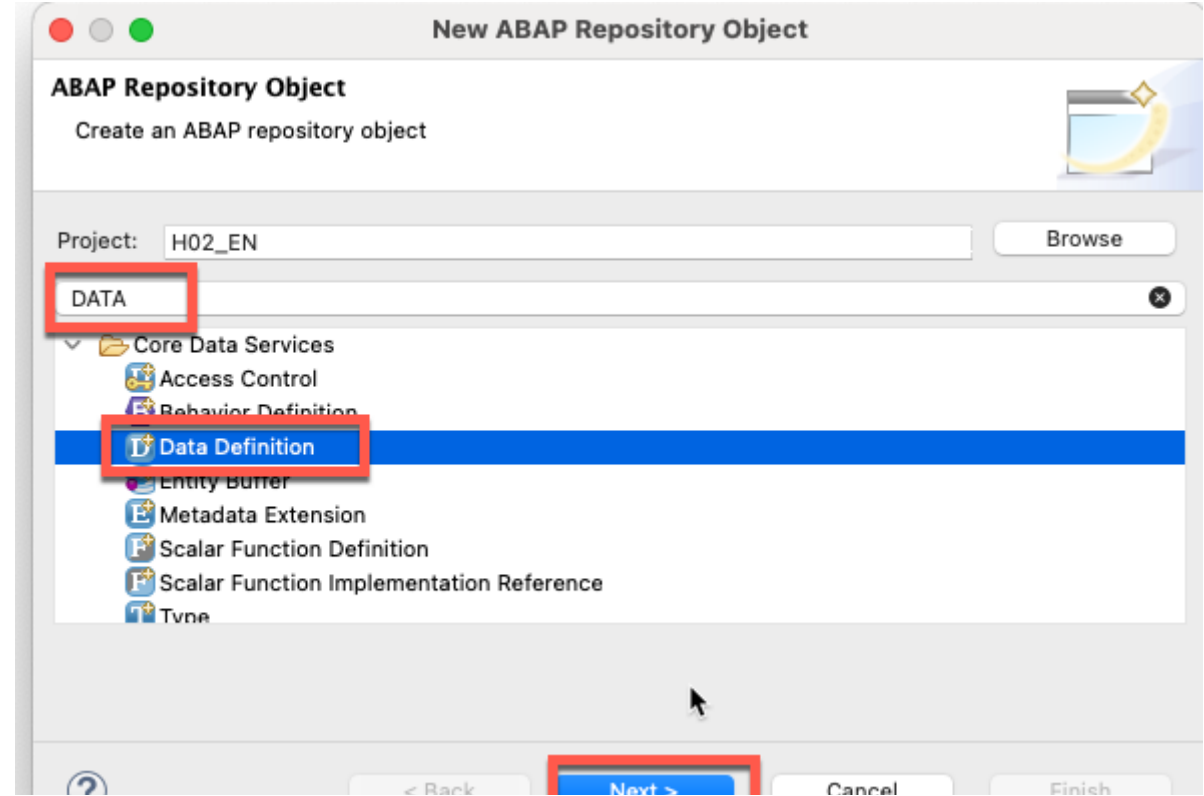
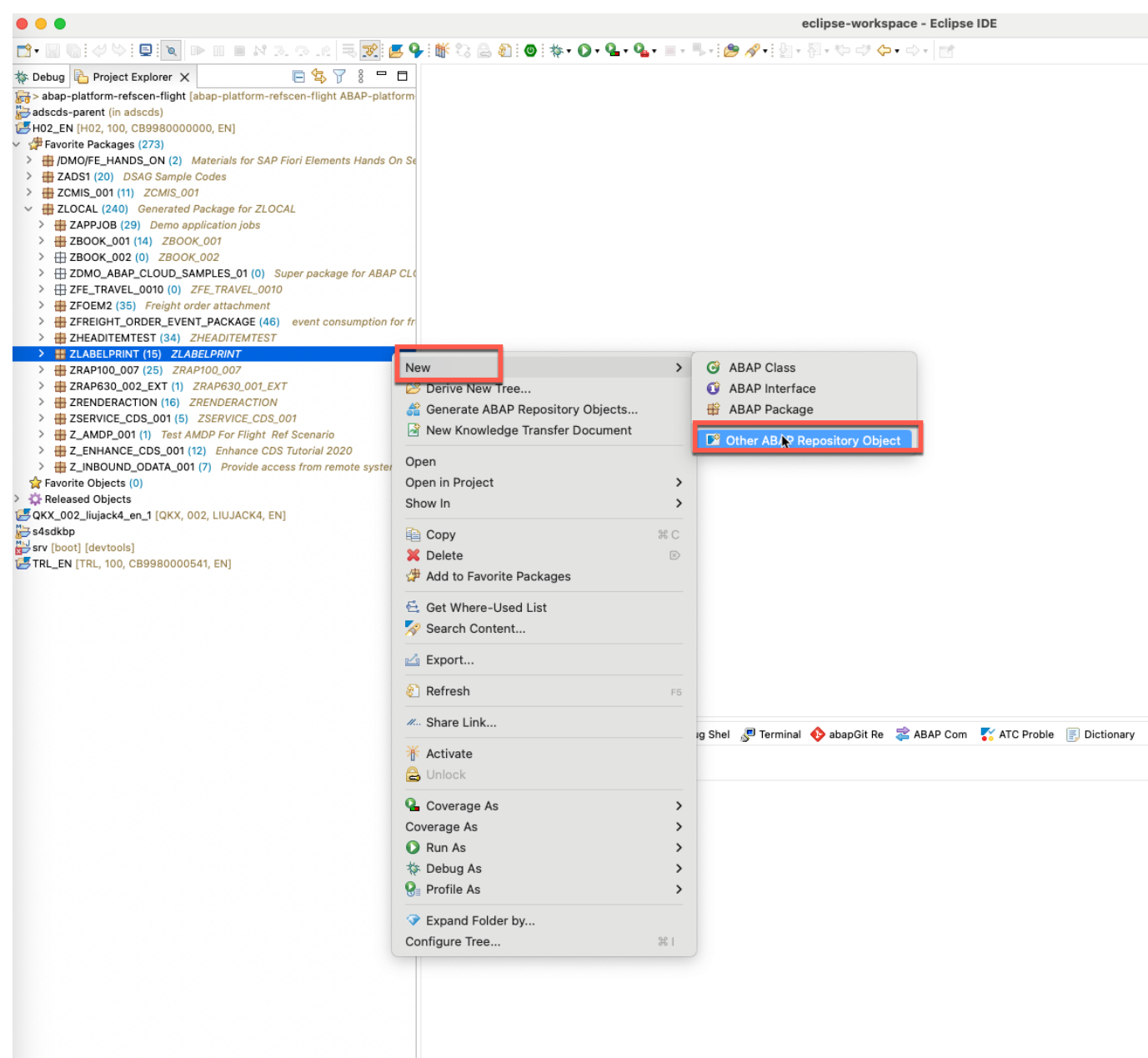


step 1:Create Custom Entity for Outbound Delivery Header



Next >

Cancel

New Data Definition

Data Definition

Create a data definition

D

Project: *

H02_EN

Browse...

