

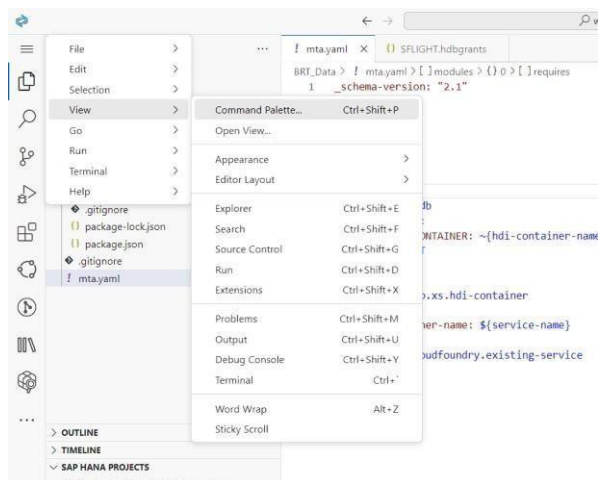
**Nama : Ikhwanul Arif Sitompul**

**NIM : 201402109**

## **UTS Enterprise Development Software**

### **Create calculation view**

- **Pilih file > View > Command Palette (Ctrl+Shift+P)**



- **Search “SAP HANA: Create SAP HANA Database**



**Artifact”**

**Isi bagian - bagian yang diperlukan, lalu  
klik "creat**

workspace (Workspace)

Create SAP HANA Database Artifact

Choose the artifact that you need for your project.

Specify where you want to create the new artifact:

Choose the database version:

Choose the artifact type:

Specify the artifact name:

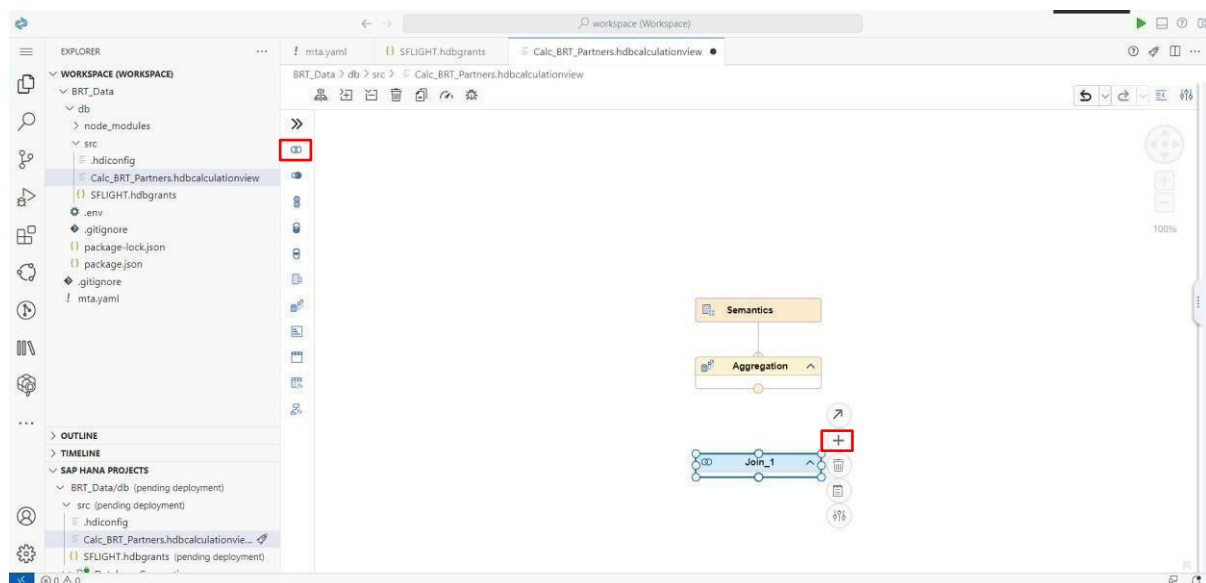
Specify the label:

Choose a data category:

