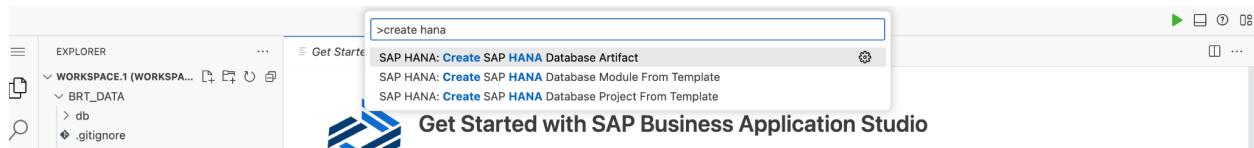


Create a Calculation View

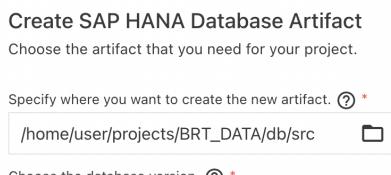
Mission Summary:

Best Run Travel wants to identify the top 5 partners and the days with maximum booking for the top 5 partners

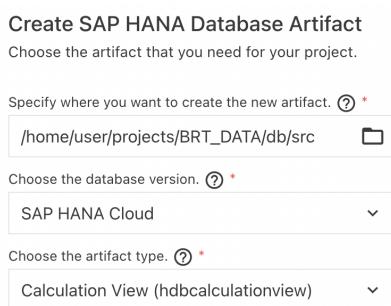
1. Langkah pertama buka SAP Business Application Studio, lalu klik view->find command. Selain itu, bisa CTRL+Shift + P lalu pilih SAP HANA: Create SAP HANA Database Artifact



2. Atur path ke /home/projects/BRT_Data/db/src



3. Lalu pilih Calculation View pada Artifact Type



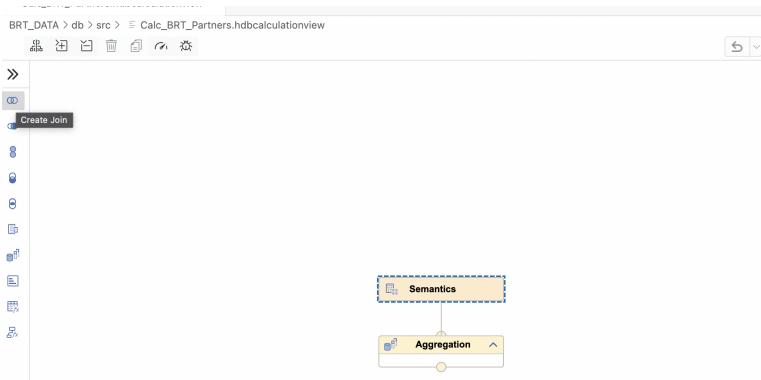
4. Set nama artifact dengan **Calc_BRT_Partners**



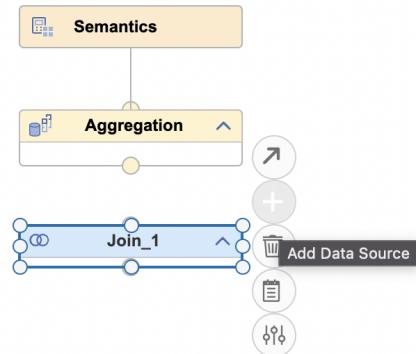
5. Lalu klik create



6. Buka Calc_BRT_Partners, lalu klik icon join di sebelah kiri



7. Masukkan ke canvas, lalu klik icon +



8. Pilih MYPRT pada services

Services: Target Container Service MYBRT

Data Source Types:

- Target Container Service
- MYBRT

Selected:

9. Lalu search 'SAGENC' , namun jangan lupa untuk login cloud foundry terlebih dahulu

SAGENC		Selected:	↑↓	✖	⚙️
Type	Name	Schema	Synonym		
TABLE	SAGENCYDATA	SFLIGHT			
Result (1)					

10. Check table tersebut lalu pilih create synonym setelah itu klik finish

SAGENC		Selected:	↑↓	✖	⚙️
Type	Name	Schema	Synonym		
TABLE	SAGENCYDATA	SFLIGHT			
Result (1)					