Package: *

ZLABELPRINT

Browse...

☐ Add to favorite packages

Name: *

ZOBJ_DN

Description: *

ZOBJ_DN

Original Language:

EN

Referenced Object:

Browse...

?

< Back

Next >

Cancel

Finish

New Data Definition

Select Transport Request

For ZOBJ_DN1 (DDLs), the selected transport request will be used

Choose from requests in which I am involved

Configure Columns

type filter text

Transport Request	Owner	Target	Description	CTS P
H02K900055	CB9980000000 (J		app job	
H02K900053	CB9980000000 (J		ZLABELPRINT_PACKAGE	
H02K900049	CB9980000000 (J		ZLE_TRAVEL_0010	
H02K900047	CB9980000000 (J		ZERVICE_CDS001	
H02K900045	CB9980000000 (J		ZRAP630_002_EXT	
H02K900043	CB9980000000 (J		Provide access from remote system - OData	

Create a new request

Request Description: *

CTS Project:

Browse...

Enter a request number

Request Number:

Browse...

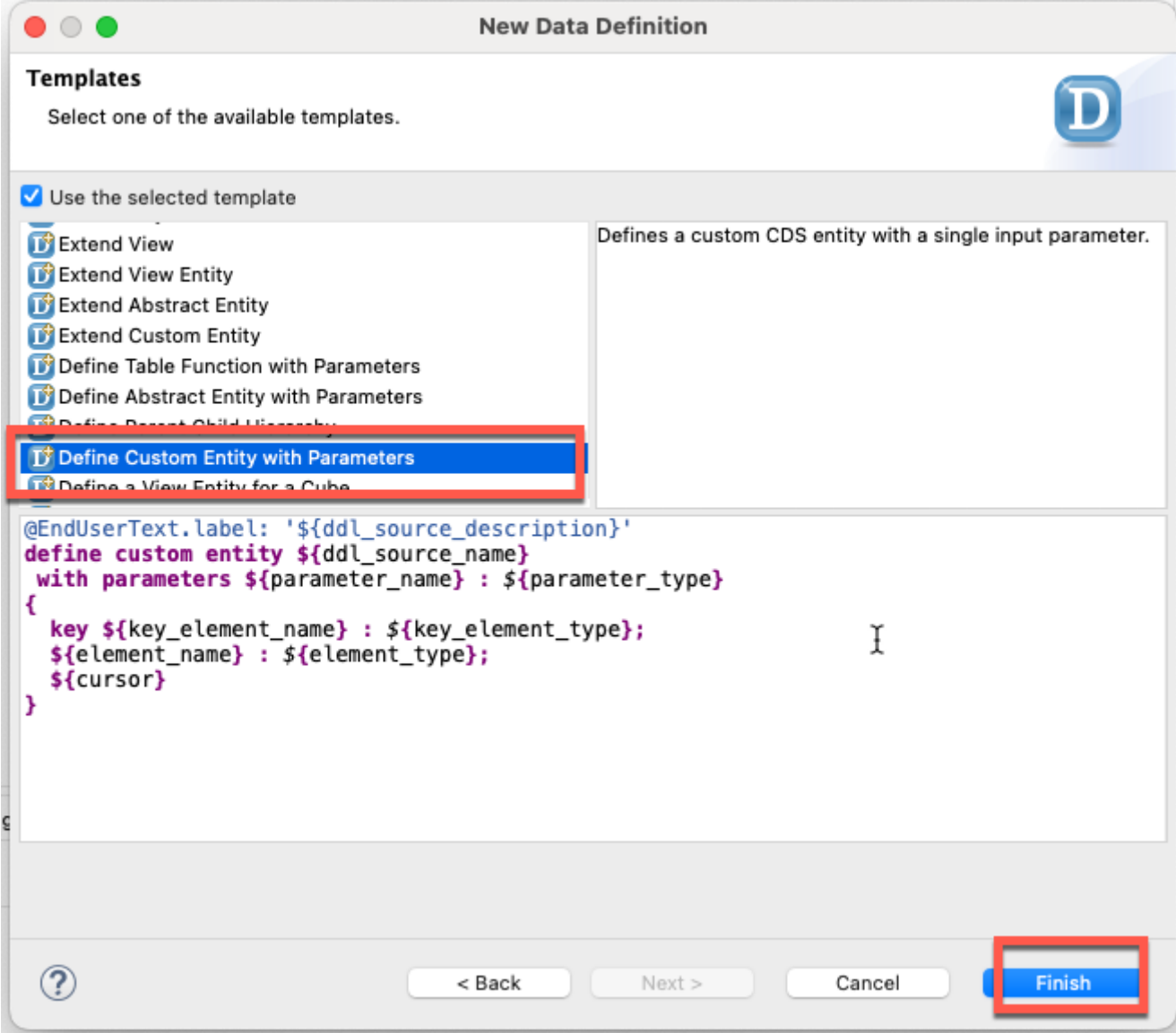
< Back

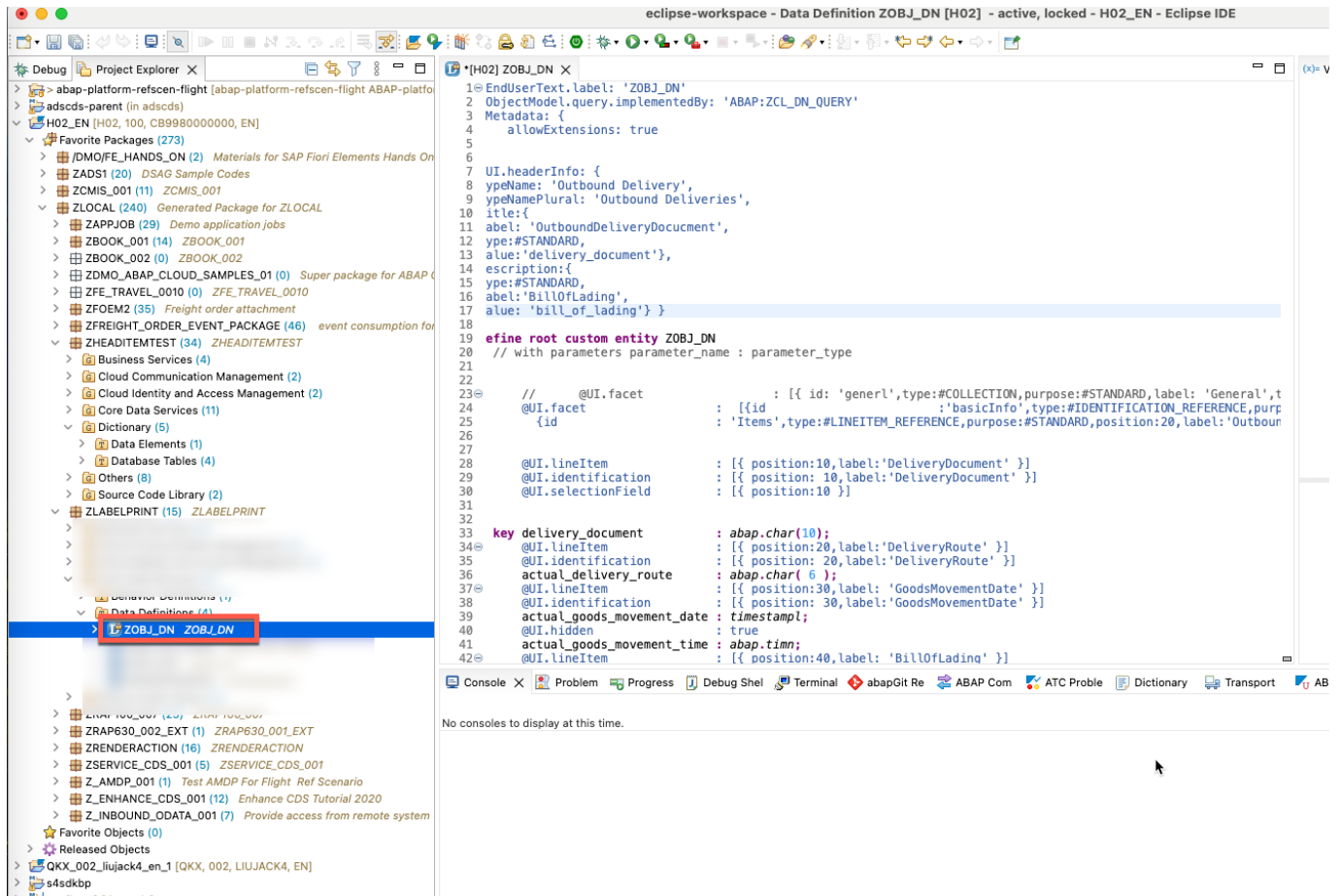
Next >

Cancel

Finish

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Adjust the data definition ZOBJ_DN with the following code:

```

@EndUserText.label: 'ZOBJ_DN'
@ObjectModel.query.implementedBy: 'ABAP:ZCL_DN_QUERY'
@Metadata: {
  allowExtensions: true
}

@UI.headerInfo: {
  typeName: 'Outbound Delivery',
  typeNamePlural: 'Outbound Deliveries',
  title:{
    label: 'OutboundDeliveryDocument',
    type:#STANDARD,
    value:'delivery_document'},
  description:{
    type:#STANDARD,
    label:'BillOfLading',
    value: 'bill_of_lading' } }

define root custom entity ZOBJ_DN
  // with parameters parameter_name : parameter_type
{

  //      @UI.facet                      : [{ id:
'general',type:#COLLECTION,purpose:#STANDARD,label:
'General',targetQualifier: 'general',parentId:

```

```

    ',position:10,isPartOfPreview:true },
      @UI.facet                                : [{id
: 'basicInfo',type:#IDENTIFICATION_REFERENCE,purpose:#STANDARD,label:'Basic
e Information',position:10,isPartOfPreview:true},
      {id
: 'Items',type:#LINEITEM_REFERENCE,purpose:#STANDARD,position:20,label:'Outb
ound Delivery Items',targetElement: '_items'}]

      @UI.lineItem                            : [{ position:10,label:'DeliveryDocument'
}]
      @UI.identification                      : [{ position:
10,label:'DeliveryDocument' }]
