### Exercise 10E - Create CDS Based Data Model

**SAP Partner Workshop** 



10 min

# **Description**

In this exercise, you'll learn how:

Create CDS Based Data Model.

#### **Prerequisites**

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

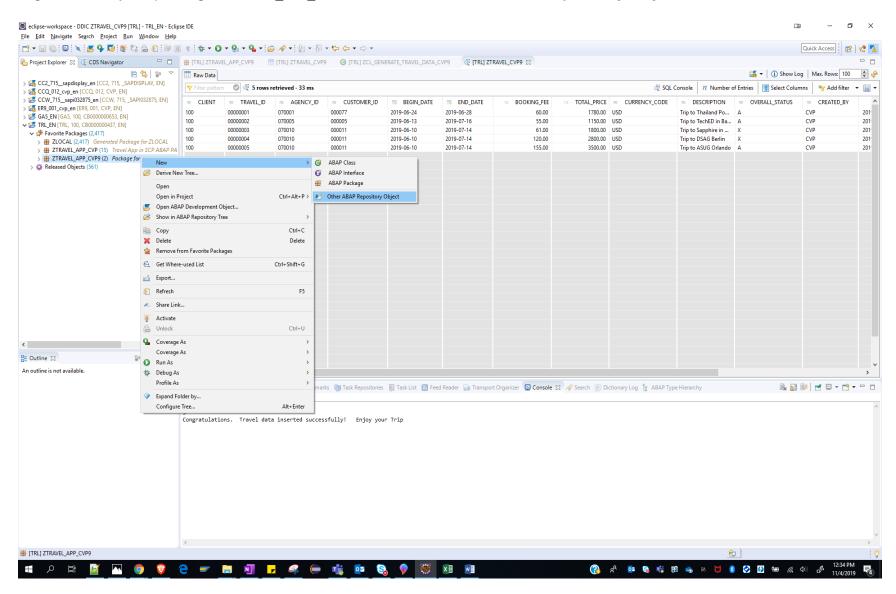
## **Target group**

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

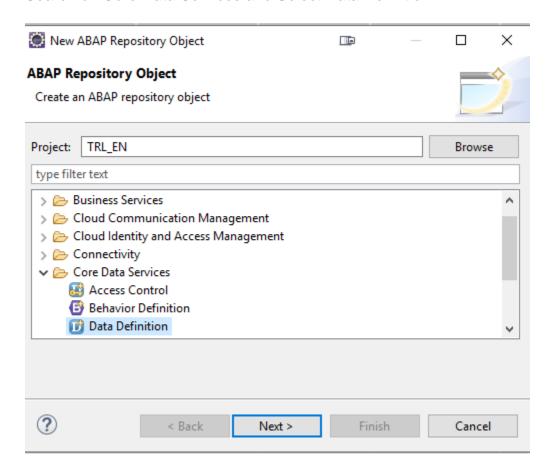
#### Goal

The goal of this exercise is to create a CDS Based Data Model.

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



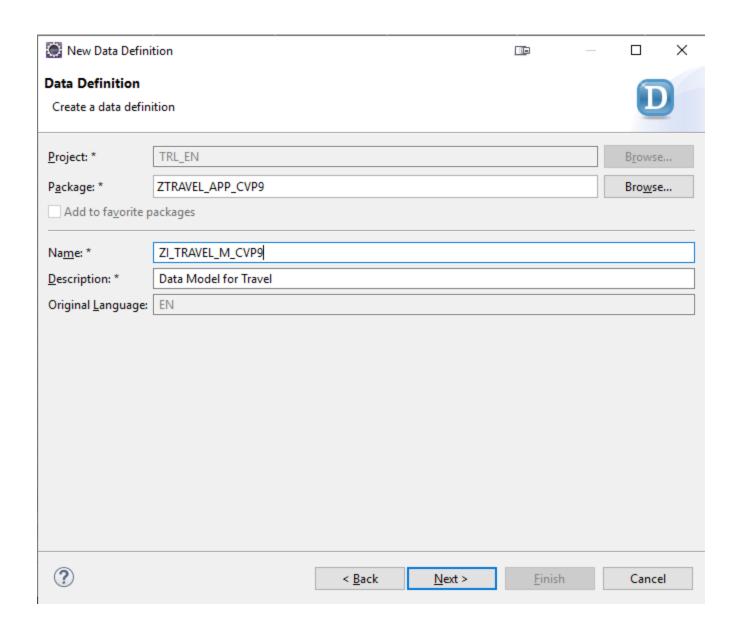
Search on Core Data Services and Select Data Definition.



Click Next and Name and Description as follows.

• Name: ZI\_TRAVEL\_M\_XXX

• Description: Data model for travel



Click on Next and Finish.

Replace the code generated with the following code.

@AbapCatalog.sqlViewName: 'ZVI\_TRAVEL\_M\_XXX'

@AbapCatalog.compiler.compareFilter: true

@AbapCatalog.preserveKey: true

@AccessControl.authorizationCheck: #CHECK

@EndUserText.label: 'Travel data - XXX'

define root view ZI\_TRAVEL\_M\_XXX

as select from ztravel\_xxx as Travel

```
/* Associations */
association [0..1] to /DMO/I_Agency as _Agency on $projection.agency_id = _Agency.AgencyID
association [0..1] to /DMO/I_Customer as _Customer on $projection.customer_id = _Customer.CustomerID
association [0..1] to I_Currency as _Currency on $projection.currency_code = _Currency.Currency
{
key travel_id,
```

```
agency_id,
  customer_id,
  begin_date,
  end_date,
   @Semantics.amount.currencyCode: 'currency_code'
  booking_fee,
   @Semantics.amount.currencyCode: 'currency_code'
  total_price,
   @Semantics.currencyCode: true
  currency_code,
  overall_status,
  description,
/*-- Admin data --*/
   @Semantics.user.createdBy: true
  created_by,
   @Semantics.systemDateTime.createdAt: true
```

```
created_at,

@ Semantics.user.lastChangedBy: true

last_changed_by,

@ Semantics.systemDateTime.lastChangedAt: true

last_changed_at,

/* Public associations */

_Agency,

_Customer,

_Currency
```

Replace XXX with the actual name in the code copied.

#### An example:

```
@AbapCatalog.sqlViewName: 'ZVI TRAVEL MCVP9'
@AbapCatalog.compiler.compareFilter: true
@AbapCatalog.preserveKey: true
@AccessControl.authorizationCheck: #CHECK
@EndUserText.label: 'Travel data - CVP9'
define root view ZI_TRAVEL_M_CVP9
 as select from ztravel cvp9 as Travel
 /* Associations */
 association [0..1] to /DMO/I Agency
                                      as Agency
                                                    on $projection.agency_id = _Agency.AgencyID
 association [∅..1] to /DMO/I Customer as Customer on $projection.customer id = Customer.CustomerID
 association [0..1] to I Currency
                                      as Currency on $projection.currency code = Currency.Currency
  key travel id,
     agency id,
     customer id,
     begin date,
     end date,
    @Semantics.amount.currencyCode: 'currency code'
     booking fee,
    @Semantics.amount.currencyCode: 'currency code'
    total price,
    @Semantics.currencyCode: true
     currency code,
     overall status,
     description,
/*-- Admin data --*/
     @Semantics.user.createdBy: true
     created by,
    @Semantics.systemDateTime.createdAt: true
     created at,
    @Semantics.user.lastChangedBy: true
     last_changed_by,
     @Semantics.systemDateTime.lastChangedAt: true
     last changed at,
```

```
/* Public associations */
   _Agency,
   _Customer,
   _Currency
}
```

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

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

