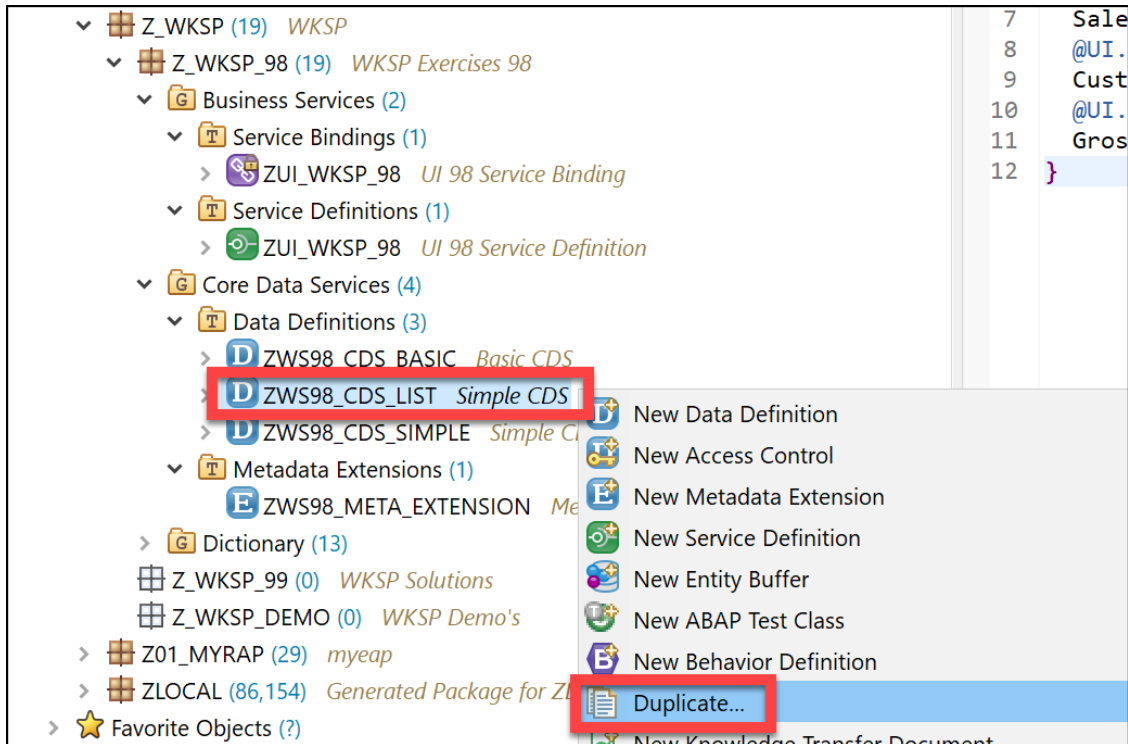


Add Search and Filters to List Report

Task 1: Duplicate CDS **ZWS##_CDS_LIST** to **ZWS##_CDS_LIST_SEARCH**



Make sure you change the `@AbapCatalog.sqlViewName`.

Add extra field for CreationDate and Customer Email.

```
@AbapCatalog.sqlViewName: 'ZWK##CDSLISTSRCRCH'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'List Report'
@UI.headerInfo.typeName: 'Sales Order'
@UI.headerInfo.typeNamePlural: 'Sales Orders'
define view ZWS##_CDS_LIST_SEARCH
  as select from ztmcds9_i_so
  {
    @UI.lineItem: [{position: 10 }]
    key Id
  as SalesOrderID,
    CustomerId
  as CustomerID,
    @UI.lineItem: [{position: 20 }, { label: 'Customer Name' }]
    _Customer.name
```

```

as CustomerName,
    @UI.lineItem: [{position: 30 }, { label: 'E-mail' }]
    _Customer.email
as CustomerEmail,
    @UI.lineItem: [{position: 40 }]
    GrossAmount,
    @UI.lineItem: [{position: 50}, { label: 'Creation Date' }]
    cast( left(cast(CreationDateTime as abap.char( 30)),8) as
abap.dats) as CreationDate
}

```

Task 2: Add the new CDS to your *Service Definition*

```

@EndUserText.label: 'UI ## Service Definition'
define service ZUI_WKSP_## {
    expose ZWS##_CDS_Simple as SimpleCDS;
    expose ZWS##_CDS_Basic as BasicCDS;
    expose ZWS##_CDS_LIST as BasicList;
    expose ZWS##_CDS_LIST_SEARCH as BasicSearch;
}