      @UI.selectionField                     : [{ position:10 }]

      key delivery_document                  : abap.char(10);
      @UI.lineItem                          : [{ position:20,label:'DeliveryRoute' }]
      @UI.identification                    : [{ position: 20,label:'DeliveryRoute'
}]
      actual_delivery_route                  : abap.char( 6 );
      @UI.lineItem                          : [{ position:30,label:
'GoodsMovementDate' }]
      @UI.identification                    : [{ position:
30,label:'GoodsMovementDate' }]
      actual_goods_movement_date             : timestamp;
      @UI.hidden                            : true
      actual_goods_movement_time             : abap.timn;
      @UI.lineItem                          : [{ position:40,label: 'BillOfLading' }]
      @UI.identification                    : [{ position: 40,label:'BillOfLading' }]
      bill_of_lading                        : abap.char( 35 );
      @UI.lineItem                          : [{ position:50,label:
'BillingDocumentDate' }]
      @UI.identification                    : [{ position:
50,label:'BillOfDocumentDate' }]
      billing_document_date                  : timestamp;
      @UI.hidden                            : true
      complete_delivery_is_defin             : abap_boolean;
      @UI.lineItem                          : [{ position:60,label:
'ConfirmationTime' }]
      @UI.identification                    : [{ position: 60,label:'ConfirmTime' }]
      confirmation_time                      : abap.timn;
      @UI.lineItem                          : [{ position:70,label: 'CreatedByUser'
}]
      @UI.identification                    : [{ position: 70,label:'CreatedByUser'
}]
      created_by_user                        : abap.char( 12 );
      @UI.lineItem                          : [{ position:80,label: 'CreationDate' }]
      @UI.identification                    : [{ position: 80,label:'CreationDate' }]
      creation_date                         : timestamp;
      creation_time                         : abap.timn;
      customer_group                        : abap.char(2);
      delivery_block_reason                 : abap.char(2);
      @UI.lineItem                          : [{ position:90,label: 'DeliverDate' }]

