNumber	Priority	WorkOrder
Dallas	WO-005-1006	DEMO3	Ultra Mobile Superfast Tablet SSHD - 16GB, expandable upto 128GB	SB6651108		ORA_CLO

Conclusion.

We have built an extension for building a page to query Work Orders using flexfield.
Then we repeated the exercise with the OIC Visual Builder instance.

Technical

Code in: https://github.com/juanjesusmontero/oracle_redwood_cookbook

Code example	Comments
XX_EXTENSION_WORKSPACE_DEMO_WORK_ORDERS_v4.zip	App UI Extension. Used in this demo.
XX_OIC_VB_DEMO_WORK_ORDERS-1.0.1.zip	OIC-Visual builder application. Same as above but using OIC-VB.

Username

Password



ESTE VA CON PAYLOAD DIFERENTE.

<https://dabpqy.ds->

[fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders/5060/child/WorkOrderDFF](https://dabpqy.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders/5060/child/WorkOrderDFF)

```
{
  "demoRedwood": "demoRedwood-001"
}
```

<https://dabpqy.ds->

[fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders/1040/child/WorkOrderDFF](https://dabpqy.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders/1040/child/WorkOrderDFF)

```
{
  "demoRedwood": "demoRedwood-002"
}
```

<https://fa-esll-saasfadem01.ds->

[fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders/300000203410955//child/ProcessWorkOrderDFF](https://fa-esll-saasfadem01.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders/300000203410955//child/ProcessWorkOrderDFF)

```
{
  "WorkOrderId": 300000203410955,
  "demoRedwood": "demoRedwood-001"
}
```

Manufacturing Organization 430 Change Organization

Overview Manage Work Orders x

Manage Work Orders ⓘ

Search

Work Order: WO-430-1003

Item:

Start Date:

Completion Date:

Status: All

Search Reset Save...

Search Results

View Format Release Release and Pick Materials Mass Action Print to PDF

Work Order	Priority	Item	Quantity	UOM	Status	Start Date	Completion Date	Reserve Materials	Progress	Output	Additional Information	IoT Insights
WO-430-1003	50805288		1.000	Gal	Closed	6/10/20 4:35 PM	6/10/20 5:29 PM	Manually		4		

Rows Selected 1 Columns Hidden 31

Edit Work Order: WO-430-1003 - 5080528B

General Information Operations (3) History

* Status: Closed
 Start Date: 6/10/20 4:35 PM
 Completion Date: 6/10/20 5:29 PM

Process
 Process Name: Juice from Concentrate - Line 1

Primary Output
 Primary Output: 5080528B
 Revision: A

Work Definition
Item Structure
Details
Completion Information
Additional Information
 Demo Redwood: demoRedwood-001
 Context Segment

Description
 Priority
 * Batch Quantity: 1,000 Gal
 — Undercompleted
 Output Description: Bulk Supremo Fitness Drink
 * Quantity: 1,000 Gal

<https://fa-esll-saasfademo1.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders/300000181877647//child/ProcessWorkOrderDFF>

```
{
  "WorkOrderId": 300000181877647,
  "demoRedwood": "demoRedwood-002"
}
```

Overview **Manage Work Orders** x

Manage Work Orders

Search Advanced Save

Search Results

View Format Release Release and Pick Materials Mass Action Print to PDF

Work Order	Priority	Item	Quantity	UOM	Status	Start Date	Completion Date	Reserve Materials Manually	Progress	Output	Additional Information	IoT I
WO-430-1000		5080528B	1,000	Gal	Closed	4/15/19 9:00 AM	4/15/19 9:54 AM			4		

Columns Hidden 31

WO-430-1000: Additional Information X

Demo Redwood demoRedwood-002

Context Segment

OK

<https://fa-esll-saasfademo1.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders/300000185993509/child/ProcessWorkOrderDFF>

https://fa-esll-saasfademo1.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders/300000243478856/child/ProcessWorkOrderDFF

```
{
  "WorkOrderId": 300000243478856,
  "demoRedwood": "demoRedwood-1022"
}
```

Manage Work Orders

Search

Search Results

View

Format

+

Release

Release and Pick Materials

Mass Action

Print to PDF

Work Order	Priority	Item	Quantity	UOM	Status	Start D	Details	Pro
WO-430-1019		5080528B	1,000	Gal	Completed	8/18/21		
WO-430-1020		FBF-10024	50	Kilogr...	Closed	3/8/22 1		
WO-430-1021		FBF-10025	50	Kilogr...	Closed	3/8/22 11:56 AM	3/8/22 12:48 PM	
WO-430-1022		FBF-10026	1,923	Ea	Closed	3/8/22 1:13 PM	3/8/22 2:35 PM	