11. Lalukan join table SAGENC dengan STRAVEL

Find Data Sources

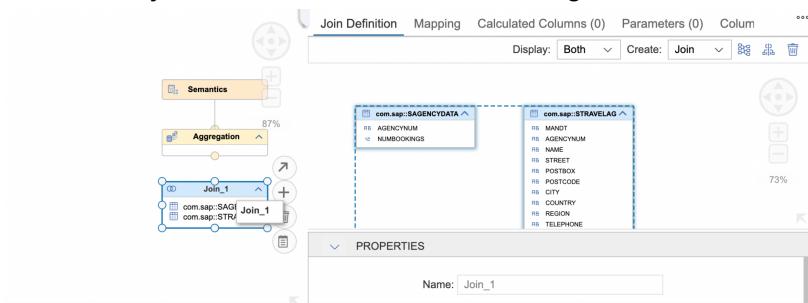
Services: Target Container Service MYBRT

Data Source Types: Table View Table Function Synonym 1 More

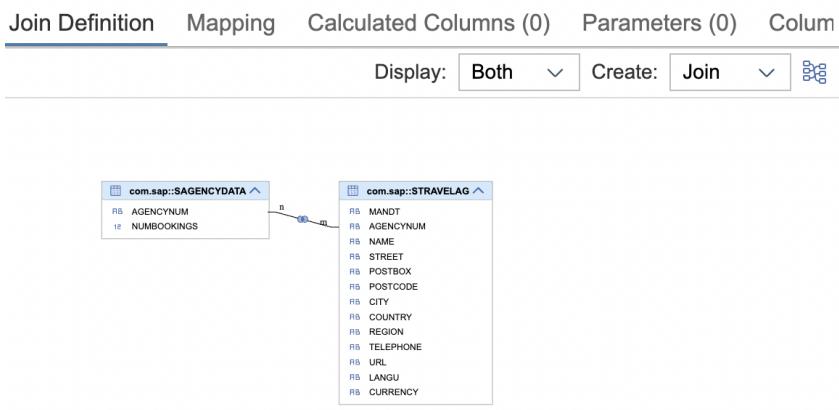
STRAVELAG		Selected: STRAVELAG	↑↓	✖	⚙️
Type	Name	Schema	Synonym		
TABLE	STRAVELAG	SFLIGHT			
Result (1)					

Create Synonym Previous Finish Cancel

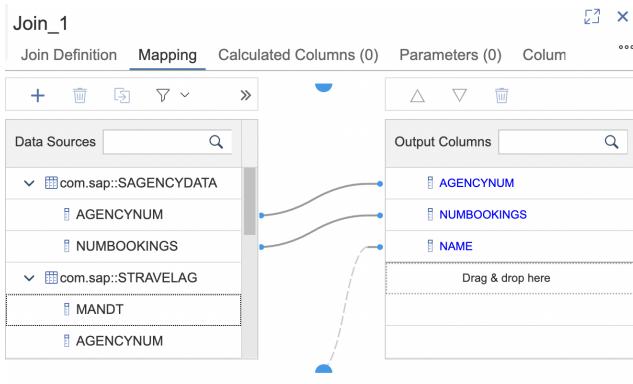
12. Double klik join node untuk membuka setting



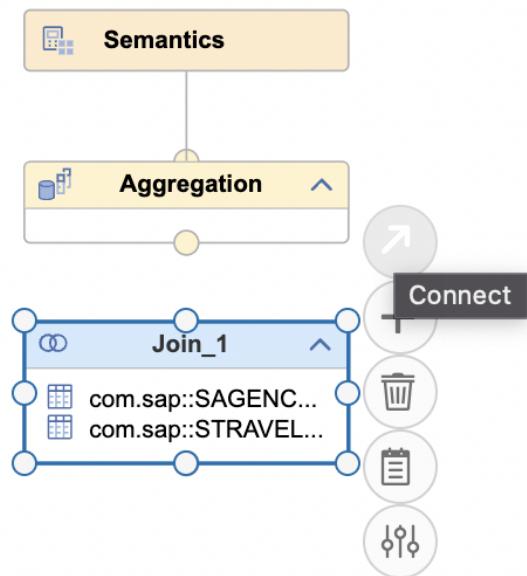
13. Pada Join definition, klik dan drop AGENCYNUM pada table SAGENCY lalu drop ke AGENCYNUM pada table STRAVELAG



