Exercise 10F – Create Projection View

SAP Partner Workshop



10 min

Description

In this exercise, you'll learn how:

• Create Projection View.

Prerequisites

• You have completed the steps mentioned until Exercise 10E.

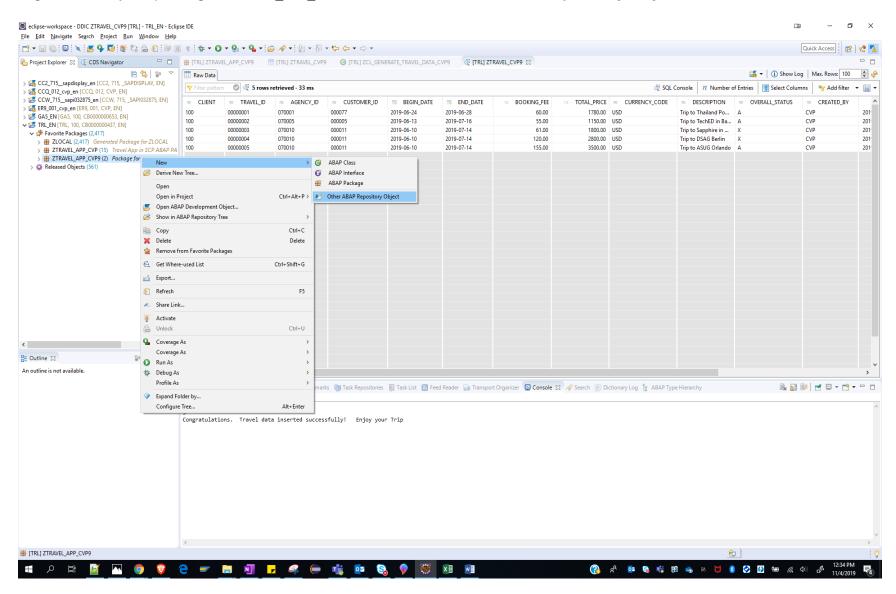
Target group

- Developers
- People interested in learning about development in ABAP env in SAP Cloud Platform with focus on RAP model.

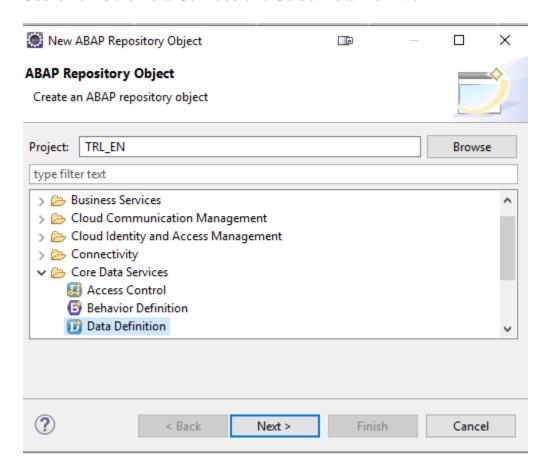
Goal

The goal of this exercise is to create a Projection View with UI annotations.

Right-click on your package ZTRAVEL APP XXX, select New > Other ABAP Repository Object.



Search on Core Data Services and Select Data Definition.



Click Next and Name and Description as follows.

• Name: zc_travel_m_xxx

• Description: Projection view for travel

Click on Next and Finish. Replace the code generated with the following code. @EndUserText.label: 'Travel projection view - Processor' @AccessControl.authorizationCheck: #NOT_REQUIRED @UI: { headerInfo: { typeName: 'Travel', typeNamePlural: 'Travels', title: { type: #STANDARD, value: 'TravelID' } } } @Search.searchable: true define root view entity ZC_TRAVEL_M_XXX as projection on ZI_TRAVEL_M_XXX { @UI.facet: [{ id: 'Travel', #STANDARD, purpose: #IDENTIFICATION_REFERENCE, type: label: 'Travel',

```
@UI: {
  lineItem:
               [ { position: 10, importance: #HIGH } ],
  identification: [ { position: 10, label: 'Travel ID [1,...,99999999]' } ] }
@Search.defaultSearchElement: true
key travel_id
                   as TravelID,
@UI: {
  lineItem:
               [ { position: 20, importance: #HIGH } ],
  identification: [ { position: 20 } ],
  selectionField: [ { position: 20 } ] }
@Consumption.valueHelpDefinition: [{ entity : {name: '/DMO/I_Agency', element: 'AgencyID' } }]
@ObjectModel.text.element: ['AgencyName'] ----meaning?
@Search.defaultSearchElement: true
                as AgencyID, _Agency.Name
                                                  as AgencyName,
agency_id
```

position:

10 }]

```
@UI: {
  lineItem:
               [ { position: 30, importance: #HIGH } ],
  identification: [ { position: 30 } ],
  selectionField: [ { position: 30 } ] }
@Consumption.valueHelpDefinition: [{ entity : {name: '/DMO/I_Customer', element: 'CustomerID' } }]
@ObjectModel.text.element: ['CustomerName']
@Search.defaultSearchElement: true
customer_id
                 as CustomerID,
@UI.hidden: true
_Customer.LastName as CustomerName,
@UI: {
  lineItem:
               [ { position: 40, importance: #MEDIUM } ],
  identification: [ { position: 40 } ] }
```

```
begin_date
                as BeginDate,
@UI: {
  lineItem:
               [ { position: 41, importance: #MEDIUM } ],
  identification: [ { position: 41 } ] }
                as EndDate,
end_date
@UI: {
  lineItem:
               [ { position: 50, importance: #MEDIUM } ],
  identification: [ { position: 50, label: 'Total Price' } ] }
@Semantics.amount.currencyCode: 'CurrencyCode'
total_price
               as TotalPrice,
@Consumption.valueHelpDefinition: [{entity: {name: 'I_Currency', element: 'Currency' }}]
currency_code
                  as CurrencyCode,
@UI: {
```

```
lineItem:
                [ { position: 60, importance: #HIGH },
               { type: #FOR_ACTION, dataAction: 'acceptTravel', label: 'Accept Travel' } ],
  identification: [ { position: 60, label: 'Status [O(Open)|A(Accepted)|X(Canceled)]' } ] }
overall_status as TravelStatus,
@UI.identification: [ { position: 70, label: 'Remarks' } ]
description as Description,
@UI.hidden: true
last_changed_at as LastChangedAt
```

Replace XXX with the actual name in the code copied.

An example:

```
@EndUserText.label: 'Travel projection view - Processor'
@AccessControl.authorizationCheck: #NOT REQUIRED
@UI: {
headerInfo: { typeName: 'Travel', typeNamePlural: 'Travels', title: { type: #STANDARD, value: 'TravelID' } } }
@Search.searchable: true
define root view entity ZC_TRAVEL_M_CVP9 as projection on ZI TRAVEL M CVP9 {
                                 'Travel',
@UI.facet: [ { id:
                                 #STANDARD,
                purpose:
                                 #IDENTIFICATION REFERENCE,
                type:
                label:
                                 'Travel',
                position:
                                 10 } ]
 @UI: {
    lineItem:
                     [ { position: 10, importance: #HIGH } ],
    identification: [ { position: 10, label: 'Travel ID [1,...,999999999]' } ] }
 @Search.defaultSearchElement: true
 key travel id
                        as TravelID,
 @UI: {
    lineItem:
                     [ { position: 20, importance: #HIGH } ],
     identification: [ { position: 20 } ],
     selectionField: [ { position: 20 } ] }
@Consumption.valueHelpDefinition: [{ entity : {name: '/DMO/I_Agency', element: 'AgencyID' } }]
 @ObjectModel.text.element: ['AgencyName']
 @Search.defaultSearchElement: true
 agency id
                    as AgencyID, Agency.Name
                                                    as AgencyName,
 @UI: {
    lineItem:
                    [ { position: 30, importance: #HIGH } ],
    identification: [ { position: 30 } ],
     selectionField: [ { position: 30 } ] }
```

```
@Consumption.valueHelpDefinition: [{ entity : {name: '/DMO/I Customer', element: 'CustomerID' } }]
@ObjectModel.text.element: ['CustomerName']
@Search.defaultSearchElement: true
customer id
                   as CustomerID,
@UI.hidden: true
Customer.LastName as CustomerName,
@UI: {
   lineItem:
                  [ { position: 40, importance: #MEDIUM } ],
   identification: [ { position: 40 } ] }
begin date
                  as BeginDate,
@UI: {
   lineItem:
                  [ { position: 41, importance: #MEDIUM } ],
   identification: [ { position: 41 } ] }
                  as EndDate.
end_date
@UI: {
   lineItem:
                    [ { position: 50, importance: #MEDIUM } ],
    identification: [ { position: 50, label: 'Total Price' } ] }
@Semantics.amount.currencyCode: 'CurrencyCode'
total price
                   as TotalPrice,
@Consumption.valueHelpDefinition: [{entity: {name: 'I Currency', element: 'Currency' }}]
currency code
                   as CurrencyCode,
@UI: {
      lineItem:
                      [ { position: 60, importance: #HIGH },
                        { type: #FOR ACTION, dataAction: 'acceptTravel', label: 'Accept Travel' } ],
   identification: [ { position: 60, label: 'Status [O(Open)|A(Accepted)|X(Canceled)]' } ] }
overall status
                   as TravelStatus,
@UI.identification: [ { position: 70, label: 'Remarks' } ]
description as Description,
@UI.hidden: true
                  as LastChangedAt
last changed at
```

}

Save (Ctrl – S) and Activate (Ctrl-F3).

To verify the data, right click on the code editor, Open with -> Data Preview.