```

```

@UI.identification      : [{ position: 90,label:'DeliverDate' }]
@UI.selectionField     : [{ position:60 }]
delivery_date          : timestampl;
@UI.lineItem           : [{ position:100,label:
'DeliverDocumentBySuppl' }]
@UI.identification     : [{ position:
100,label:'DeliverDocumentBySuppl' }]
delivery_document_by_suppl : abap.char(35);
delivery_document_type  : abap.char(4);
delivery_is_in_plant    : abap_boolean;
delivery_priority       : abap.char(2);
delivery_time           : timestampl;
delivery_version        : abap.char(4);
depreciation_percentage : abap.dec( 3, 2 );
distr_status_by_decentrali : abap.char(1);
document_date           : timestampl;
etag                    : abap.string;
external_identification_ty : abap.char(1);
external_transport_system : abap.char(5);
factory_calendar_by_custom : abap.char(2);
goods_issue_or_receipt_sli : abap.char(10);
goods_issue_time        : abap.timn;
handling_unit_in_stock  : abap.char(1);
hdr_general_incompletion_s : abap.char(1);
hdr_goods_mvt_incompletion : abap.char(1);
header_billg_incompletion : abap.char(1);
header_billing_block_reaso : abap.char(2);
header_deliv_incompletion : abap.char(1);
header_gross_weight     : abap.dec(11,3);
header_net_weight       : abap.dec(11,3);
header_packing_incompletio : abap.char(1);
header_pickg_incompletion : abap.char(1);
header_volume           : abap.dec(11,3);
header_volume_unit      : abap.char( 3 );
header_weight_unit      : abap.char( 3 );
incoterms_classification : abap.char( 3 );
incoterms_transfer_locatio : abap.char(28);
intercompany_billing_date : timestampl;
internal_financial_documen : abap.char(10);
is_delivery_for_single_war : abap.char(1);
is_export_delivery       : abap.char(1);
last_change_date         : timestampl;
last_changed_by_user     : abap.char(12);
loading_date             : timestampl;
loading_point           : abap.char(2);
loading_time            : abap.timn;
means_of_transport       : abap.char(20);
means_of_transport_ref_mat : abap.char(40);
means_of_transport_type  : abap.char(4);
order_combination_is_allow : abap_boolean;
order_id                 : abap.char(12);
overall_deliv_conf_status : abap.char(1);
overall_deliv_reltd_billg : abap.char(1);
overall_goods_movement_sta : abap.char(1);

```



```

overall_intco_billing_stat : abap.char(1);
overall_packing_status    : abap.char(1);
overall_picking_conf_statu : abap.char(1);
overall_picking_status    : abap.char(1);
overall_proof_of_delivery : abap.char(1);
overall_sdprocess_status  : abap.char(1);
overall_warehouse_activity : abap.char(1);
ovrl_itm_deliv_incompletio : abap.char(1);
ovrl_itm_gds_mvt_incomplet : abap.char(1);
ovrl_itm_general_incomplet : abap.char(1);
ovrl_itm_packing_incomplet : abap.char(1);
ovrl_itm_picking_incomplet : abap.char(1);
payment_guarantee_procedur : abap.char(6);
picked_items_location      : abap.char(20);
picking_date               : timestamp;
picking_time               : abap.timn;
planned_goods_issue_date   : timestamp;
proof_of_delivery_date     : timestamp;
proposed_delivery_route    : abap.char(6);
receiving_plant            : abap.char(4);
receivinglocationtimezone  : abap.char(6);
route_schedule             : abap.char(10);
sales_district             : abap.char(6);
sales_office               : abap.char(4);
@UI.lineItem               : [{ position:150,label:
'SalesOrganization' }]
@UI.identification         : [{ position:
150,label:'SalesOrganization' }]
@UI.selectionField         : [{ position:50 }]
sales_organization         : abap.char(4);
sddocument_category       : abap.char(4);

@UI.lineItem               : [{ position:140,label: 'ShipToParty' }]
@UI.identification         : [{ position: 140,label:'ShipToParty' }]
@UI.selectionField         : [{ position:40 }]
ship_to_party              : abap.char(10);
shipment_block_reason      : abap.char(2);
shipping_condition         : abap.char(2);
@UI.lineItem               : [{ position:120,label: 'ShippingPoint'
}]
@UI.identification         : [{ position: 120,label:'ShippingPoint'
}]
@UI.selectionField         : [{ position:20 }]
shipping_point             : abap.char(4);
@UI.lineItem               : [{ position:130,label: 'ShippingType'
}]
@UI.identification         : [{ position: 130,label:'ShippingType'
}]
@UI.selectionField         : [{ position:30 }]
shipping_type              : abap.char(2);
sold_to_party              : abap.char(10);
special_processing_code     : abap.char(4);
statistics_currency        : abap.char(5);
supplier                   : abap.char(10);