```

Task 3: Create a new Fiori elements application with the new CDS

Create a new Fiori Application using the Template Wizard for a *List Report*

Field	Value
Data source	Connect to a System
System	abap-cloud-default_xx-dev (BTP)
Service	ZUI_WKSP_##
Main entity	BasicSearch
Module name	basic-search
Application title	Basic List with Search
Application namespace	nato.workshop
Description	Basic List with Search
Project folder path	/home/user/projects
Add deployment configuration	Yes

Field	Value
Add FLP configuration	Yes
Deployment Target	Cloud Foundry
Destination name	abap-cloud-default_xx(SCP)
Add application to managed application router	Yes
Semantic Object	NATO
Action	BasicSearch
Title	Basic List with Search
Subtitle	Workshop

- Data Source and Service Selection

Data Source and Service Selection

Configure the data source and select a service.

Data source *

Connect to a System

System ? *

abap-cloud-default_abap-trial-d4a3a905trial-dev (BTP)

Service *

ZUI_WKSP_98 > ZUI_WKSP_98 (0001) - OData V4

- Entity Selection

Entity Selection

Configure the selected service.

Main entity *

BasicSearch

Automatically add table columns to the list page and a section to the object page if none already exists?
☒ Yes ☐ No

- Project Attributes

Project Attributes

Configure the main project attributes.

Module name  *

basic-search

Application title 

Basic List with Search

Application namespace 

nato.workshop

Description 

Basic List with Search

Project folder path *

/home/user/projects

Minimum SAPUI5 version  *

1.96.7 (Source system version)

Add deployment configuration



☒ Yes

☐ No

Add FLP configuration

☒ Yes

☐ No

Configure advanced options

☐ Yes

☒ No

- Deployment Configuration

Deployment Configuration

Configure deployment settings

Please choose the target *

Cloud Foundry

Destination name *

abap-cloud-default_abap-trial-d4a3a905trial-dev(SCP) - https://

Add application to managed application router?

☒ Yes

☐ No

- Fiori Launchpad Configuration

Fiori Launchpad Configuration

Configure Fiori Launchpad settings


Semantic Object *


Action *

Title *

Subtitle (optional)

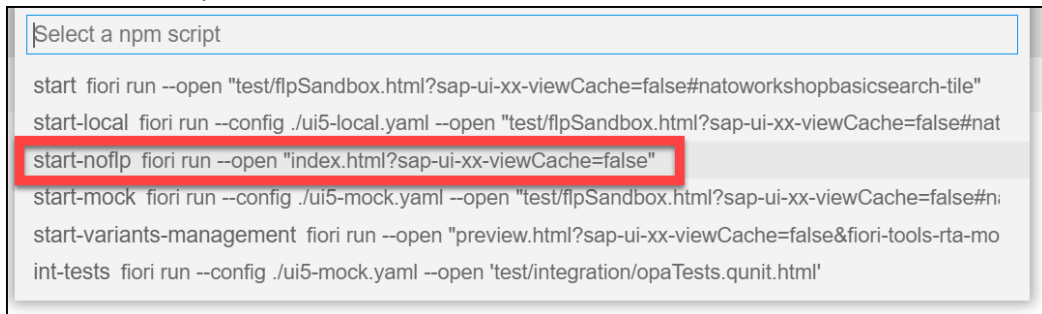
- Preview Application

 **What you can do**

 **Preview Application**

Choose from start scripts to run the application preview.

- Select start-noflp, this is the fastest test.



