

ABAP RAP-

RESTFUL APPLICATION PROGRAMMING

PART 3

SUMMARY & COMPILATION OF MY LEARNING WITH A NUMBER OF ONLINE
COURSES & TUTORIALS INCLUDING DEVELOPED BY ME SAMPLES

eclipse2025_6_workspace - Behavior Definition ZST67_C_DB_FLIGHT [S23,100] - inactive, locked - S23_100_student067_en_1 - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer X Relation Explorer

S23_100_student067_en [S23, 100, STUDENT067, EN]
S23_100_student067_en_1 [S23, 100, STUDENT067, EN]

Local Objects (\$TMP)
Favorite Packages (8)

ZRAP100_RONASAP (8) zrap100 Package ronasa

- Core Data Services (5)
 - Behavior Definitions (2)
 - ZST67_C_DB_FLIGHT Behavior Definition
 - ZST67_I_DB_FLIGHT Behavior Definition
 - Data Definitions (2)
 - ZST67_C_DB_FLIGHT Consumption Flight
 - ZST67_I_DB_FLIGHT Interface Flight View
 - Metadata Extensions (1)
 - Dictionary (3)
 - Database Tables (2)
 - ZRAP100_ATRAV000 Travel data
 - ZST67_FLIGHT Flight Details
 - Views (1)

Favorite Objects
System Library

New Service Definition

Templates

Select one of the available templates.

Use the selected template

Name	Description
Service Definition (creation) defineService	Define Service
Service Extend (creation)	

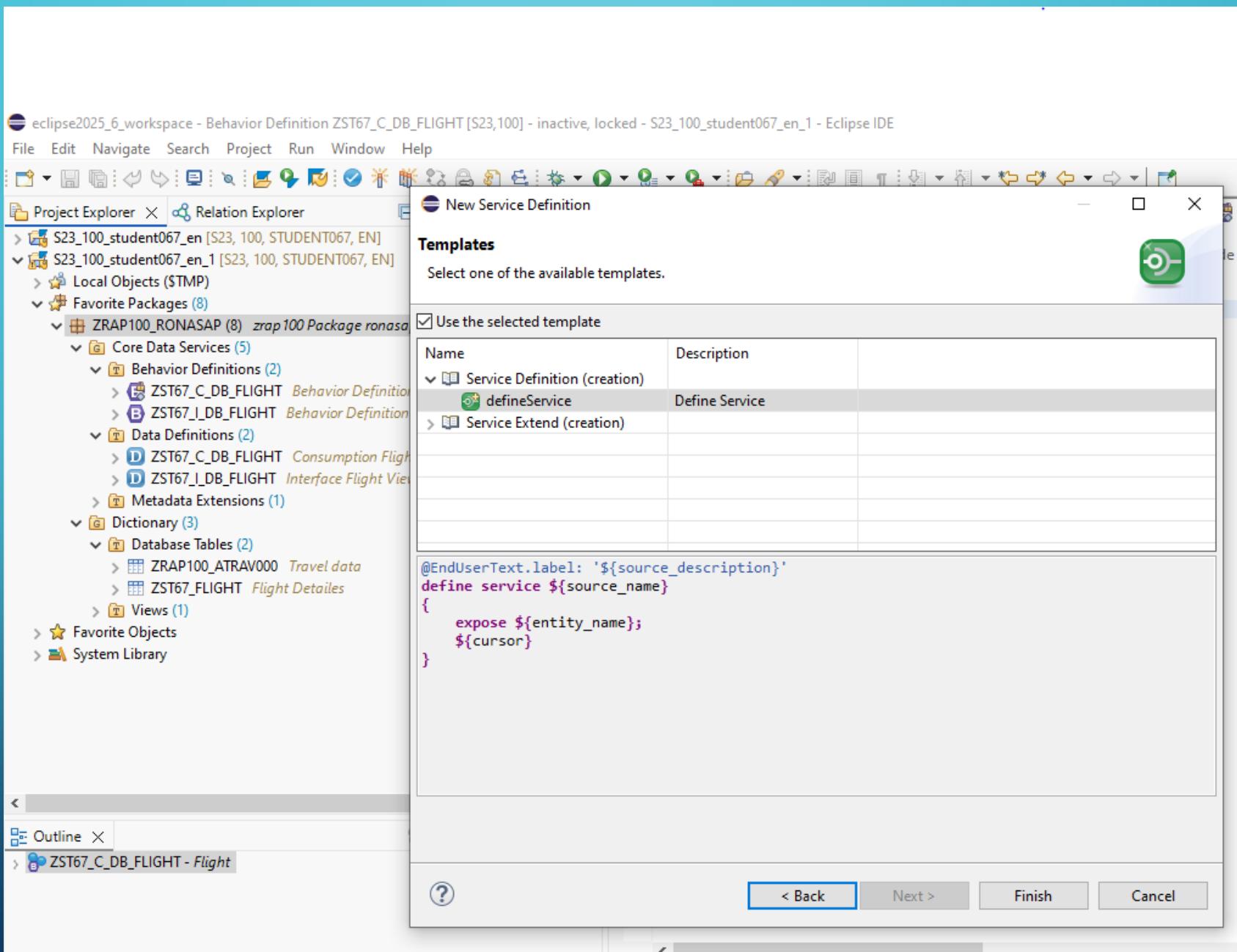
```
@EndUserText.label: '${source_description}'  
define service ${source_name}  
{  
    expose ${entity_name};  
    ${cursor}  
}
```