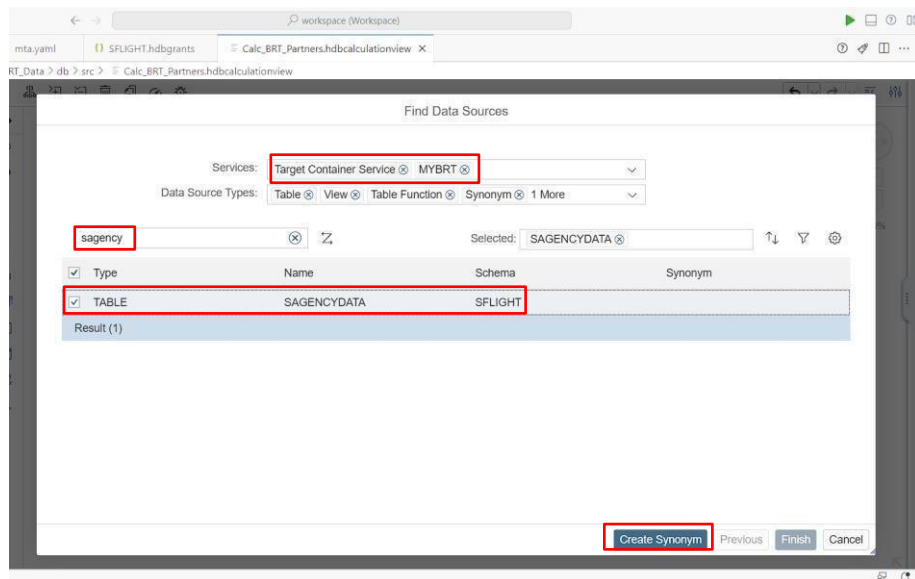
Use a star join? ☐ Yes ☒ No

**Create**

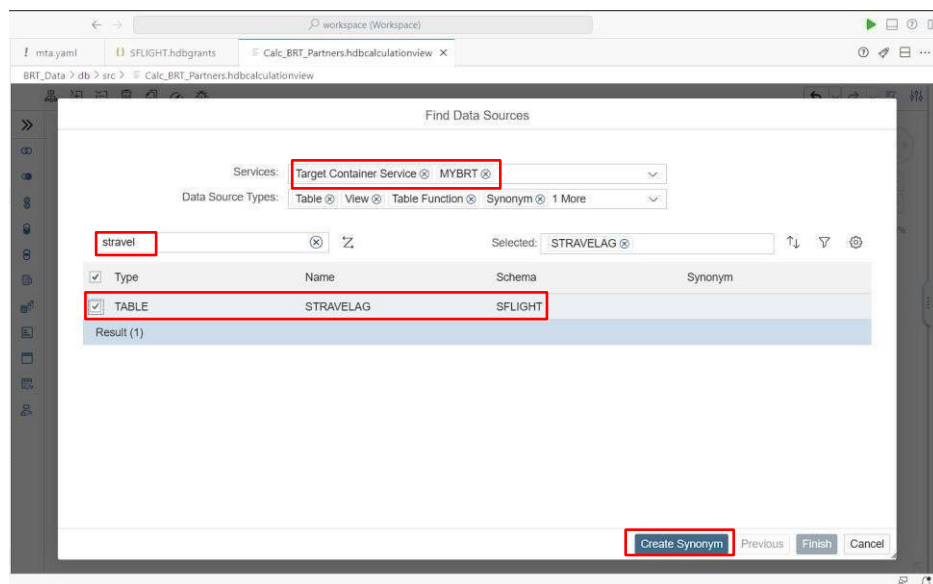
- **Create “Join” module, lalu klik ikon “+”**



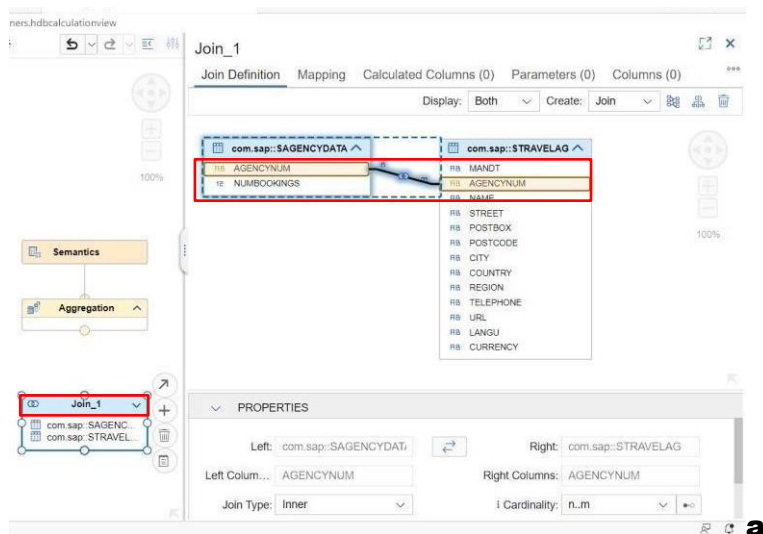
**Create synonym untuk SAGENCYDATA, kemudian klik “Finish”**



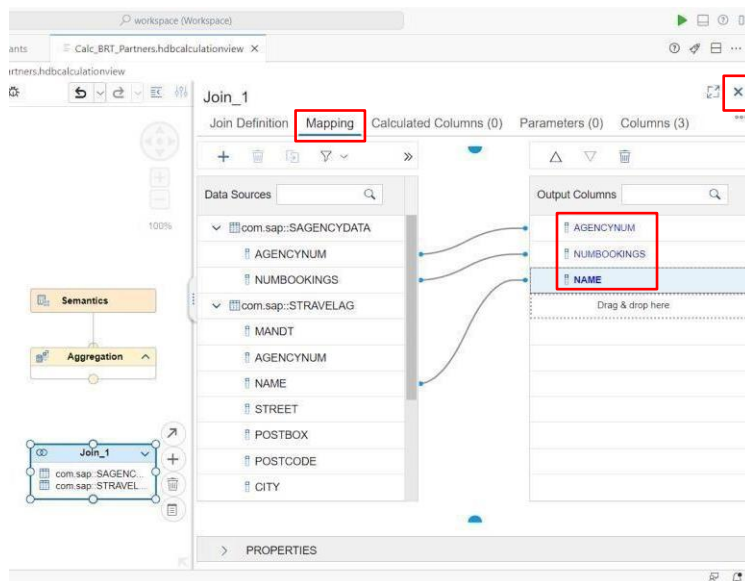
- **Create synonym untuk STRAVELAG, kemudian klik “Finish”**



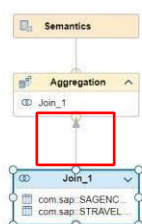
**Klik 2 kali pada “Join\_1”, kemudian klik dan tahan “AGENCYNUM” dari “SAGENCYDATA”, kemudian letakkan ke “AGENCYNUM” of “STRAVELAG”**



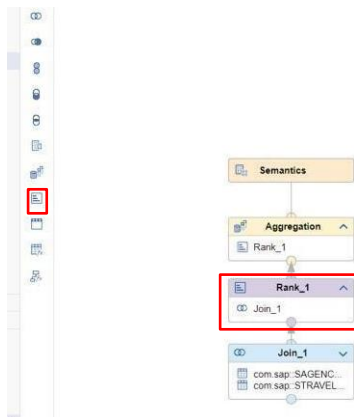
- **Klik pada “Mapping”, pilih dan drag “AGENCYNUM”, “NUMBOOKINGS”, dan “NAME” ke sebelah kanan. Setelah itu tutup jendela join**