14. Lalu klik mapping, akan menentukan output yang diinginkan. Drag and drop AGENCYNUM, NUMBOOKINGS, dan ,NAME



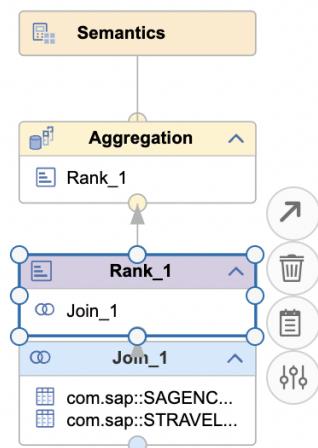
15. Langkah selanjutnya adalah menghubungkan join node dengan aggregation node diatasnya dengan cara klik arrow node lalu drag and drop ke aggregation node



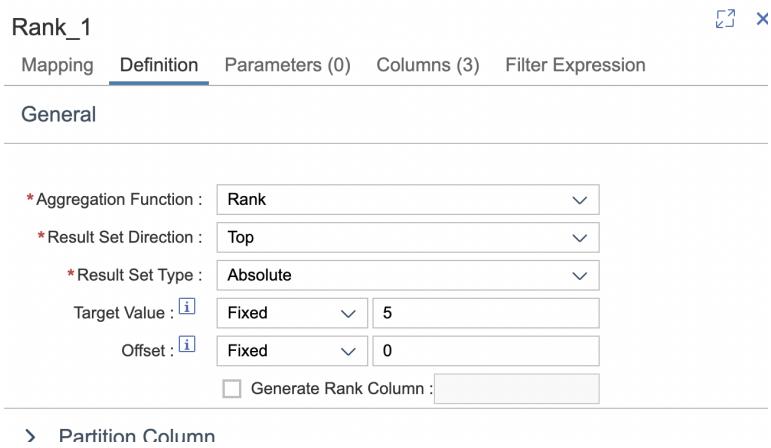
16. Klik create rank



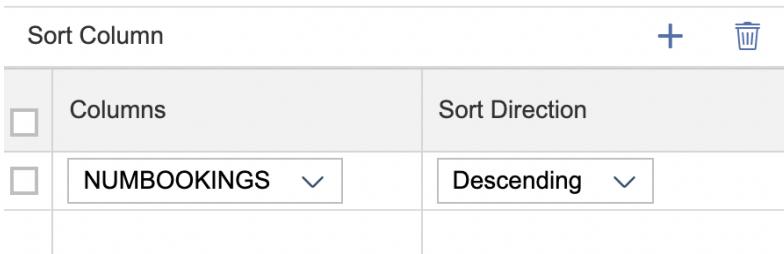
17. Lalu drag and drop diantara aggregation dan join node



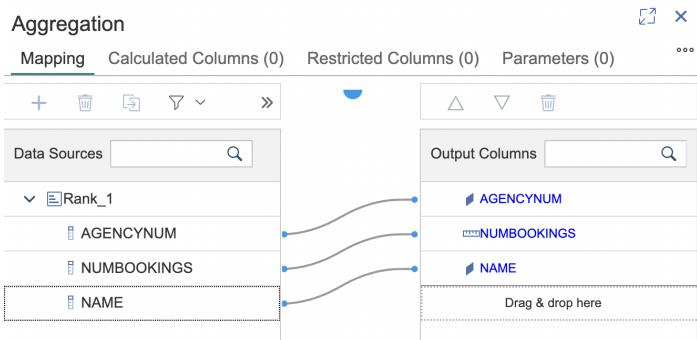
18. Buka setting rank, lalu set target value menjadi 5



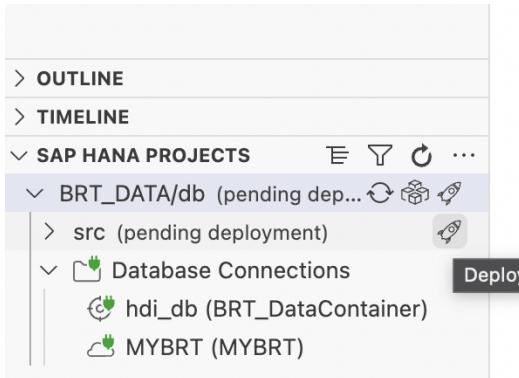
19. Lalu centang sort column, lalu set column menjadi NUMBOOKINGS dan sort direction menjadi descending lalu klik icon +