Outline X

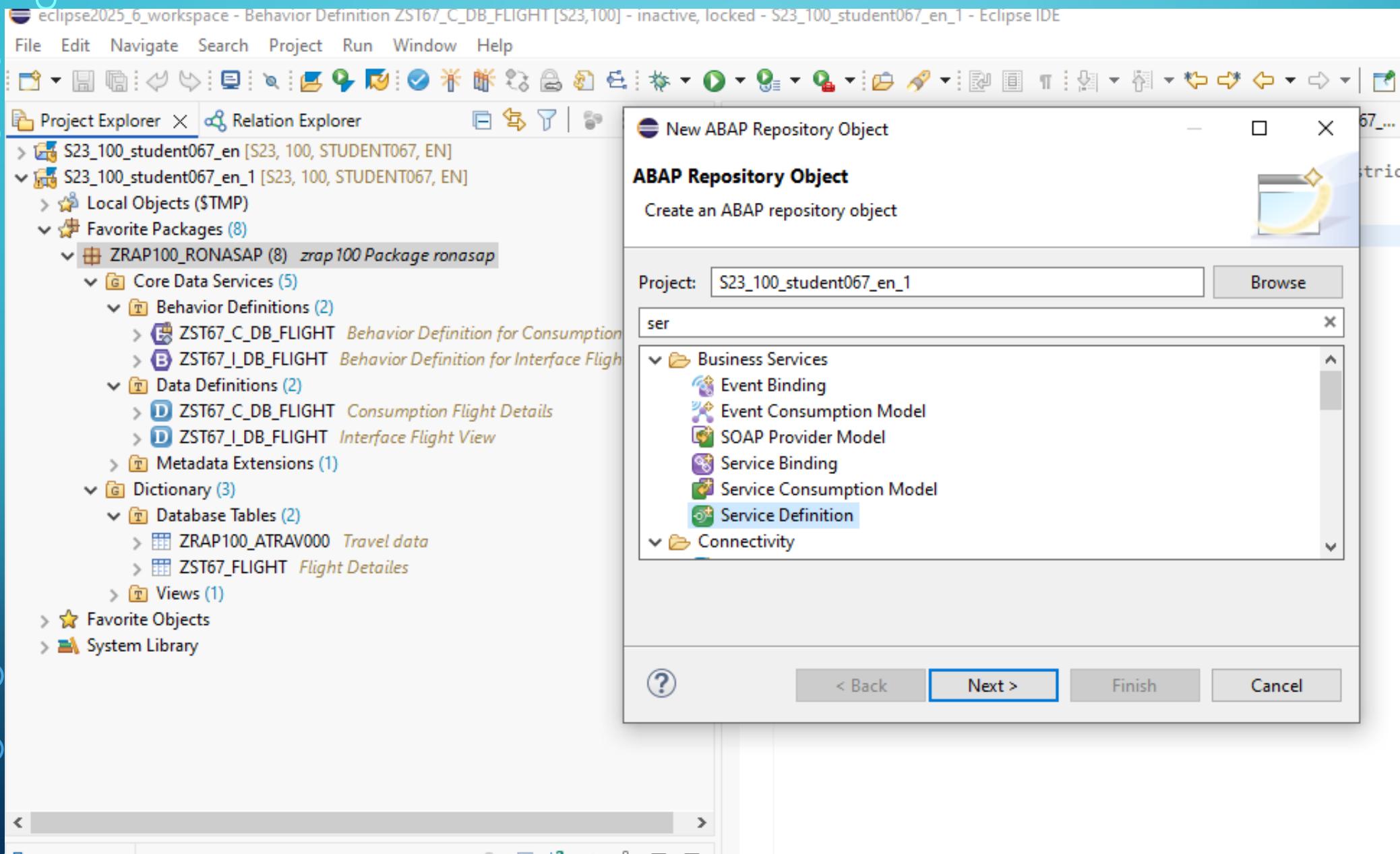
ZST67_C_DB_FLIGHT - Flight

? < Back Next > Finish Cancel

THE BELOW SYNTAX APPEARS :