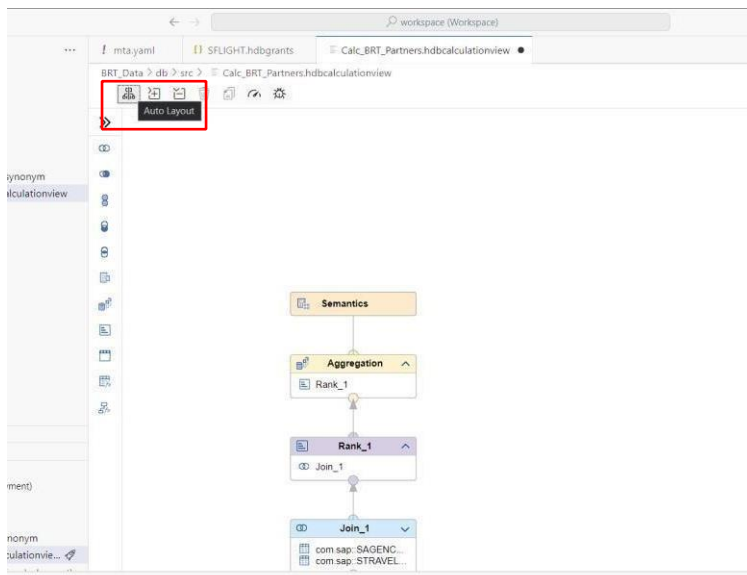
**Connect “Join\_1” ke “Aggregation” menggunakan arrow icon**



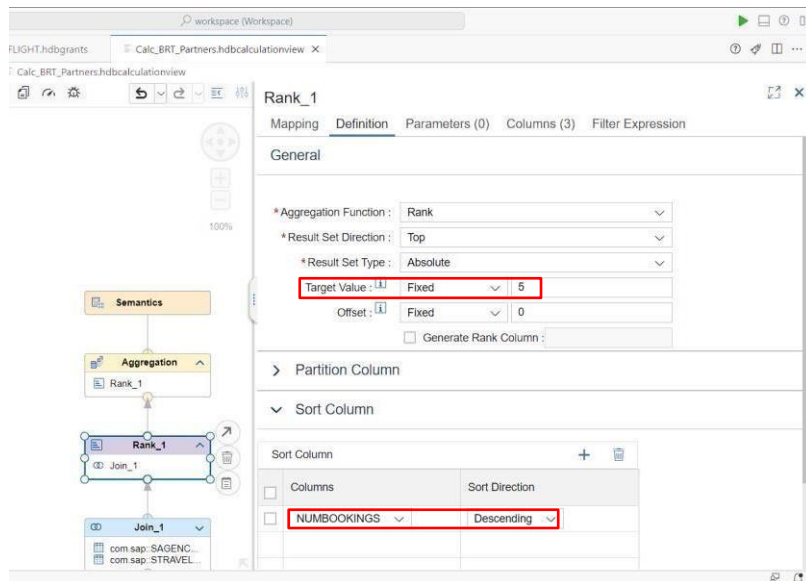
- 
- **Tambahkan rank node diantara 2 nodes**



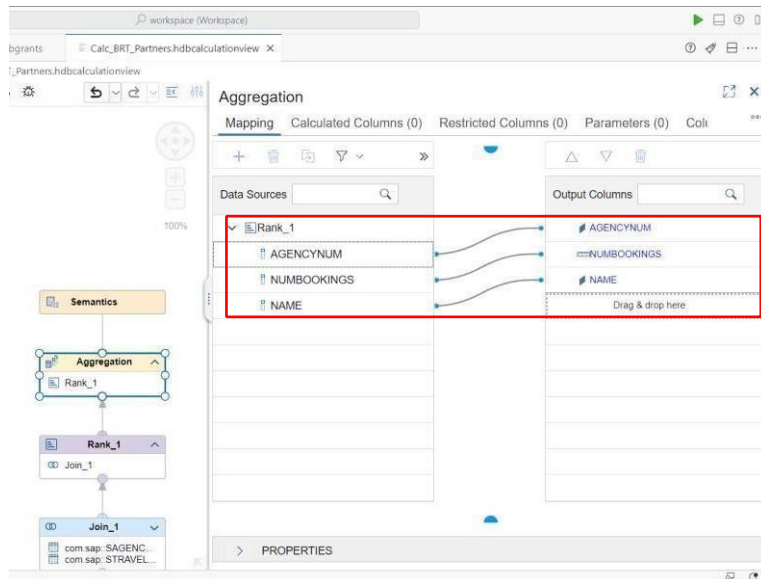
**Klik auto layout untuk mengatur ulang canvas**



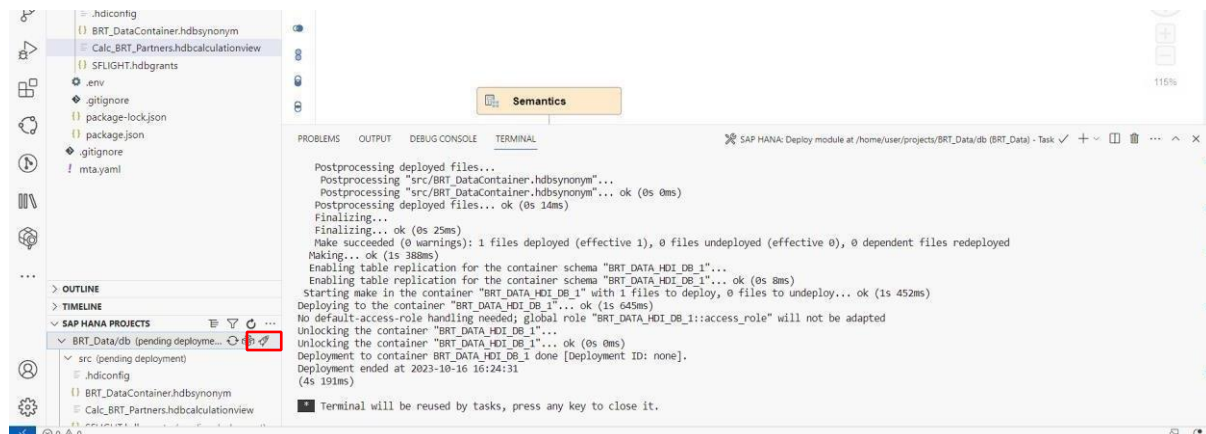
- **Atur “Rank\_1” dengan meng-klik 2 kali**