- Result

Sales Orders (7)					
Sales Order Id	Customer Name	Gross Amo...			
1	Pixel Tech	523.29	Jan 6, 2022	>	
2	Pixel Tech	1,940.88	Jan 12, 2022	>	
3	Techlanch	5.2	Feb 2, 2022	>	
4	Monotech	196.2	Feb 22, 2022	>	
5	Visions	3,294.31	Mar 14, 2022	>	
6	Techaholic	600	Mar 26, 2022	>	
7	Techlanch	2,054.58	Apr 3, 2022	>	

Task 4: Add Search to CDS view

- Add a `@Search.searchable: true` annotation to your CDS view before the `define view...`
- Set fields `CustomerName` and `CustomerEmail` as default search elements.
- Set Fuzzy search level at 60%.
- Activate your CDS and Reload your fiori application to see the results.

```

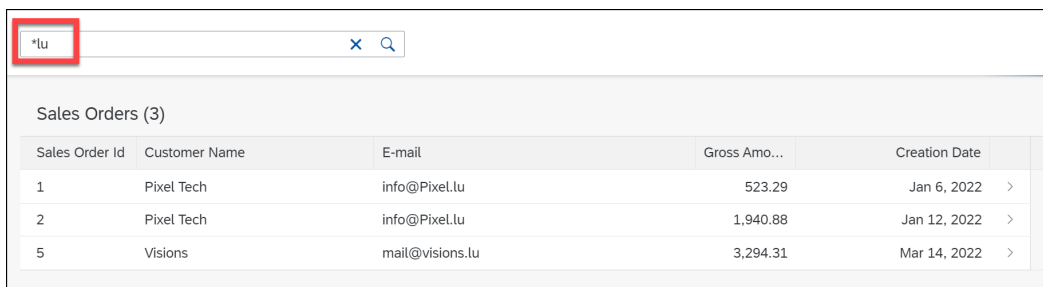
@AbapCatalog.sqlViewName: 'ZWK##CDSLISRCH'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'List Report'
@UI.headerInfo.typeName: 'Sales Order'
@UI.headerInfo.typeNamePlural: 'Sales Orders'
@Search.searchable: true
define view ZWS##_CDS_LIST_SEARCH
as select from ztmcds9_i_so
{
    @UI.lineItem: [{position: 10 }]
    key Id
as SalesOrderID,
  
```

```

        CustomerId
as CustomerID,
    @UI.lineItem: [{position: 20 },{ label: 'Customer Name' }]
    @Search.defaultSearchElement: true
    _Customer.name
as CustomerName,
    @UI.lineItem: [{position: 30 },{ label: 'E-mail' }]
    @Search.defaultSearchElement: true
    @Search.fuzzinessThreshold : 0.6
    _Customer.email
as CustomerEmail,
    @UI.lineItem: [{position: 40 }]
    GrossAmount,
    @UI.lineItem: [{position: 50},{ label: 'Creation Date' }]
    cast( left(cast(CreationDateTime as abap.char( 30)),8) as
abap.dats) as CreationDate
}

```

- Result



Sales Order Id	Customer Name	E-mail	Gross Amo...	Creation Date	
1	Pixel Tech	info@Pixel.lu	523.29	Jan 6, 2022	>
2	Pixel Tech	info@Pixel.lu	1,940.88	Jan 12, 2022	>
5	Visions	mail@visions.lu	3,294.31	Mar 14, 2022	>

- Play a bit with the fuzzy search levels.

Task 4: Add Selection fields for Filtering

- Add filters for fields *CustomerId* and *CreationDate*.

```

@AbapCatalog.sqlViewName: 'ZWK##CDSLSTSRCH'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@endUserText.label: 'List Report'
@UI.headerInfo.typeName: 'Sales Order'
@UI.headerInfo.typeNamePlural: 'Sales Orders'
@Search.searchable: true
define view ZWS##_CDS_LIST_SEARCH
as select from ztmcds9_i_so
{
    @UI.lineItem: [{position: 10 }]
    key Id
}

```



```

as SalesOrderID,
    @UI.selectionField: [{position: 10}]
    CustomerId
as CustomerID,
    @UI.lineItem: [{position: 20 }, { label: 'Customer Name' }]
    @Search.defaultSearchElement: true
    @Search.fuzzinessThreshold : 0.6
    _Customer.name
as CustomerName,
    @UI.lineItem: [{position: 30 }, { label: 'E-mail' }]
    @Search.defaultSearchElement: true
    _Customer.email
as CustomerEmail,
    @UI.lineItem: [{position: 40 }]
    GrossAmount,
    @UI.lineItem: [{position: 50}, { label: 'Creation Date' }]
    @UI.selectionField: [{position: 20}]
    cast( left(cast(CreationDateTime as abap.char( 30)),8) as
abap.dats) as CreationDate
}

```

- Result

Search

Customer Id:

CreationDate:

Sales Orders (7)