NEXT STEP IS TO CREATE A SERVICE DEFINITION-



eclipse2025_6_workspace - Behavior Definition ZST67_C_DB_FLIGHT [S23,100] - inactive, locked - S23_100_student067_en_1 - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer X Relation Explorer

S23_100_student067_en [S23, 100, STUDENT067, EN]
S23_100_student067_en_1 [S23, 100, STUDENT067, EN]

Local Objects (STMP)
Favorite Packages (8)

ZRAP100_RONASAP (8) zrap100 Package ronasa

- Core Data Services (5)
 - Behavior Definitions (2)
 - ZST67_C_DB_FLIGHT Behavior Definition
 - ZST67_I_DB_FLIGHT Behavior Definition
 - Data Definitions (2)
 - ZST67_C_DB_FLIGHT Consumption Flight
 - ZST67_I_DB_FLIGHT Interface Flight View
 - Metadata Extensions (1)
- Dictionary (3)
 - Database Tables (2)
 - ZRAP100_ATRAV000 Travel data
 - ZST67_FLIGHT Flight Details
 - Views (1)

Favorite Objects
System Library

New Service Definition

Service Definition

Create a service definition

Project: * S23_100_student067_en_1 Browse...

Package: * ZRAP100_RONASAP Browse...

Add to favorite packages

Name: * zst67_flight

Description: * Flight Service Definition

Original Language: EN

Source Type:

Referenced Object: Browse...

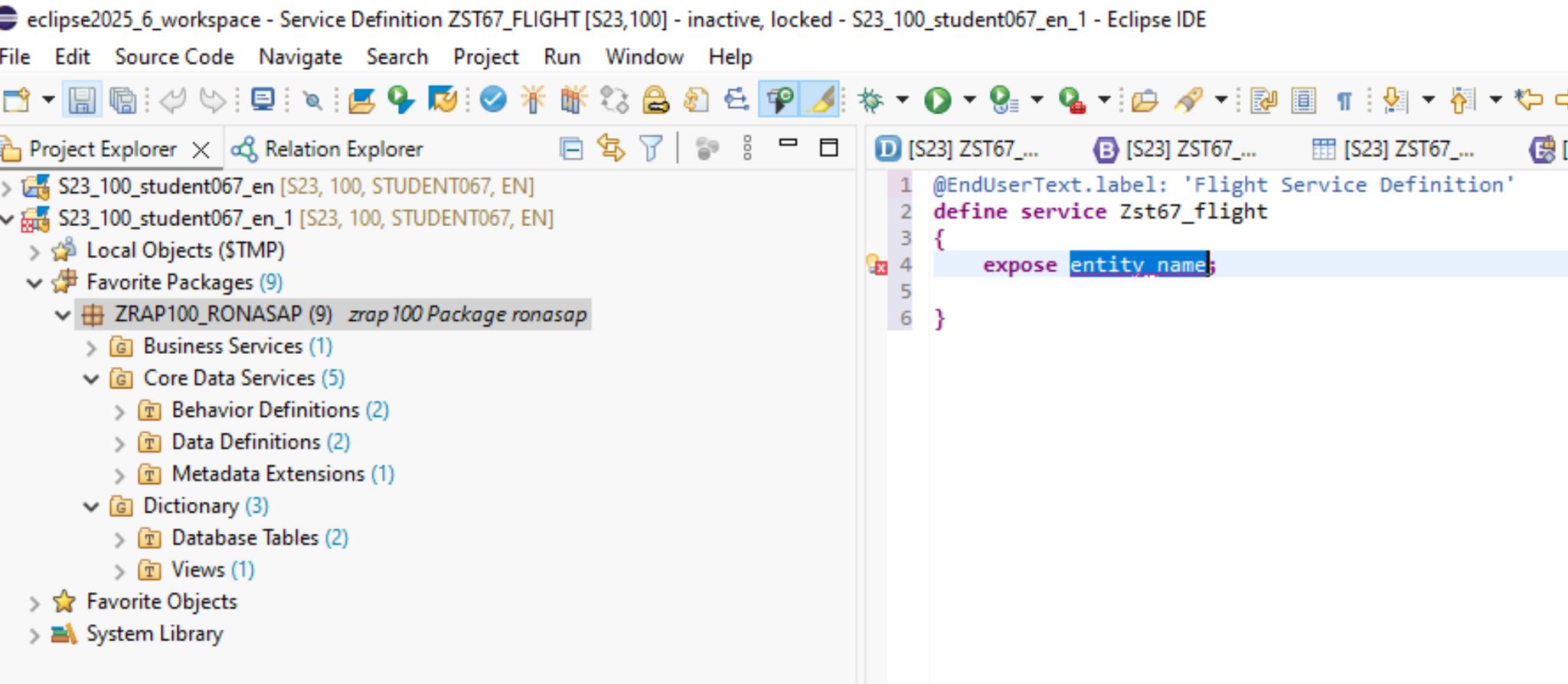
Outline X

ZST67_C_DB_FLIGHT - Flight

?