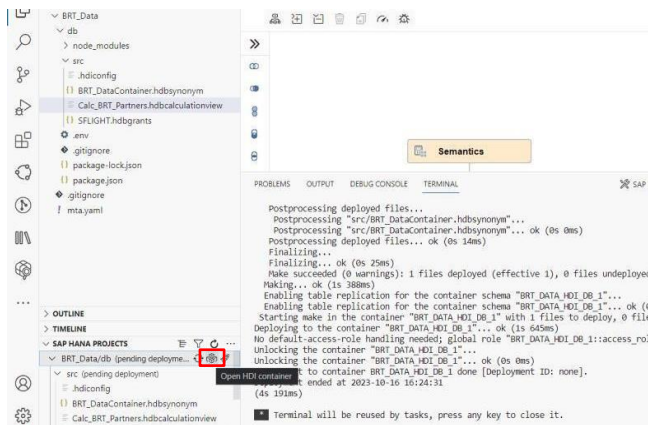
**Atur pemetaan “Aggregation” dengan mengklik 2 kali**



• **Terapkan proyek**



**Membuka HDI Container**



SAP HANA Database Explorer

Filter Instances

SharedDevKey@BRT\_DataCont

Column View Name: Calc\_BRT\_Partners

Schema: BRT\_DATA\_HDI\_DB\_1

Type: CALCULATED

Columns	View Column	SQL Data Type	Not Null	Default	Comment
1	AGENCYNUM	NVARCHAR(8)		NULL	AGENCYNUM
2	NAME	NVARCHAR(25)		NULL	NAME
3	NUMBOOKINGS	BIGINT		NULL	NUMBOOKINGS

SAP HANA Database Explorer

Filter Instances

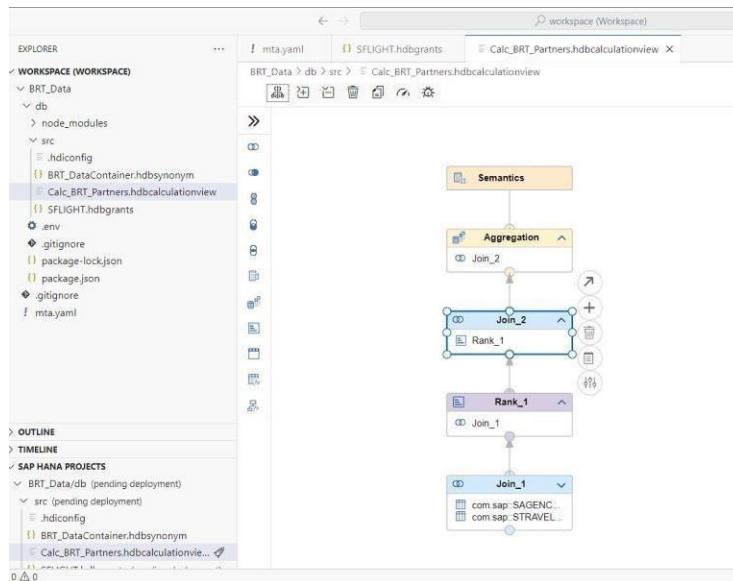
SharedDevKey@BRT\_DataCont

Analysis: Raw Data

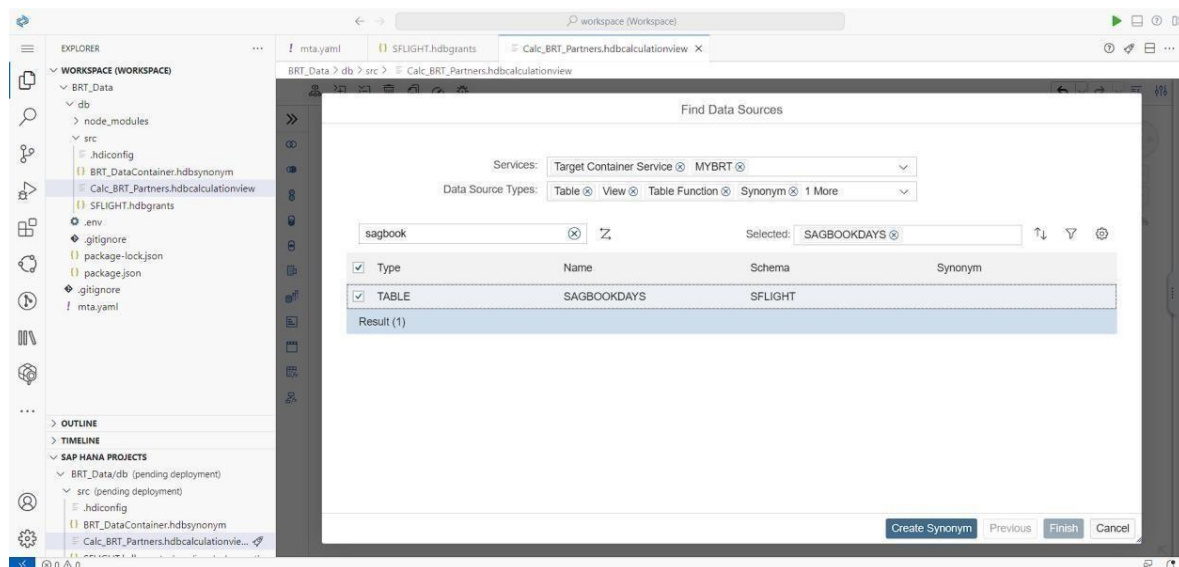
Rows (5)

	AGENCYNUM	NAME	
1	00000284	Rainy, Stormy, Cloudy	27870
2	00000122	Fly Low	27869
3	00000101	Bella Italia	27866
4	00000109	Kangeroos	27867
5	00000118	Asia By Plane	27416