```

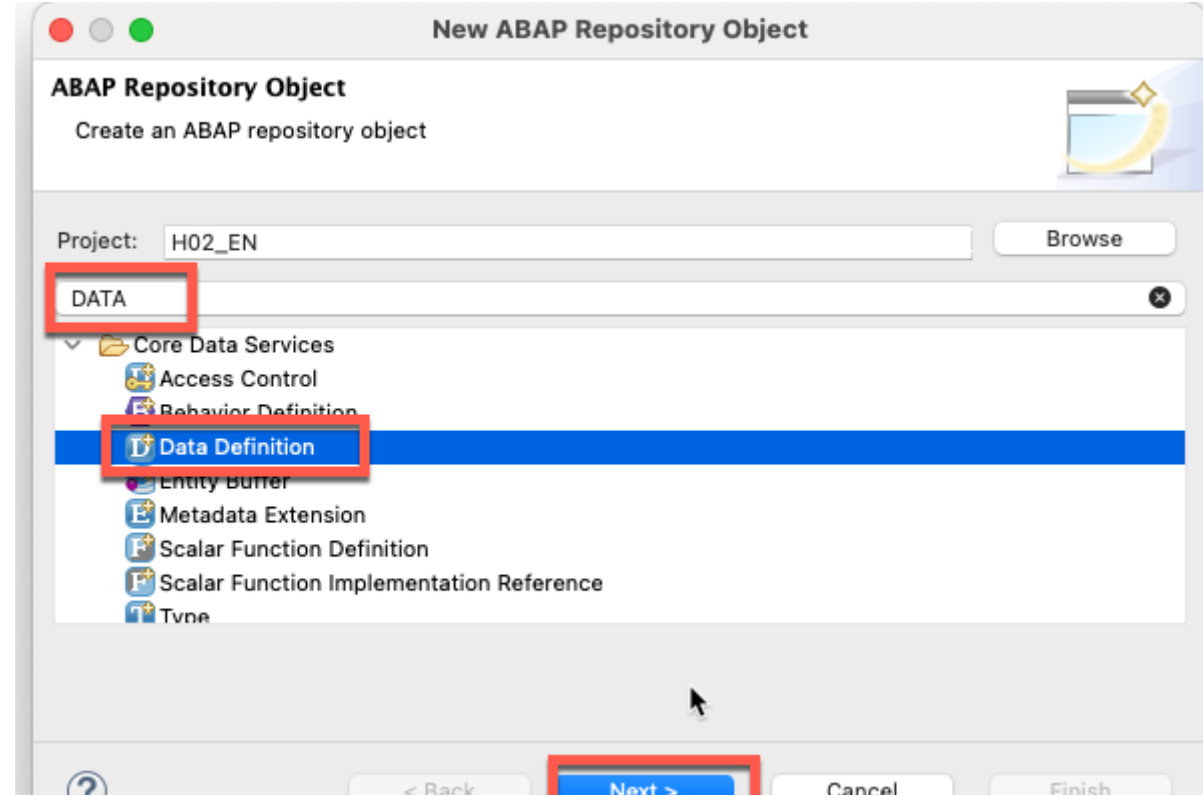
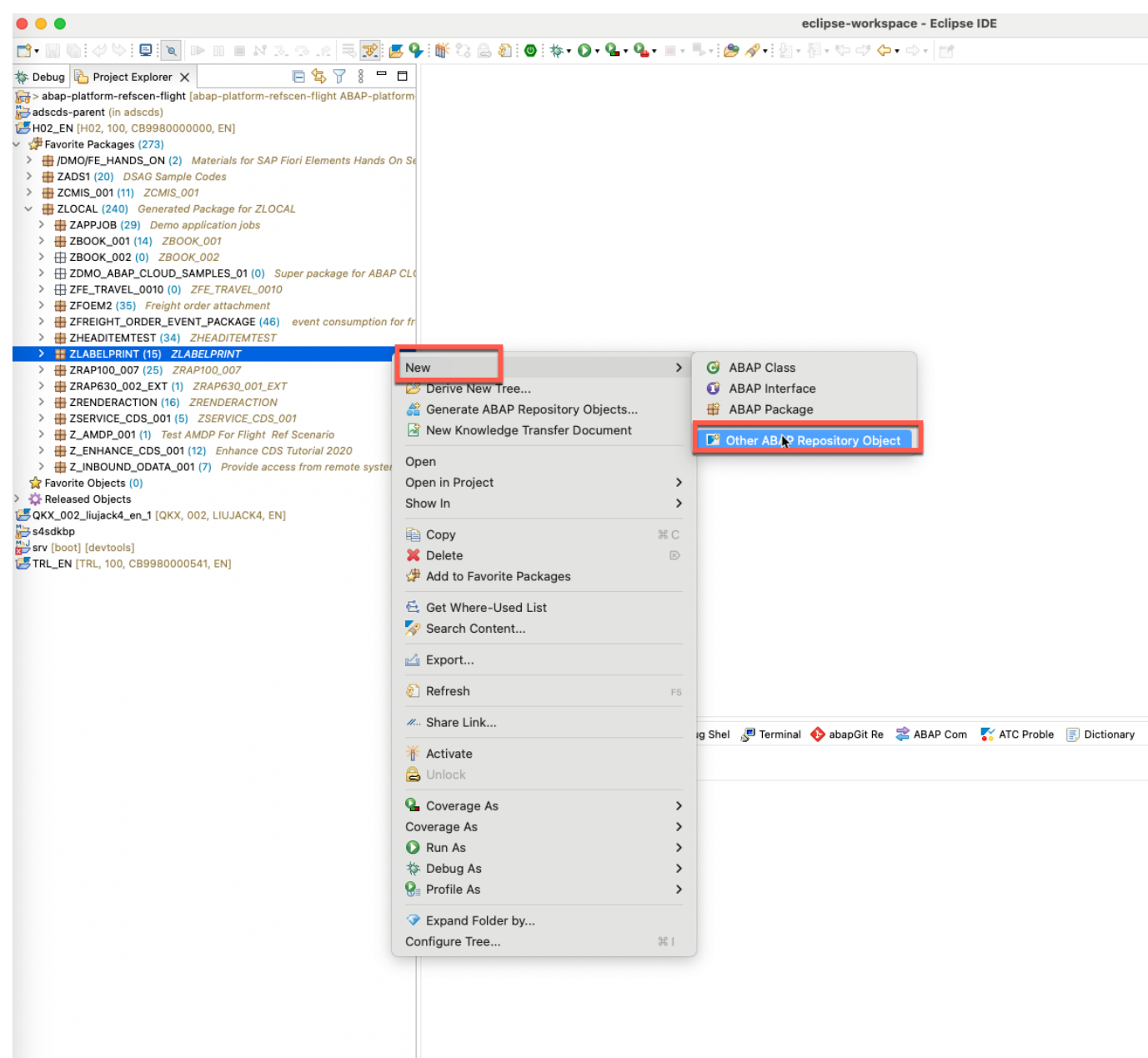
```
total_block_status      : abap.char(1);
total_credit_check_status : abap.char(1);
@UI.lineItem            : [{ position:110,label:
'TotalNumberOfPackage' }]
@UI.identification      : [{ position:
110,label:'TotalNumberOfPackage' }]

total_number_of_package : abap.char(5);
transaction_currency    : abap.char(5);
transportation_group    : abap.char(4);
unloading_point_name    : abap.char(25);
warehouse               : abap.char(3);
warehouse_gate          : abap.char(3);
warehouse_staging_area  : abap.char(10);
_items                 : composition [0..*] of ZOBJ_DN_ITEMS;

}
```

push **command+s** and **command+f3** to save and activate the code .

step 2:Create Custom Entity for Outbound Delivery items



New Data Definition

Create a data definition

Project: * H02_EN Browse...

Package: * ZLABELPRINT Browse...

☐ Add to favorite packages

Name: * ZOBJ_DN_ITEMS

Description: * ZOBJ_DN_ITEMS

Original Language: EN

Referenced Object: Browse...

< Back Next > Cancel Finish

New Data Definition

Select Transport Request

For ZOBJ_DN1 (DDLs), the selected transport request will be used

Choose from requests in which I am involved

Configure Columns

type filter text

Transport Request	Owner	Target	Description	CTS P
H02K900055	CB9980000000 (J		app job	
H02K900053	CB9980000000 (J		ZLABELPRINT_PACKAGE	
H02K900049	CB9980000000 (J		ZLE_TRAVEL_CDS	
H02K900047	CB9980000000 (J		ZSERVICE_CDS001	
H02K900045	CB9980000000 (J		ZRAP630_002_EXT	
H02K900043	CB9980000000 (J		Provide access from remote system - OData	

Create a new request

Request Description: *

CTS Project:

Browse...

Enter a request number

Request Number:

Browse...

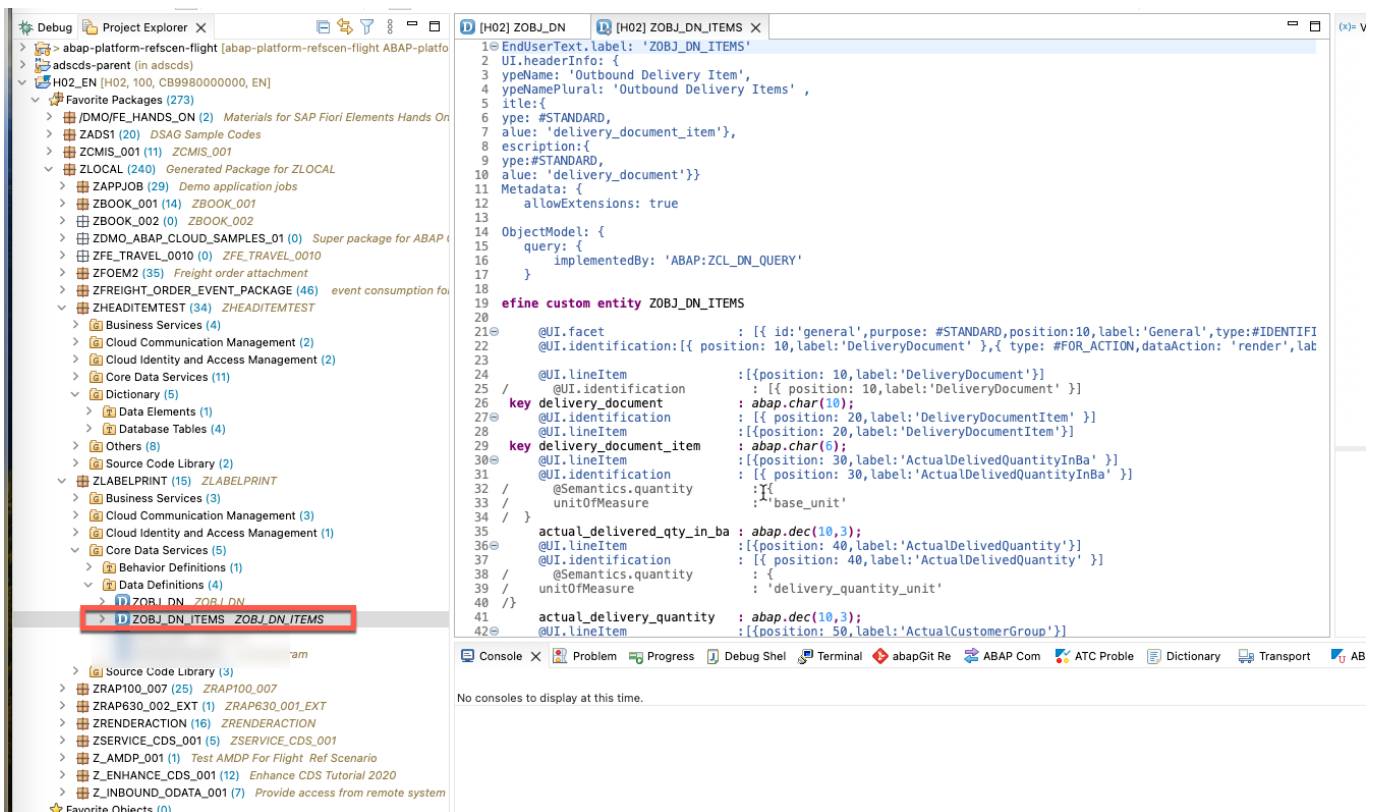
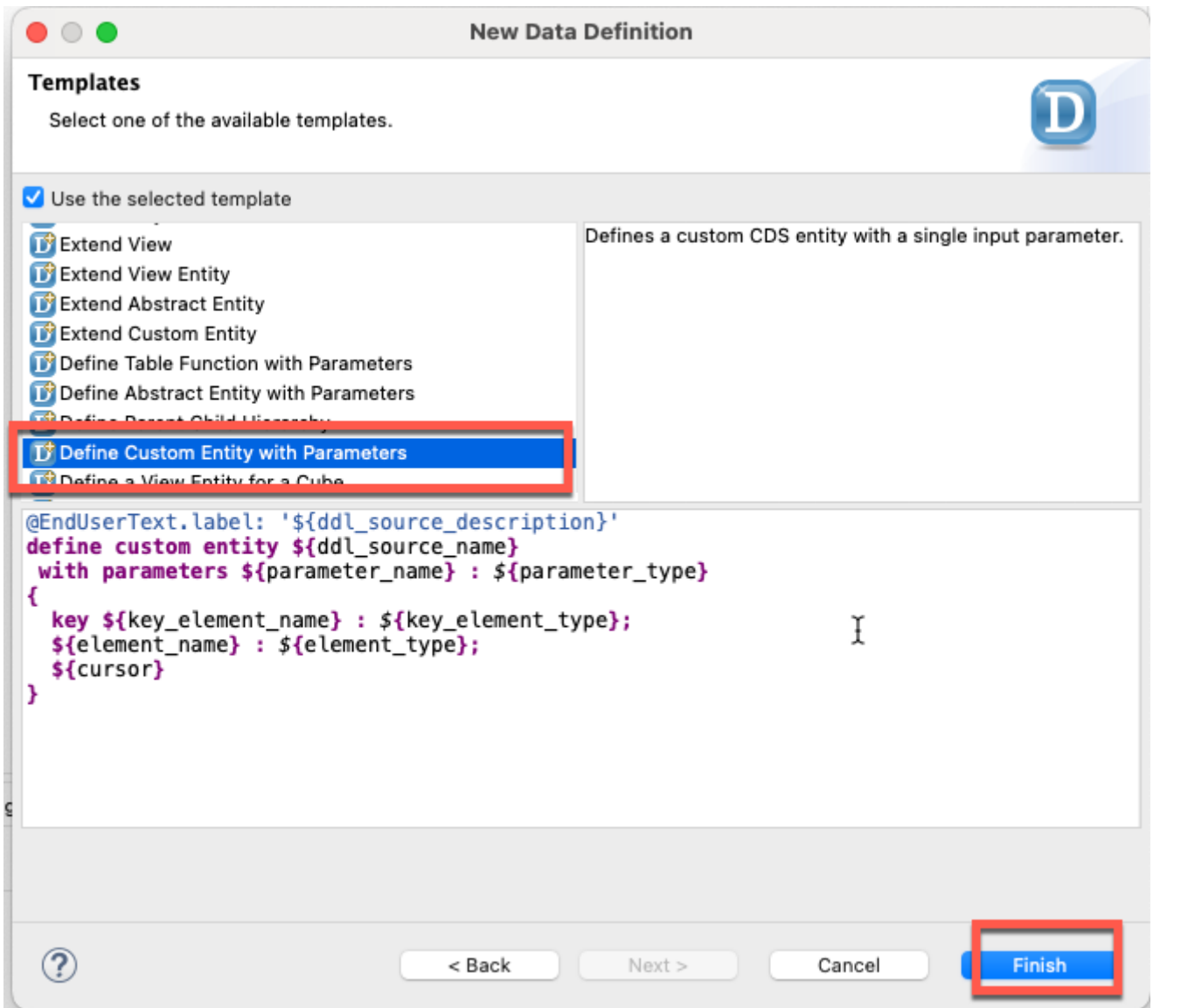
< Back

