# External Navigation and Visualiztion

## Task 1: New CDS **ZWS##_CDS_NAV_EXT**

- Create a new CDS **ZWS##_CDS_NAV_EXT** based on **ztmdt9_products** with an assosiation to **ztmdt9_suppliers**
- Add fields

| Position | Field | Name |
|----------|-------|------|
| 10 | id | ProductId |
| 20 | name | |
| 30 | supplier_id | |
| 40 | _Supplier.name | SupplierName |

- Make the field SupplierName an external link to *https://www.google.com/search?q=SupplierName*.
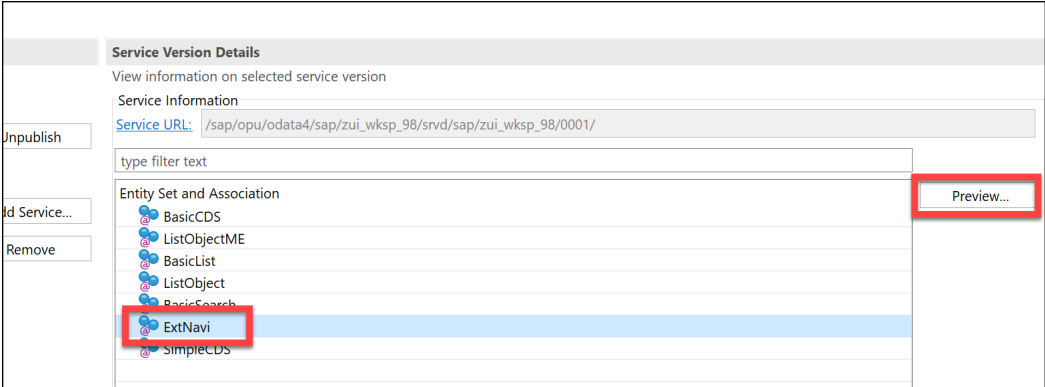- Add the new CDS to your *Service Definition* and use the *Preview* option in your *Service Binding* to test your result.

```
@AbapCatalog.sqlViewName: 'ZWS##CDSNAVEXT'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'Navigate to external link'
@UI.headerInfo.typeNamePlural: 'Products'
define view ZWS##_CDS_NAV_EXT
  as select from ztmdt9_products
  association [1] to ztmdt9_suppliers as _Supplier on _Supplier.id
= ztmdt9_products.supplier_id
{
      @UI.lineItem: [{ position: 10 }]
  key id
as ProductId,
      @UI.lineItem: [{ position: 20 }]
      name
as ProductDescription,
      @UI.lineItem: [{ position: 30 }]
      supplier_id
as SupplierId,
      @UI.lineItem: [{ position: 40, url: 'SearchURL', type:
#WITH_URL }]
```

```
        _Supplier.name
as SupplierName,
      @UI.hidden: true
      concat('https://www.google.com/search?q=', _Supplier.name)
as SearchURL
}
```

```
@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;
  expose ZWS##_CDS_LIST_OBJECT as ListObject;
  expose ZWS##_CDS_C_LO as ListObjectME;
  expose ZWS##_CDS_NAV_EXT as ExtNavi;
}
```
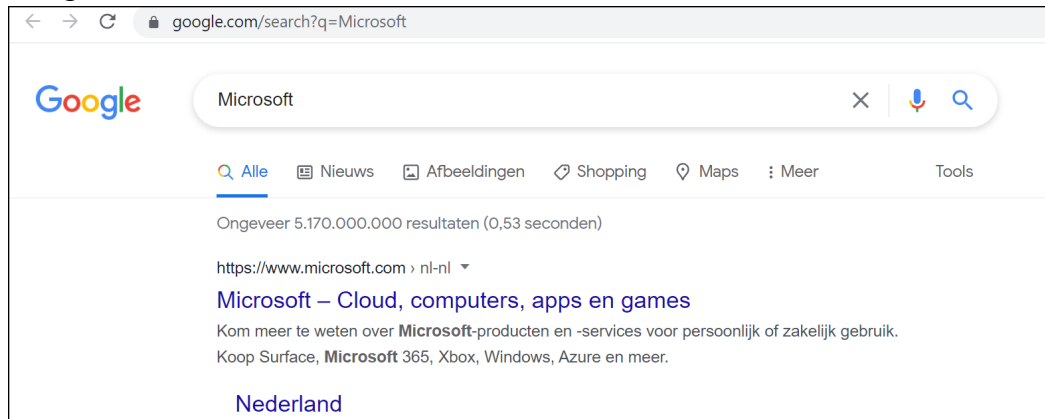
- Preview



- Result

- Navigation



## Task 2: Add visualization

- Add the fields *uom* and *stock* to the view
- When the stock is < 30 then color it Red
- When the stock is > 80 then color it Orange
- Else then color green

```
@AbapCatalog.sqlViewName: 'ZWS##CDSNAVEXT'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'Navigate to external link'
@UI.headerInfo.typeNamePlural: 'Products'
define view ZWS##_CDS_NAV_EXT
  as select from ztmdt9_products
  association [1] to ztmdt9_suppliers as _Supplier on _Supplier.id
= ztmdt9_products.supplier_id
{
      @UI.lineItem: [{ position: 10 }]
  key id
as ProductId,
      @UI.lineItem: [{ position: 20 }]
      name
as ProductDescription,
      @UI.lineItem: [{ position: 30 }]
      supplier_id
as SupplierId,
      @UI.lineItem: [{ position: 40, url: 'SearchURL', type:
#WITH_URL }]
      _Supplier.name
as SupplierName,
      @UI.hidden: true
      concat('https://www.google.com/search?q=', _Supplier.name)
```

```
as SearchURL,
     @Semantics.unitOfMeasure: true
     uom,
     @UI.lineItem: [{ position: 50, criticality:
'StockLevelCritical' }]
     stock,
     @UI.hidden: true
     case when stock < 30 then 1
     when stock > 80 then 2
     else 3 end
as StockLevelCritical
}
```

- Result

| Products (4) | | | | | |
|---|---|---|---|---|---|
| Product Id | | Supplier Id | | Quantity | |
| 90001 | Galaxy S22 | 1 | Samsung | ⊗ 28.00 | › |
| 90002 | Gmail | 3 | Google | ⊘ 69.00 | › |
| 90003 | Galaxy Tab 5e | 1 | Samsung | ⊗ 3.00 | › |
| 90004 | Office 365 | 2 | Microsoft | ⚠ 95.00 | › |