**Buat Join Node yang baru**



- **Tambahkan data source “SAGBOOKDAYS” Ke “Join\_2”**



**Mengatur Join Definition and Mapping of both**



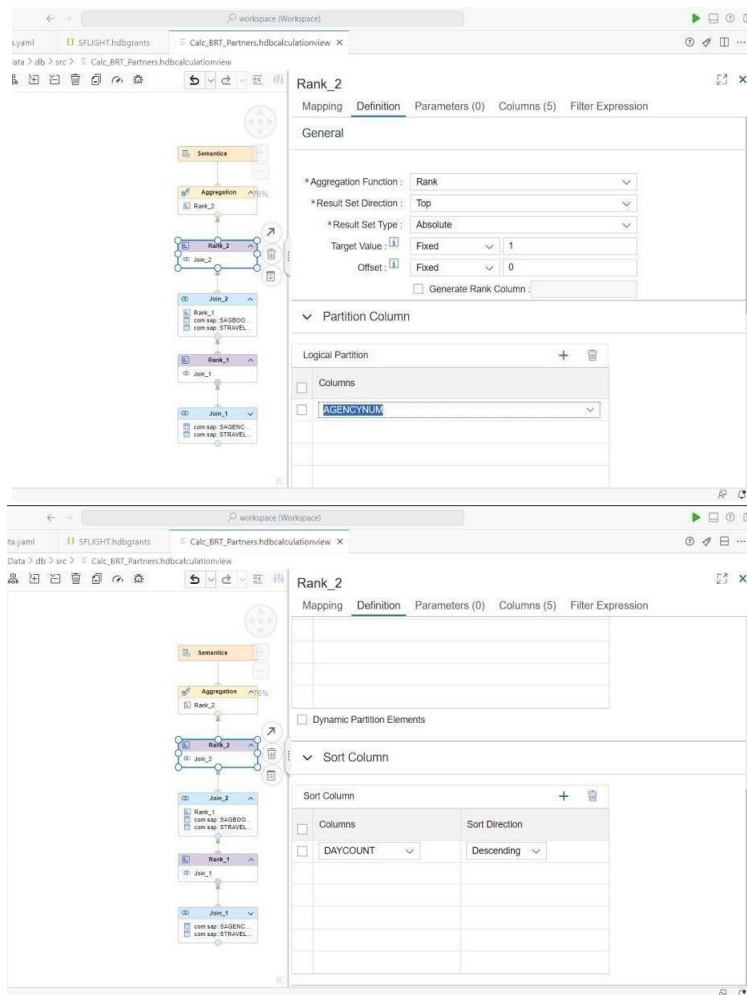
The top screenshot shows the 'Join Definition' tab for 'Join\_2'. It displays a diagram where 'Rank\_1' (with columns AGENCYNUM, NUMBOOKINGS, NAME) is joined to 'com.sap::SAGBOOKDAYS' (with columns AGENCYNUM, ORDERDAY, DAYCOUNT) on the 'AGENCYNUM' column. The 'Properties' pane shows: Left: Rank\_1, Right: com.sap::SAGBOOKDAY, Left Column: AGENCYNUM, Right Columns: AGENCYNUM, Join Type: Inner, Cardinality: n:m.

The bottom screenshot shows the 'Mapping' tab for 'Join\_2'. It shows the 'Data Sources' section with 'Rank\_1' and 'com.sap::SAGBOOKDAYS'. The 'Output Columns' section shows the mapped columns: AGENCYNUM, NUMBOOKINGS, NAME, DAYCOUNT, and ORDERDAY. Arrows indicate the mapping from the data source columns to the output columns.

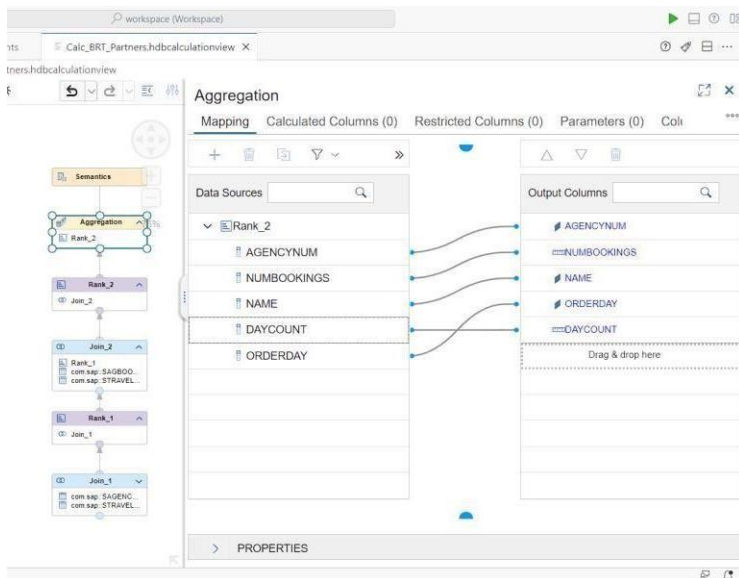
## Add “Rank\_2”