< Back Next > Finish Cancel

THE BELOW SYNTAX APPEARS-



The screenshot shows the Eclipse IDE interface with the title "eclipse2025_6_workspace - Service Definition ZST67_FLIGHT [S23,100] - inactive, locked - S23_100_student067_en_1 - Eclipse IDE". The menu bar includes File, Edit, Source Code, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations like Open, Save, Print, and others. The Project Explorer view on the left shows two projects: "S23_100_student067_en [S23, 100, STUDENT067, EN]" and "S23_100_student067_en_1 [S23, 100, STUDENT067, EN]". The "S23_100_student067_en_1" project is expanded, showing "Local Objects (\$TMP)" and "Favorite Packages (9)". One package, "ZRAP100_RONASAP (9) zrap 100 Package ronasap", is selected and expanded, revealing "Business Services (1)", "Core Data Services (5)", "Dictionary (3)", and "Favorite Objects". The "Core Data Services (5)" section contains "Behavior Definitions (2)", "Data Definitions (2)", and "Metadata Extensions (1)". The "Dictionary (3)" section contains "Database Tables (2)" and "Views (1)". The "System Library" is also listed. The right-hand editor area displays the service definition code:

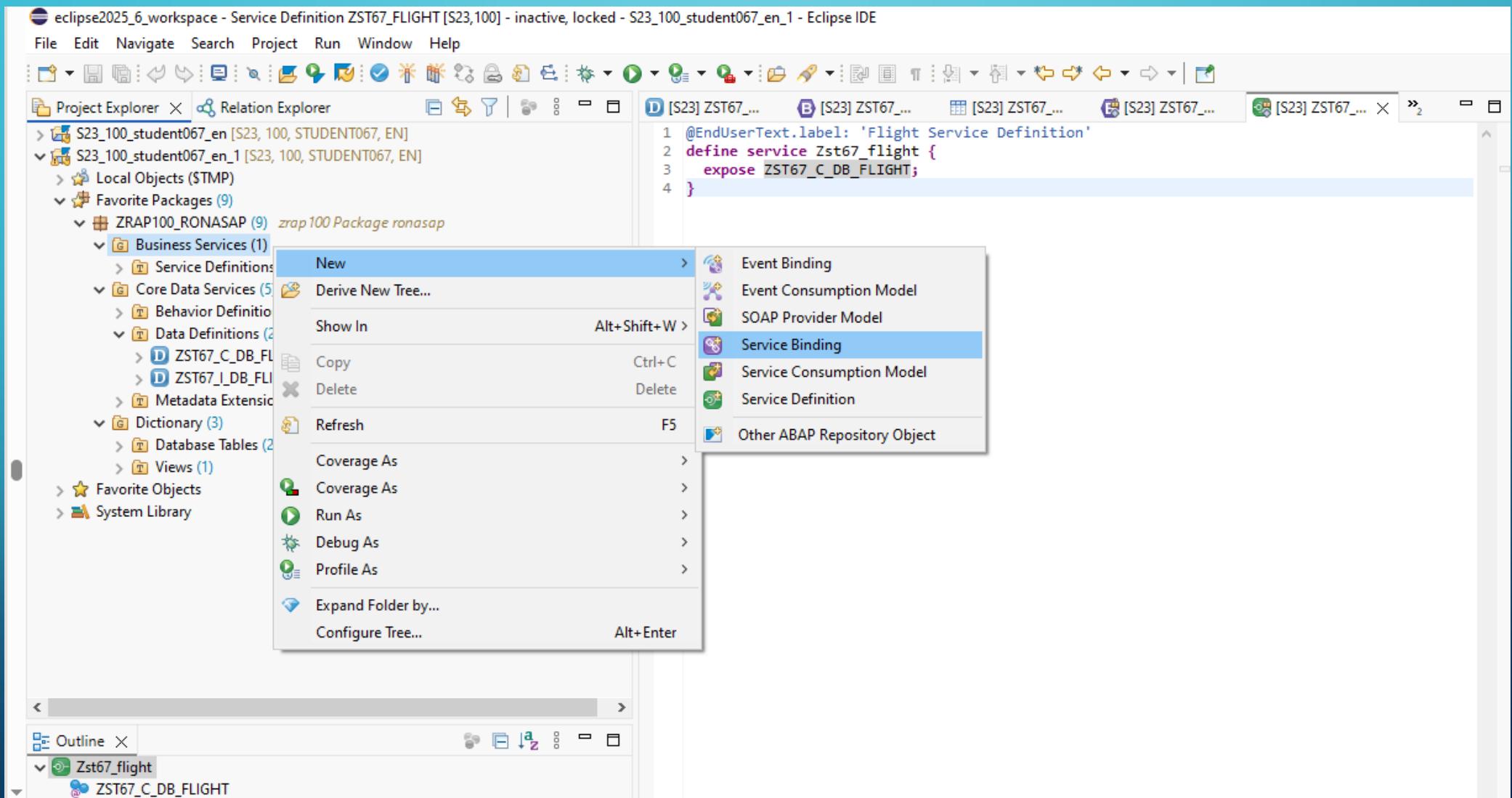
```
1 @EndUserText.label: 'Flight Service Definition'  
2 define service Zst67_flight  
3 {  
4     expose entity_name;  
5 }  
6
```