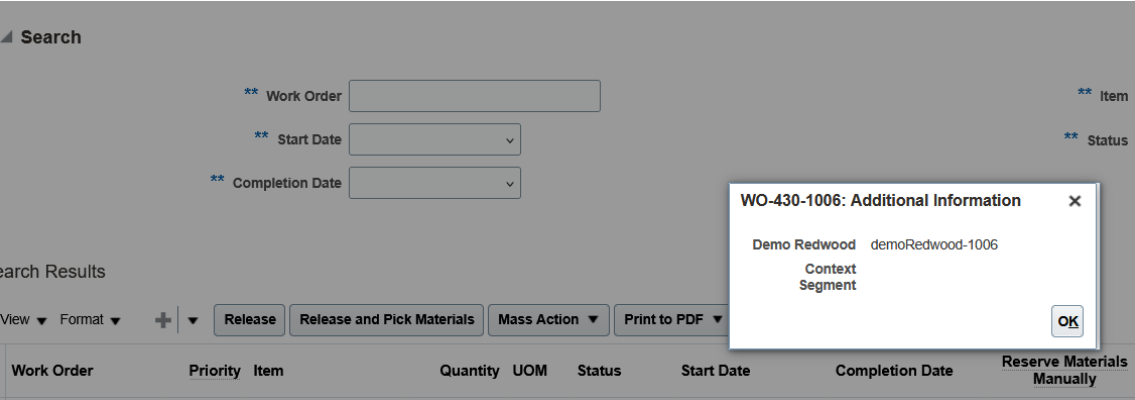
WO-430-1022: Additional Information

Demo Redwood demoRedwood-1022

Context Segment

OK

```
https://fa-esll-saasfademo1.ds-
fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders/30000021
9726029/child/ProcessWorkOrderDFF
{
  "WorkOrderId": 300000219726029,
  "demoRedwood": "demoRedwood-1006"
}
```



curtis.feitty

https://fa-esll-saasfadem01.ds-
fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders/30000018
1877647/child/ProcessWorkOrderDFF

```
{  
  "WorkOrderId": 300000181877647,  
  "demoRedwood": "pepe"  
}
```

https://fa-esll-saasfadem01.ds-
fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders/30000018
1877647

https://fa-esll-saasfadem01.ds-
fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders

https://fa-esll-saasfadem01.ds-
fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders?q=Process
WorkOrderDFF.demoRedwood='pepe'

```
{  
  "items": [  
    {  
      "OrganizationId": 300000181200224,
```

```
"OrganizationCode": "430",  
"OrganizationName": "PLNT G",  
"WorkOrderId": 300000181877647,  
"WorkOrderNumber": "WO-430-1000",
```

<https://fa-esll-saasfadem01.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders/300000203410955/child/ProcessWorkOrderDFF>

```
{  
  "WorkOrderId": 300000203410955,  
  "demoRedwood": "pepe2"  
}
```

<https://fa-esll-saasfadem01.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders?q=ProcessWorkOrderDFF.demoRedwood='pepe'>

<https://fa-esll-saasfadem01.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders?q=ProcessWorkOrderDFF.demoRedwood='pepe'>

LOS QUE SE VEN POR PANTALLA NO CASAN CON LOS QUE FILTRO POR ORGANIZACION

PERO CON EL OTRO REST SI SE VEN

https://fa-esll-saasfademol.ds-
fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders

https://fa-esll-saasfademol.ds-
fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders?q=OrganizationCo
de='430' &onlyData=true&limit=1&expand=all

https://fa-esll-saasfademol.ds-
fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders?q=OrganizationCo
de='430' and WorkOrderNumber='WO-430-1001'&onlyData=true&expand=all

https://fa-esll-saasfademol.ds-
fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/processWorkOrders/30000020
5276909/child/ProcessWorkOrderDFF

```
{  
  "WorkOrderId": 300000205276909,  
  "demoRedwood": "pepe2"  
}
```

[https://fa-esll-saasfademol.ds-
fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders/300000185993491](https://fa-esll-saasfademol.ds-fa.oraclepdemos.com:443/fscmRestApi/resources/11.13.18.05/workOrders/300000185993491)