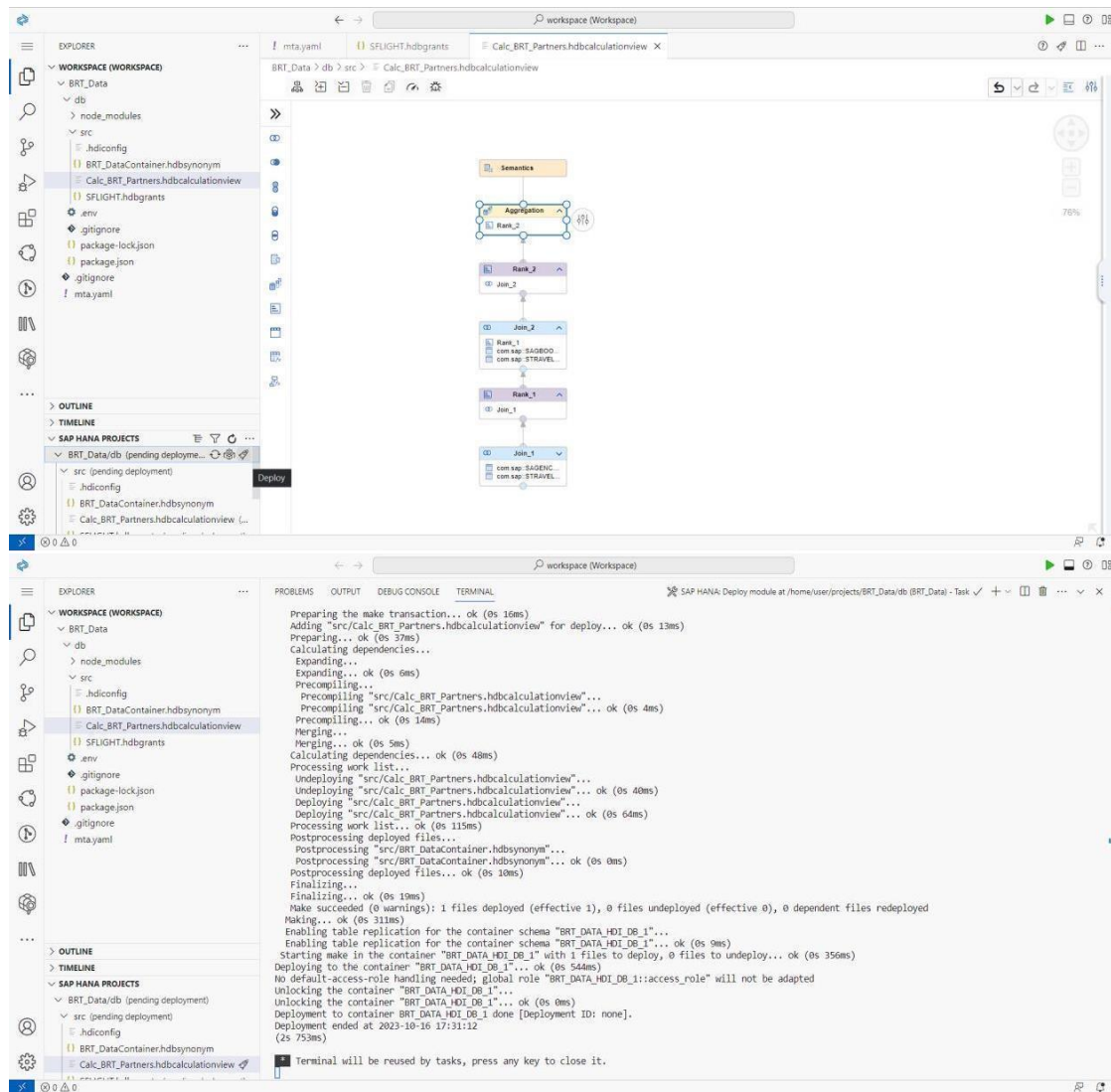
- Set Up “Rank\_2”



## Ubah Aggregation mapping



- **Pindahkan project**



## Periksa output dengan HDI Container

workspace (Workspace)

mta.yaml SFLIGHT.hdbgrants Calc\_BRT\_Partners.hdbcalculationview

BRT\_Data > db > src > Calc\_BRT\_Partners.hdbcalculationview

EXPLODER

WORKSPACE (WORKSPACE)

- BRT\_Data
  - db
    - node\_modules
    - src
      - hdbconfig
      - BRT\_DataContainer.hdbsynonym
      - Calc\_BRT\_Partners.hdbcalculationview
      - SFLIGHT.hdbgrants
      - env
      - gitignore
      - package-lock.json
      - package.json
      - gitignore
      - mta.yaml

OUTLINE

TIMELINE

SAP HANA PROJECTS

- BRT\_Data/db (pending deployment)
- src (pending deployment)
- hdbconfig
- BRT\_DataContainer.hdbsynonym
- Calc\_BRT\_Partners.hdbcalculationview

Open HDB container

Rank\_2

Join\_2

Rank\_1

Join\_1

SAP HANA Database Explorer

SharedDevKey@BRT\_DataContainer (dev: BRT\_DATA\_HDI\_DB\_1.Calc\_BRT\_Partners)

Filter Instances

- SharedDevKey@BRT\_DataContainer
  - Column Views
  - Cubes
  - Functions
  - Graph Workspaces
  - Indexes
  - JSON Collections
  - Libraries
  - Procedures
  - Public Synonyms
  - Demento Subscriptions

Search Column Views

Calc\_BRT\_Partners

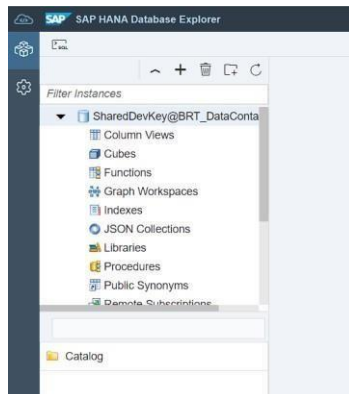
Analysis Raw Data

Rows (5)

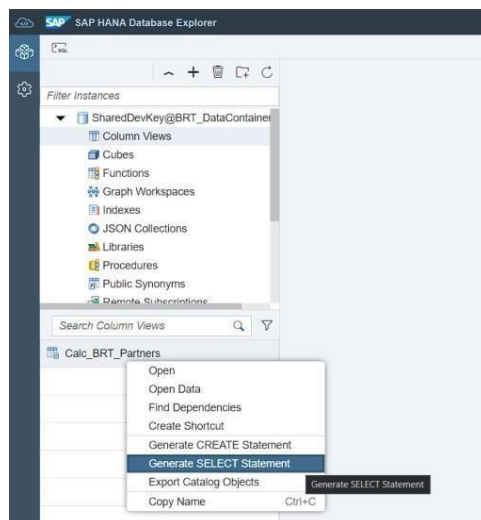
	AGENCYNUM	NAME	ORDERDAY	NUMBOOKINGS	DAYCOUNT
1	00000122	Fly Low	THURSDAY	27869	4037
2	00000118	Asia By Plane	TUESDAY	27416	4004
3	00000101	Bella Italia	THURSDAY	27866	4038
4	00000284	Rainy, Stormy, Cloudy	MONDAY	27870	4108
5	00000109	Kangeroos	THURSDAY	27867	4095