PROVIDE THE CONSUMPTION VIEW NAME:

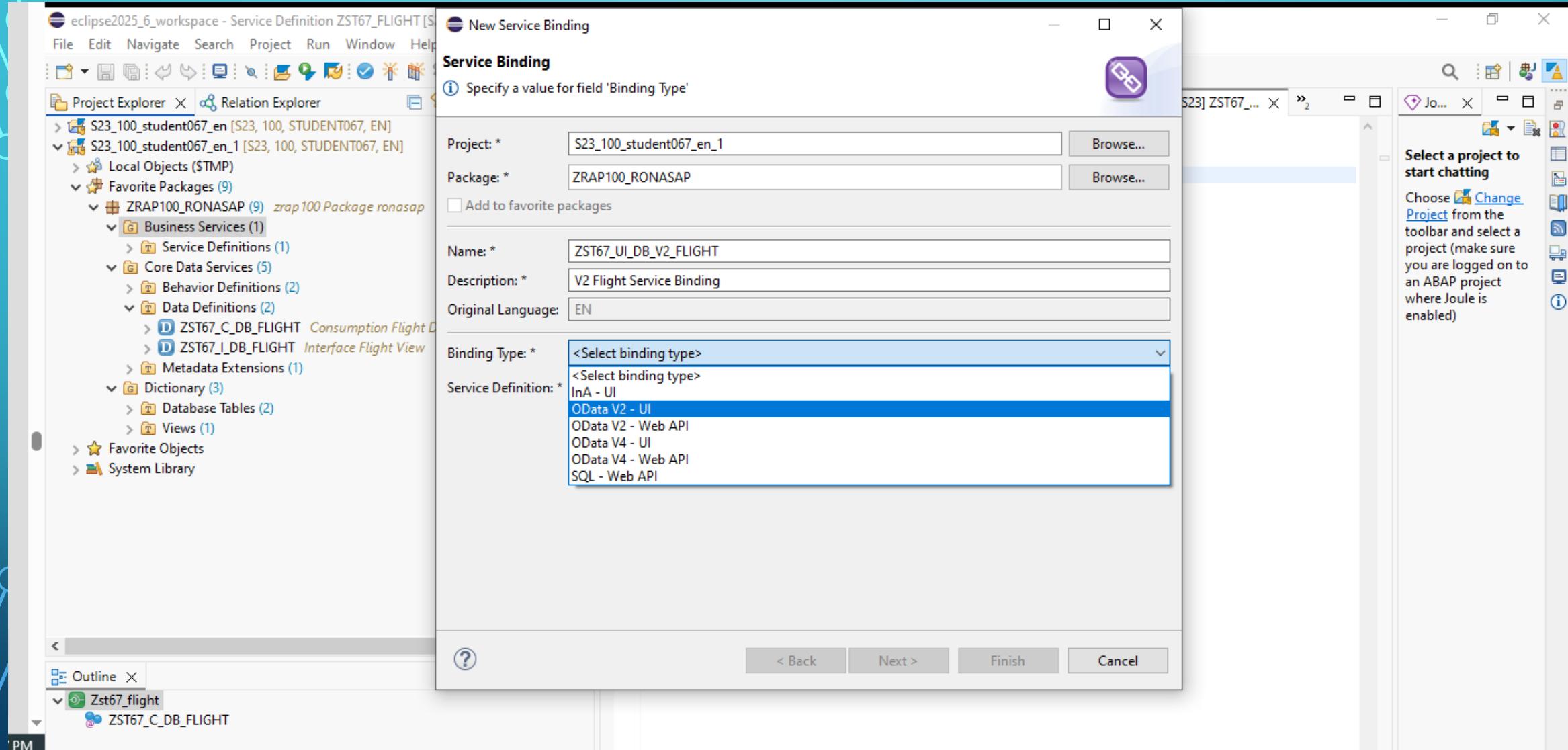
The screenshot shows the Eclipse IDE interface with the title bar "eclipse2025_6_workspace - Service Definition ZST67_FLIGHT [S23,100] - inactive, locked - S23_100_student067_en_1 - Eclipse IDE". The menu bar includes File, Edit, Source Code, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations like Open, Save, Copy, Paste, and Cut. The Project Explorer view on the left shows two projects: "S23_100_student067_en [S23, 100, STUDENT067, EN]" and "S23_100_student067_en_1 [S23, 100, STUDENT067, EN]". The "S23_100_student067_en_1" project is expanded, showing "Local Objects (\$TMP)" and "Favorite Packages (9)". One of the favorite packages is "ZRAP100_RONASAP (9)" which contains "Business Services (1)", "Core Data Services (5)", "Dictionary (3)", and "Metadata Extensions (1)". Under "Core Data Services (5)", there are "Behavior Definitions (2)" and "Data Definitions (2)". The "Data Definitions (2)" folder contains two items: "ZST67_C_DB_FLIGHT Consumption Flight Details" and "ZST67_I_DB_FLIGHT Interface Flight View". The "Code Editor" view on the right displays the service definition code:

```
1 @EndUserText.label: 'Flight Service Definition'  
2 define service Zst67_flight {  
3   expose ZST67_C_DB_FLIGHT;  
4 }
```