20. Pada node aggregation pastikan semua column telah di set menjadi output



21. Klik icon roket dekat calculation view name



22. Berhasil dideploy

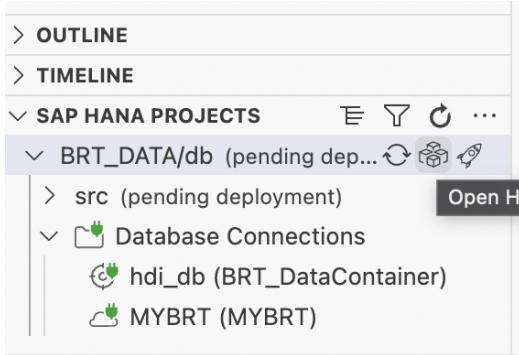
```
Finalizing...
Finalizing... ok (0s 37ms)
Make succeeded (0 warnings): 1 files deployed (effective 1), 0 files undeployed (effective 0), 0 dependent files redeployed
Making... ok (is 435ms)
Enabling table replication for the container schema "BRT_DATA_HDI_DB_1"...
Enabling table replication for the container schema "BRT_DATA_HDI_DB_1"... ok (0s 8ms)
Starting make in the container "BRT_DATA_HDI_DB_1" with 1 files to deploy, 0 files to undeploy... ok (1s 498ms)
Deploying to the container "BRT_DATA_HDI_DB_1"... ok (is 687ms)
No default-access-role handling needed; global role "BRT_DATA_HDI_DB_1::access_role" will
Unlocking the container "BRT_DATA_HDI_DB_1"...
Unlocking the container "BRT_DATA_HDI_DB_1"... ok (0s 0ms)
Deployment to container BRT_DATA_HDI_DB_1 done [Deployment ID: none].
Deployment ended at 2023-10-16 12:59:16
(3s 902ms)
```

* Terminal will be reused by tasks, press any key to close it.

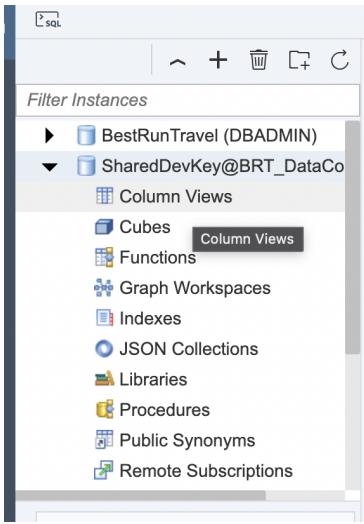
⚠ The task 'SAP HANA: Deploy module at /home/user/projects/BRT_DATA/db (BRT_DATA)' is already active.

Terminate Task Restart Task

23. Check output dengan cara open HDI Container



24. Pada SAP HANA Database Explorer, klik column views

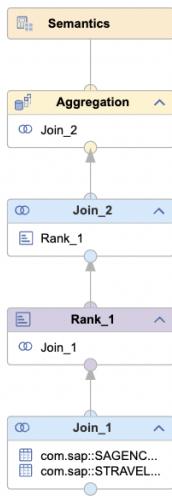


25. Klik raw data untuk melihat top 5 partners of bestruntravel

The screenshot shows the SAP HANA Database Explorer with the 'Raw Data' tab selected. The results table displays five rows of data:

	AGENCYNUM	NAME	NUMBOOKINGS
1	0000012	Fly Low	27869
2	00000087	Happy Hoping	25030
3	00000084	Rainy, Stormy, Cloudy	27870
4	00000061	Fly High	29835
5	00000109	Kangeroos	27867

26. Kembali ke SAP Business Application studio, add join node letakkan antara aggregation dan join 1



27. Add SAGBOOKDAYS

Type	Name	Schema	Synonym
<input checked="" type="checkbox"/> TABLE	SAGBOOKDAYS	SFLIGHT	