Sales Order Id	Customer Name	E-mail	Gross Amo...	Creation Date	
1	Pixel Tech	info@Pixel.lu	523.29	Jan 6, 2022	>
2	Pixel Tech	info@Pixel.lu	1,940.88	Jan 12, 2022	>
3	Techlanch	info@techlanch.be	5.2	Feb 2, 2022	>

- With active filter

Customer Id:

Search

=1 x

CreationDate:

Sales Orders (2)

Sales Order Id	Customer Name	E-mail	Gross Amo...	Creation Date	
1	Pixel Tech	info@Pixel.Lu	523.29	Jan 6, 2022	>
2	Pixel Tech	info@Pixel.Lu	1,940.88	Jan 12, 2022	>

- Basic Filter Screen

Customer Id

Customer Id

equal to

Value

Add

Include

- contains
- equal to
- between
- starts with
- ends with
- less than
- less than or equal to
- greater than
- greater than or equal to
- empty

Exclude

- does not contain
- not equal to
- not between
- does not start with
- does not end with
- not less than
- not less than or equal to
- not greater than
- not greater than or equal to
- not empty

OK Cancel

Task 5: Add Value Helps to Filters

- Have a look at CDS **ZTMCD9_C_VH_CUST** in package **Z_TMC**.
- Use this CDS as Value Help for the *CustomerId*.
- Add *@Consumption.filter.selectionType: #INTERVAL* to the *CreationDate* filter and see the result.

```
@AbapCatalog.sqlViewName: 'ZWK##CDSLISTSRC'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'List Report'
@UI.headerInfo.typeName: 'Sales Order'
@UI.headerInfo.typeNamePlural: 'Sales Orders'
@Search.searchable: true
define view ZWS##_CDS_LIST_SEARCH
  as select from ztmcds9_i_so
  association [1] to ztmcds9_c_vh_cust as _CustomerVH
  on $projection.CustomerID = _CustomerVH.SoldToParty
{
  @UI.lineItem: [{position: 10}]
  key Id
  as SalesOrderID,
```

```

    @UI.selectionField: [{position: 10}]
    @Consumption.valueHelpDefinition: [{ entity:{ name:
'ZTMCD59_C_VH_CUST', element: 'SoldToParty' }}]
    CustomerId
as CustomerID,
    @UI.lineItem: [{position: 20 },{ label: 'Customer Name' }]
    @Search.defaultSearchElement: true
    @Search.fuzzinessThreshold : 0.6
    _Customer.name
as CustomerName,
    @UI.lineItem: [{position: 30 },{ label: 'E-mail' }]
    @Search.defaultSearchElement: true
    _Customer.email
as CustomerEmail,
    @UI.lineItem: [{position: 40 }]
    GrossAmount,
    @UI.lineItem: [{position: 50},{ label: 'Creation Date' }]
    @UI.selectionField: [{position: 20}]
    @Consumption.filter.selectionType: #INTERVAL
    cast( left(cast(CreationDateTime as abap.char( 30)),8) as
abap.dats) as CreationDate,
    _CustomerVH
}

```

- Filter for *CustomerId*

Customer

Search and Select Define Conditions

Search

Items

<input type="checkbox"/>	Customer Id	CompanyName	Country/Region Key
<input type="checkbox"/>	1	Pixel Tech	LU
<input type="checkbox"/>	2	Visions	LU
<input type="checkbox"/>	3	Techaholic	NL
<input type="checkbox"/>	4	Monotech	NL
<input type="checkbox"/>	5	Techlanch	BE

No Items or Conditions Selected

- Filter for *CreationDate*

CreationDate:

Time Period

Date

Date

From

To

Date Range

Today

May 8, 2022

Yesterday

May 7, 2022

Tomorrow

May 9, 2022

Today -X / +Y days

Last X days

Next X days

This week

May 8, 2022 - May 14, 2022

Last week

May 1, 2022 - May 7, 2022

Last X weeks

Next week

May 15, 2022 - May 21, 2022

Next X weeks

Month

This month

May 1, 2022 - May 31, 2022

Last month

Apr 1, 2022 - Apr 30, 2022

Last X months

Next month

Jun 1, 2022 - Jun 30, 2022

Next X months

This quarter

Apr 1, 2022 - Jun 30, 2022

OK

Cancel