NEXT STEP IS TO CREATE A SERVICE BINDING FOR THE SERVICE DEFINITION :



PROVIDE A NAME, DESCRIPTION AND BINDING TYPE- WE CAN CHOOSE ODATA V2/V4 UI



PROVIDE THE SERVICE DEFINITION FOR WHICH BINDING IS TO BE CREATED.

The screenshot shows the SAP Studio interface with the 'New Service Binding' dialog open. The Project Explorer on the left displays a hierarchy of objects under the project 'S23_100_student067_en_1'. Key nodes include 'Local Objects (\$TMP)', 'Favorite Packages (9)' which contains 'ZRAP100_RONASAP (9)', and 'System Library'. The 'ZRAP100_RONASAP' package is expanded, showing 'Business Services (1)', 'Core Data Services (5)', 'Dictionary (3)', and other sub-nodes. The 'Service Definitions (1)' node under Business Services is selected. The 'New Service Binding' dialog has the following fields:

- Project:** S23_100_student067_en_1
- Package:** ZRAP100_RONASAP
- Name:** ZST67_UI_DB_V2_FLIGHT
- Description:** V2 Flight Service Binding
- Original Language:** EN
- Binding Type:** OData V2 - UI
- Service Definition:** ZST67_FLIGHT

A note at the bottom of the dialog states: "If you're using the implementation type managed without draft and you want to use Fiori Elements, you use OData V2 to expose your service. In all other scenarios, OData V4 is strongly recommended."

BELOW SCREEN APPEARS :

The screenshot shows the Eclipse IDE interface with the title bar "eclipse2025_6_workspace - Service Binding ZST67_UI_DB_V2_FLIGHT [S23,100] - inactive - S23_100_student067_en_1 [S23, 100, STUDENT067, EN] - Eclipse IDE". The menu bar includes File, Edit, Navigate, Search, Project, Run, Window, Help. The toolbar has various icons for file operations. The Project Explorer view on the left shows a tree structure with nodes like "S23_100_student067_en [S23, 100, STUDENT067, EN]", "S23_100_student067_en_1 [S23, 100, STUDENT067, EN]", "Local Objects (\$TMP)", "Favorite Packages (10)", "ZRAP100_RONASAP (10) zrap 100 Package ronasap", "Business Services (2)", "Service Bindings (1)", "Service Definitions (1)", "ZST67_FLIGHT Flight Service Definition", "Core Data Services (5)", "Behavior Definitions (2)", "Data Definitions (2)", "ZST67_C_DB_FLIGHT Consumption Flight Data", "ZST67_I_DB_FLIGHT Interface Flight View", "Metadata Extensions (1)", "Dictionary (3)", "Database Tables (2)", "Views (1)", "Favorite Objects", and "System Library". The main view displays the "Service Binding: ZST67_UI_DB_V2_FLIGHT" configuration. It includes a warning message: "To enable publish of local service endpoint, activate the Service Binding". The "General Information" section states "This section describes general information about this service binding" and "Binding Type: OData V2 - UI". The "Service Versions" section contains a table with one row: Version 1.0.0, API State Not Released, and Service Definition ZST67_FLIGHT. The "Service Version Details" section shows "Local Service Endpoint: Unpublished" with a "Publish" button. The "Service Information" section has the same warning message as the top.