## 8. Share a Subset of Your Data Securely

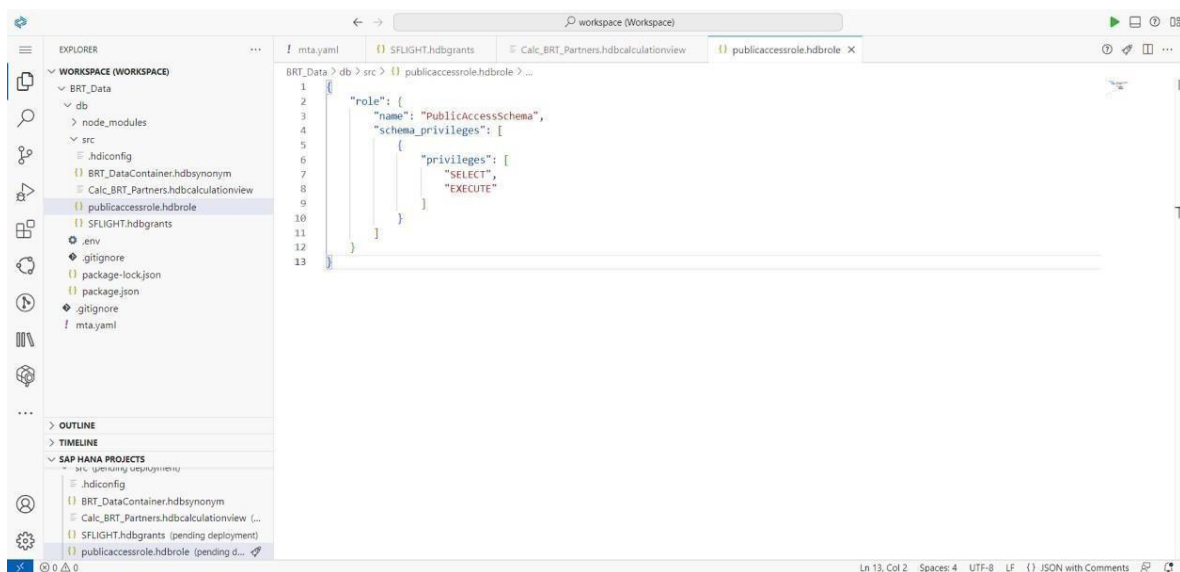
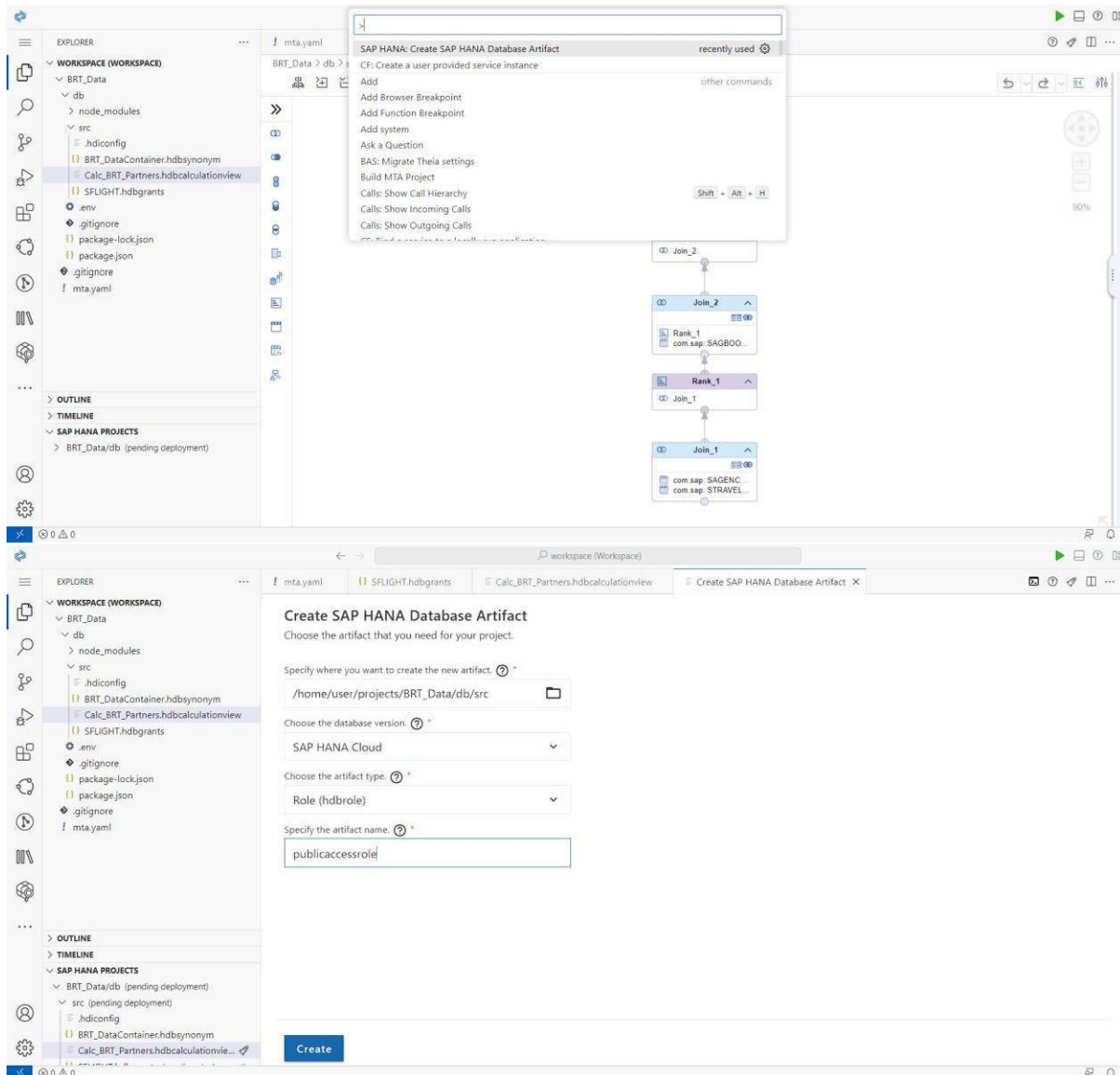
- **Buka SAP HANA Database Explorer**



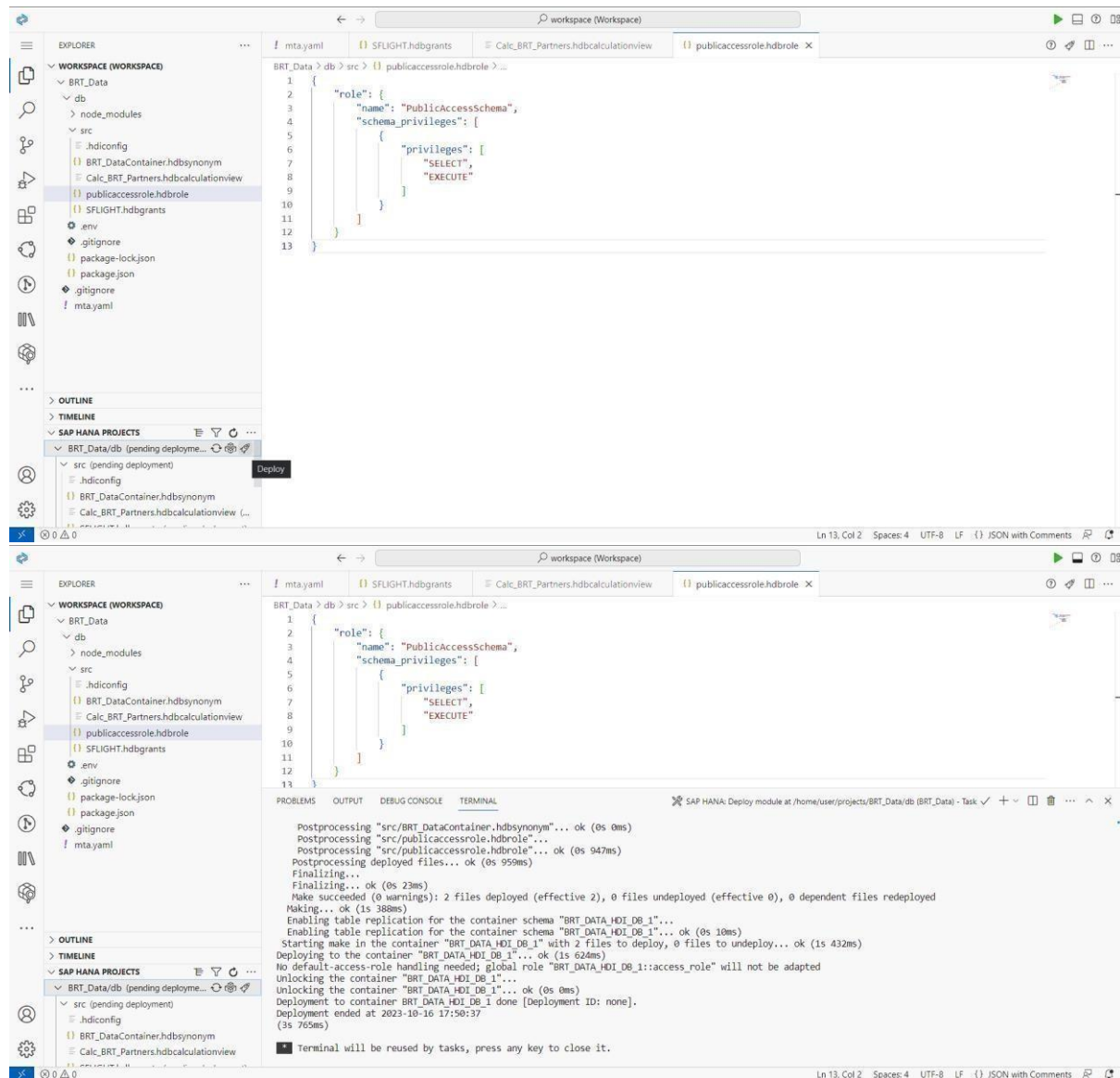
- **Hasilkan pernyataan SELECT**



# Membuat SAP HANA Database Artifact

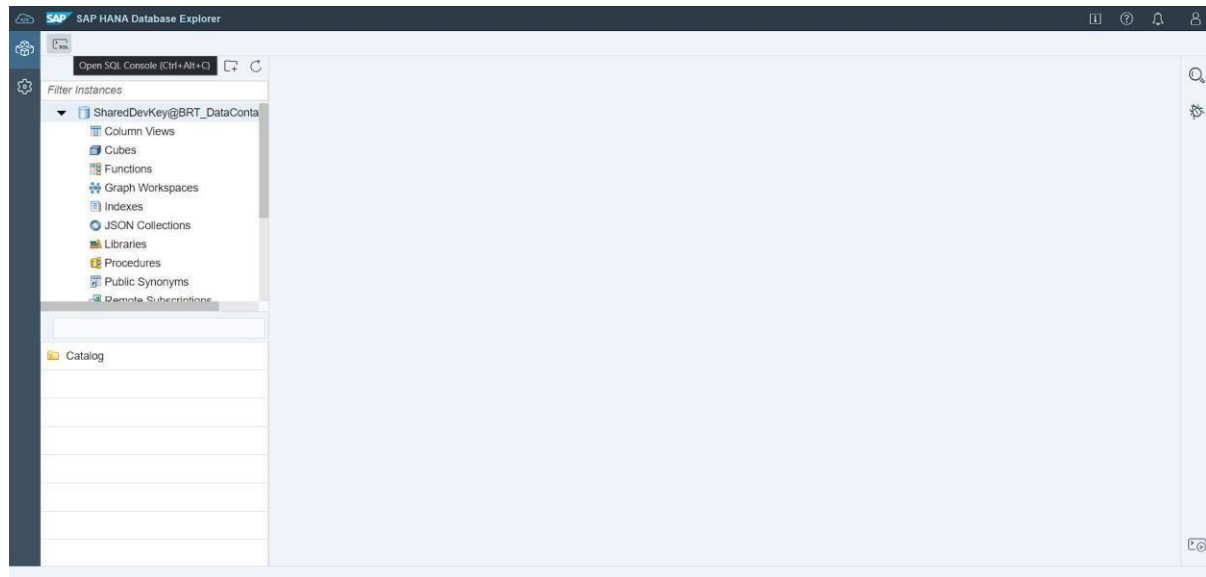


- **Mengatur public access role Pindahkan project**



**Buka SAP HANA Database Explorer dengan HDI Container dan buka console SQL baru.**





- **Buat pengguna baru, kemudian salin query, isi dengan kata sandi akun,lalu jalankan query.**