Next >

Cancel

Finish

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Adjust the data definition ZOBJ_DN_ITEMS with the following code:

```

@EndUserText.label: 'ZOBJ_DN_ITEMS'
@UI.headerInfo: {
  typeName: 'Outbound Delivery Item',
  typeNamePlural: 'Outbound Delivery Items' ,
  title:{
    type: #STANDARD,
    value: 'delivery_document_item'},
  description:{
    type:#STANDARD,
    value: 'delivery_document'}}
@Metadata: {
  allowExtensions: true
}
@ObjectModel: {
  query: {
    implementedBy: 'ABAP:ZCL_DN_QUERY'
  }
}
define custom entity ZOBJ_DN_ITEMS
{
  @UI.facet                                : [{ id:'general',purpose:
#STANDARD,position:10,label:'General',type:#IDENTIFICATION_REFERENCE }]
  @UI.identification:[{ position: 10,label:'DeliveryDocument' },{
type: #FOR_ACTION,dataAction: 'render',label:'Render',position:15 }]

  @UI.lineItem                             :[{position:
10,label:'DeliveryDocument'}]
  //    @UI.identification                   : [{ position:
10,label:'DeliveryDocument' }]
  key delivery_document                    : abap.char(10);
  @UI.identification                       : [{ position:
20,label:'DeliveryDocumentItem' }]
  @UI.lineItem                             :[{position:
20,label:'DeliveryDocumentItem'}]
  key delivery_document_item               : abap.char(6);
  @UI.lineItem                             :[{position:
30,label:'ActualDelivedQuantityInBa' }]
  @UI.identification                       : [{ position:
30,label:'ActualDelivedQuantityInBa' }]
  //    @Semantics.quantity                  : {
  //    unitOfMeasure                        : 'base_unit'
  //  }
  actual_delivered_qty_in_ba : abap.dec(10,3);
  @UI.lineItem               :[{position:
40,label:'ActualDelivedQuantity'}]
  @UI.identification          : [{ position:
40,label:'ActualDelivedQuantity' }]
  //    @Semantics.quantity    : {
  //    unitOfMeasure           : 'delivery_quantity_unit'
  //}
  actual_delivery_quantity    : abap.dec(10,3);
  @UI.lineItem                :[{position:

```

```

50,label:'ActualCustomerGroup' }}
    @UI.identification      : [{ position:
50,label:'ActualCustomerGroup' }]
    additional_customer_group : abap.char(3);
    @UI.lineItem            : [{position: 60}]
    additional_customer_grou_2 : abap.char(3);
    additional_customer_grou_3 : abap.char(3);
    additional_customer_grou_4 : abap.char(3);
    additional_customer_grou_5 : abap.char(3);
    additional_material_group  : abap.char(3);
    additional_material_grou_2 : abap.char(3);
    additional_material_grou_3 : abap.char(3);
    additional_material_grou_4 : abap.char(3);
    additional_material_grou_5 : abap.char(3);
    alternate_product_number  : abap.char(40);
    @UI.lineItem              : [{position: 60,label:'BaseUnit' }]
    @UI.identification        : [{ position: 60,label:'BaseUnit' }]
//    @Semantics.unitOfMeasure : true
    base_unit                 : abap.char(3);
    @UI.lineItem              : [{position: 70,label:'Batch' }]
    @UI.identification        : [{ position: 70,label:'Batch' }]
    batch                     : abap.char(10);
    @UI.lineItem              : [{position: 80,label:'BatchBySupplier' }]
    @UI.identification        : [{ position: 80,label:'BatchBySupplier'
}}
    batch_by_supplier         : abap.char(15);
    @UI.lineItem              : [{position:
90,label:'BatchClassification' }}
    @UI.identification        : [{ position:
90,label:'BatchClassification' }]
    batch_classification      : abap.char(18);
    bomexplosion               : abap.char(8);
    business_area             : abap.char(4);
    consumption_posting       : abap.char(1);
    controlling_area          : abap.char(4);
    cost_center                : abap.char(10);
    created_by_user            : abap.char(12);
    creation_date              : timestamp;
    creation_time              : abap.timn;
    cust_engineering_chg_statu : abap.char(17);

    delivery_document_item_cat : abap.char(4);
    delivery_document_item_tex : abap.char(40);
    delivery_group             : abap.char(3);
    @UI.lineItem               : [{position: 130,label:'QuantityUnit' }]
    @UI.identification         : [{ position: 130,label:'QuantityUnit'
}}
//    @Semantics.unitOfMeasure : true
    delivery_quantity_unit     : abap.char(3);
    delivery_related_billing_s : abap.char(1);
    delivery_to_base_quantity  : abap.dec(3,0);
    delivery_to_base_quantit_2 : abap.dec(3,0);
    delivery_version           : abap.char(4);
    department_classification  : abap.char(4);