Version	API State	Service Definition
1.0.0	Not Released	ZST67_FLIGHT

ACTIVATE AND THEN THE PUBLISH BUTTON IS ENABLED:

eclipse2025_6_workspace - Service Binding ZST67_UI_DB_V2_FLIGHT [S23,100] - active - S23_100_student067_en_1 - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer X Relation Explorer □

S23_100_student067_en [S23, 100, STUDENT067, EN]
S23_100_student067_en_1 [S23, 100, STUDENT067, EN]

Local Objects (\$TMP)
Favorite Packages (10)

ZRAP100_RONASAP (10) zrap100 Package ronasap

Business Services (2)
Service Bindings (1)
Service Definitions (1)
ZST67_FLIGHT Flight Service Definition

Core Data Services (5)
Behavior Definitions (2)
Data Definitions (2)
ZST67_C_DB_FLIGHT Consumption Flight Data
ZST67_I_DB_FLIGHT Interface Flight View
Metadata Extensions (1)

Dictionary (3)
Database Tables (2)
Views (1)

Favorite Objects
System Library

Service Binding: ZST67_UI_DB_V2_FLIGHT

General Information

This section describes general information about this service binding

Binding Type: OData V2 - UI

Service Versions

Define service versions associated with the service binding

type filter text

Version	API State	Service Definition
1.0.0	Not Released	ZST67_FLIGHT

Add... Remove

Service Version Details

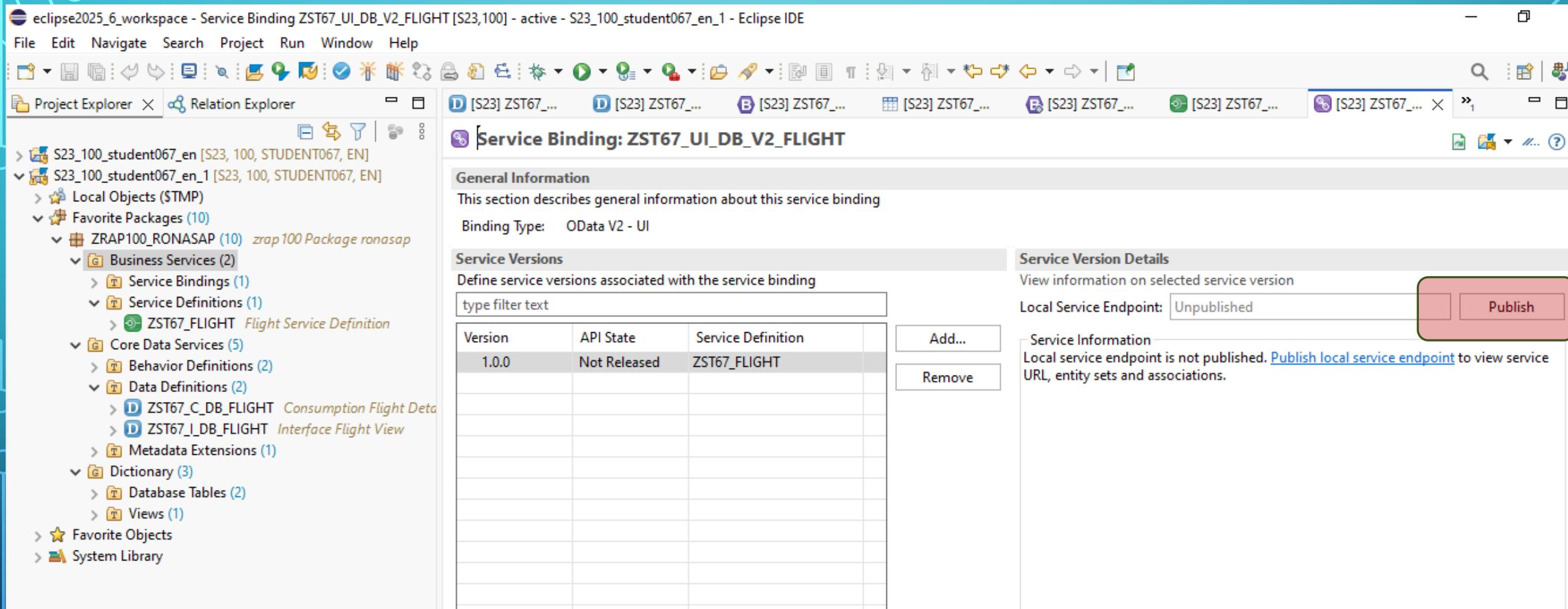
View information on selected service version

Local Service Endpoint: Unpublished

Publish

Service Information

Local service endpoint is not published. [Publish local service endpoint](#) to view service URL, entity sets and associations.