Result (1)

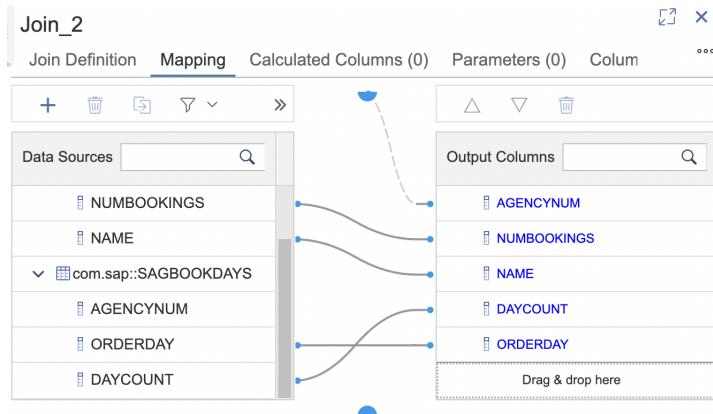
Buttons at the bottom: Create Synonym, Previous, Finish, Cancel.

28. Edit join 2, pada definition connect AGENCYNUM RANK 1 ke AGENCYNUM SAGBOOKDAYS

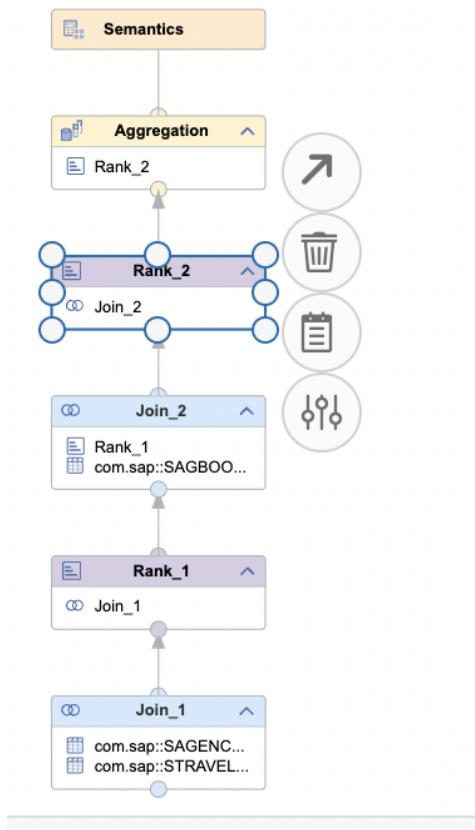
Rank_1	com.sap::SAGBOOKDAYS
AGENCYNUM	AGENCYNUM
NAME	DAYCOUNT

55%

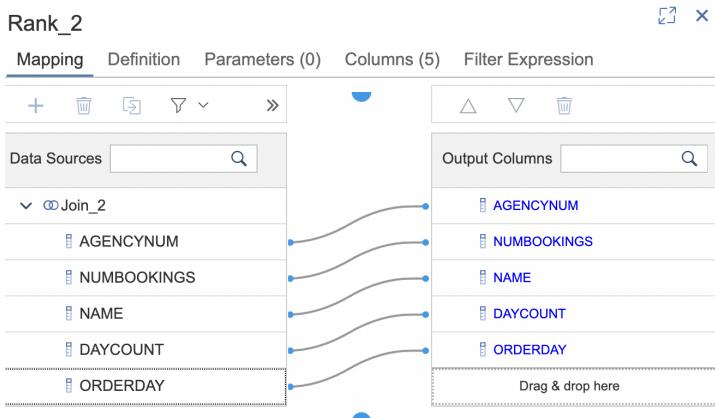
29. Pada mapping, pastikan bahwa AGENCYNUM, NUMBOOKINGS,NAME, DAYCOUNT, dan ORDERDAY MENJADI OUTPUT



30. Add rank node diantara join_2 dan aggregation



31. Double klik rank 2, lalu pada mapping pastikan semua column menjadi output

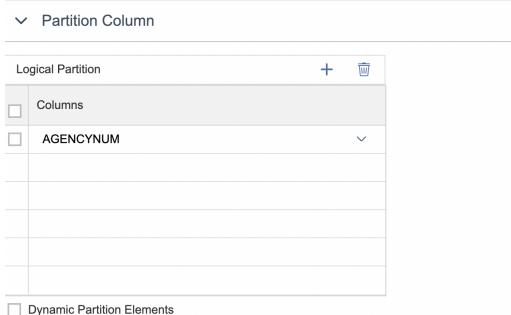


32. Lalu pada definition pilih aggregation function menjadi rank lalu set target value menjadi 1

The screenshot shows the 'Rank_2' definition configuration. The 'Definition' tab is selected. Under the 'General' section, the following settings are shown:

- *Aggregation Function : Rank
- *Result Set Direction : Top
- *Result Set Type : Absolute
- Target Value : Fixed 1
- Offset : Fixed 0
- Generate Rank Column :

33. Set partition column menjadi AGENCYNUM

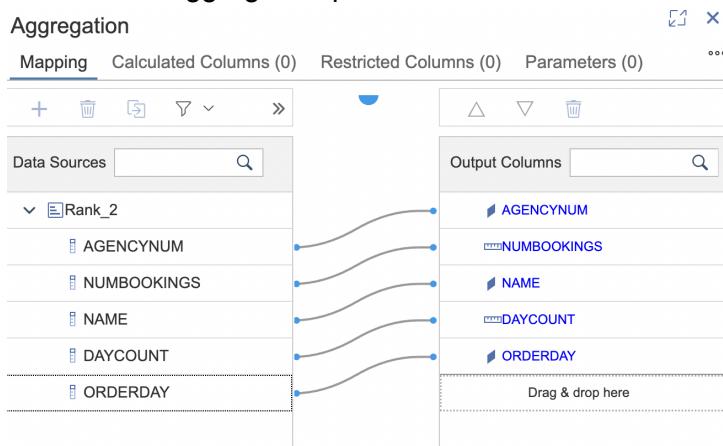


34. Lalu pada sort column pilih DAYCOUNT dan set menjadi descending

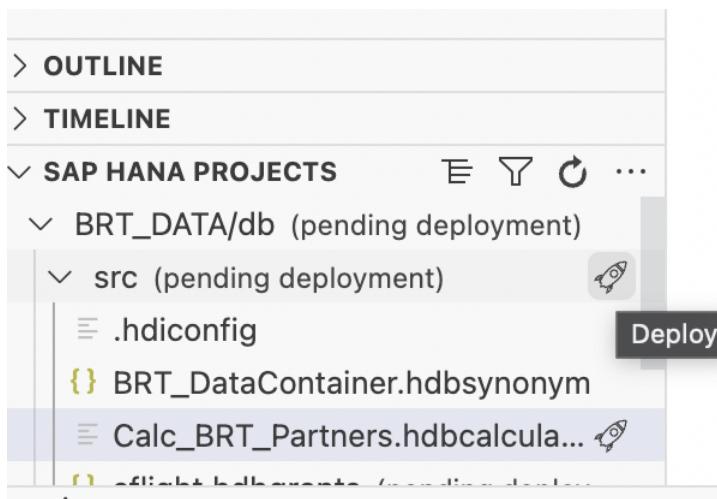
✓ Sort Column

Sort Column		+	-
Columns	Sort Direction		
DAYCOUNT	Descending		

35. Double click aggregation,pastikan semua column telah di set menjadi output



36. Lalu klik icon rocket



37. hasilnya

The screenshot shows a data visualization interface with three tabs at the top: SAPLANE, Calc_BRT_Partners (selected), and SQL Console 1.sql. Below the tabs is a toolbar with icons for search, refresh, and various data operations. The main area is titled 'Raw Data' and displays a table with 5 rows of flight booking data. The columns are: AGENCYNUM, NAME, ORDERDAY, NUMBOOKINGS, and DAYCOUNT.

	AGENCYNUM	NAME	ORDERDAY	NUMBOOKINGS	DAYCOUNT
1	00000122	Fly Low	THURSDAY	27869	4037
2	00000061	Fly High	WEDNESDAY	25935	3794
3	00000087	Happy Hopping	THURSDAY	25936	3764
4	00000284	Rainy, Stormy, Cloudy	MONDAY	27870	4108
5	00000109	Kangeroos	THURSDAY	27867	4095