```



```

distribution_channel      : abap.char(2);
division                  : abap.char(2);
eudelivery_item_arcstatus : abap.char(1);
fixed_shipg_procg_duration : abap.dec(3,2);
glaccount                  : abap.char(10);
goods_movement_reason_code : abap.char(4);
goods_movement_status     : abap.char(1);
goods_movement_type       : abap.char(3);
higher_lvl_itm_of_bat_splt : abap.char(6);
higher_level_item         : abap.char(6);
inspection_lot             : abap.char(12);
inspection_partial_lot     : abap.char(6);
intercompany_billing_statu : abap.char(1);
international_article_numb : abap.char(18);
inventory_special_stock_ty : abap.char(1);
inventory_valuation_type   : abap.char(10);
is_completely_delivered    : abap_boolean;
is_not_goods_movements_rel : abap.char(1);
is_separate_valuation      : abap_boolean;
issg_or_rcvg_batch         : abap.char(10);
issg_or_rcvg_material      : abap.char(40);
issg_or_rcvg_spcl_stock_in : abap.char(1);
issg_or_rcvg_stock_categor : abap.char(1);
issg_or_rcvg_valuation_typ : abap.char(10);
issuing_or_receiving_plant : abap.char(4);
issuing_or_receiving_stora : abap.char(4);
item_billing_block_reason  : abap.char(2);
item_billing_incompletion  : abap.char(1);
item_delivery_incompletion : abap.char(1);
item_gds_mvt_incompletion  : abap.char(1);
item_general_incompletion  : abap.char(1);
item_gross_weight          : abap.dec(11,3);
item_is_billing_relevant   : abap.char(1);
item_net_weight            : abap.dec(11,3);
item_packing_incompletion  : abap.char(1);
item_picking_incompletion  : abap.char(1);
item_volume                : abap.dec(11,3);
item_volume_unit           : abap.char(3);
item_weight_unit           : abap.char(3);
last_change_date           : timestamp;
loading_group              : abap.char(4);
manufacture_date           : timestamp;
@UI.lineItem               : [{position: 100,label:'Material'}]
@UI.identification         : [{ position: 100,label:'Material' }]
material                   : abap.char(40);
material_by_customer       : abap.char(35);
material_freight_group     : abap.char(8);
material_group             : abap.char(9);
material_is_batch_managed  : abap_boolean;

material_is_int_batch_mana : abap_boolean;
@UI.lineItem               : [{position:
110,label:'NumberOfSerialNumbers'}]
@UI.identification         : [{ position:

```

```

110, label: 'NumberOfSerialNumbers' }]
    number_of_serial_numbers : abap.int4;
    order_id                 : abap.char(12);
    order_item               : abap.char(4);
    original_delivery_quantity : abap.dec(10,3);
    originally_requested_mater : abap.char(40);
    overdeliv_tolrtd_lmt_ratio : abap.dec(2,1);
    packing_status           : abap.char(1);
    partial_delivery_is_allowe : abap.char(1);
    payment_guarantee_form    : abap.char(2);
    picking_confirmation_statu : abap.char(1);
    picking_control           : abap.char(1);
    picking_status            : abap.char(1);
    @UI.lineItem              : [{position: 120, label: 'Plant'}]
    @UI.identification         : [{ position: 120, label: 'Plant' }]
    plant                     : abap.char(4);
    primary_posting_switch     : abap.char(1);
    product_availability_date  : timestamp;
    product_availability_time  : abap.timn;
    product_configuration      : abap.char(18);
    product_hierarchy_node     : abap.char(18);
    profitability_segment      : abap.char(10);
    profit_center              : abap.char(10);
    proof_of_delivery_relevanc : abap.char(1);
    proof_of_delivery_status   : abap.char(1);
    quantity_is_fixed          : abap_boolean;
    receiving_point            : abap.char(25);
    reference_document_logical  : abap.char(10);
    reference_sddocument       : abap.char(10);
    reference_sddocument_categ : abap.char(4);
    reference_sddocument_item  : abap.char(6);
    retail_promotion           : abap.char(10);
    sales_document_item_type    : abap.char(1);
    sales_group                 : abap.char(3);
    sales_office                : abap.char(4);
    sddocument_category        : abap.char(4);
    sdprocess_status           : abap.char(1);
    shelf_life_expiration_date : timestamp;
    statistics_date            : timestamp;
    stock_type                  : abap.char(1);
    storage_bin                 : abap.char(10);
    storage_location            : abap.char(4);
    storage_type                : abap.char(3);
    subsequent_movement_type    : abap.char(3);
    transportation_group        : abap.char(4);
    underdeliv_tolrtd_lmt_rati : abap.dec(2,1);
    unlimited_overdelivery_is  : abap_boolean;
    varbl_shipg_procg_duration : abap.dec(3,2);
    warehouse                   : abap.char(3);
    warehouse_activity_status   : abap.char(1);
    warehouse_staging_area      : abap.char(10);
    warehouse_stock_category    : abap.char(1);
    warehouse_storage_bin       : abap.char(10);

```

```
        _headers                : association to parent ZOBJ_DN on  
$projection.delivery_document = _headers.delivery_document;  
//        _unit:  assiation to  DM0/  
  
}
```

push **command+s** and **command+f3** to save and activate the code .