CLICK ON PUBLISH:

eclipse2025_6_workspace - Service Binding ZST67_UI_DB_V2_FLIGHT [S23,100] - active, locked - S23_100_student067_en_1 - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Project Explorer X Relation Explorer

D [S23] ZST67... D [S23] ZST67... B [S23] ZST67... [S23] ZST67... B [S23] ZST67... B [S23] ZST67... B [S23] ZST67... X

Service Binding: ZST67_UI_DB_V2_FLIGHT

General Information

This section describes general information about this service binding

Binding Type: OData V2 - UI

Service Versions

Define service versions associated with the service binding

type filter text

Version	API State	Service Definition
1.0.0	Not Released	ZST67_FLIGHT

Add... Remove

Service Version Details

View information on selected service version

Local Service Endpoint: Published Unpublish

Service Information

Service URL: /sap/opu/odata/sap/ZST67_UI_DB_V2_FLIGHT

type filter text

Entity Set and Association

ZST67_C_DB_FLIGHT Preview...

SELECT THE ENTITY AND PREVIEW. HERE IS THE FIORI UI. CLICK GO AND NO DATA FOUND.

Preview for Fiori Elements App

https://mmc-s4sap06.mmc.1stbasis.com:44300/sap/bc/adt/businessservices/odatav2/feap?feapParams=nghJKsi%5DsXVsjFsZ%60%5D%5B%5Ch77nghJKsWsX...

Welcome to Week 1... כנסיה ורישום — Shir... SAPUI5 Tutorial for... Главная Home [Europe (Rot)... Object Navigator

Standard

Connection No.:

Flights

Flight Code	Connection...	From Coun...	From City	From Airport	To Country	To City	To Airport	Departure Time	Arrival Time
-------------	---------------	--------------	-----------	--------------	------------	---------	------------	----------------	--------------

To start, set the relevant filters and choose "Go".

Preview for Fiori Elements App



https://mmc-s4sap06.mmc.1stbasis.com:44300/sap/bc/adt/businessservices/odatav2/feap?feapParams=nghJKsi%5DsXsjFsZ%60%5D%5B%5Ch77nghJKsWsX...



Welcome to Week 1...



כניסה ורישום — שירה...



https://sapes5.sapd...



SAPUI5 Tutorial for...



Главная



Home [Europe (Rot)...



Object Navigator



Other fa...

Standard ▾

Connection No.:

Search



Adapt Filters

Flights

Create Delete

Flight Code	Connection...	From Coun...	From City	From Airport	To Country	To City	To Airport	Departure Time	Arrival Time
-------------	---------------	--------------	-----------	--------------	------------	---------	------------	----------------	--------------

No data found.

LET'S CREATE:

Preview for Fiori Elements App

https://mmc-s4sap06.mmc.1stbasis.com:44300/sap/bc/adt/businessservices/odatav2/feap?feapParams=nghJKsi%5DsXVsjFsZ%60%5D%5B%5Ch77nghJKsWsX...

Welcome to Week 1... כנסה ורישום — שיר... https://sapes5.sapd... SAPUI5 Tutorial for... Главная Home [Europe (Rot)... Object Navigator Other favorites

Standard

Connection No.:

Search Go Adapt Filters

Flights

Flight Code	Connection...	From Coun...	From City	From Airport	To Country	To City	To Airport	Departure Time	Arrival Time
No data found.									

https://mmc-s4sap06.mmc.1stbasis.com:44300/sap/bc/adt/businessservices/odatav2/feap?feapParams=nghJKsi%5DsXVsjFsZ%60%5D%5B%5Ch77nghJKsWsX... 🔍 ⭐ ...



Welcome to Week 1... כניסה ורישום — שיר... https://sapes5.sapd... SAPUI5 Tutorial for... Главная Home [Europe (Rot)... Object Navigator > Other favorite...



Unnamed Object

Flight

Flight Code:*

Connection No.:*

From Country:

From City:

From Airport:

To Country:

To City:

To Airport:

Departure Time:

e.g. 11:59:58 PM



Arrival Time:

e.g. 11:59:58 PM



Create

Cancel

<https://mmc-s4sap06.mmc.1stbasis.com:44300/sap/bc/adt/businessservices/odatav2/feap?feapParams=nghJKsi%5DsXVsjFsZ%60%5D%5B%5Ch77nghJKsWsX...>[Welcome to Week 1...](#) [כניסה ורישום — שיר...](#) <https://sapes5.sapd...> [SAPUI5 Tutorial for...](#) [Главная](#) [Home \[Europe \(Rot\)...](#) [Object Navigator](#)

Other favorites

IN

Flight

Flight Code:*

IN

From Airport:

Departure Time:

8:55:09 PM



Connection No.:*

101

To Country:

Arrival Time:

12:55:27 PM



From Country:

IN

To City:

From City:

To Airport:

Create Cancel

DATA CREATED:

