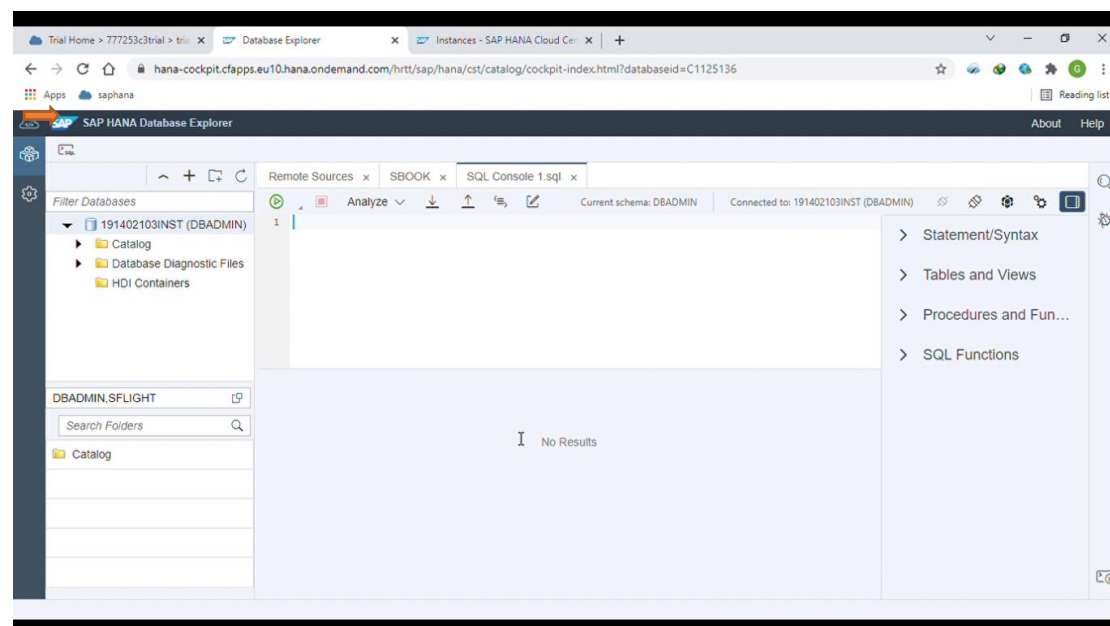
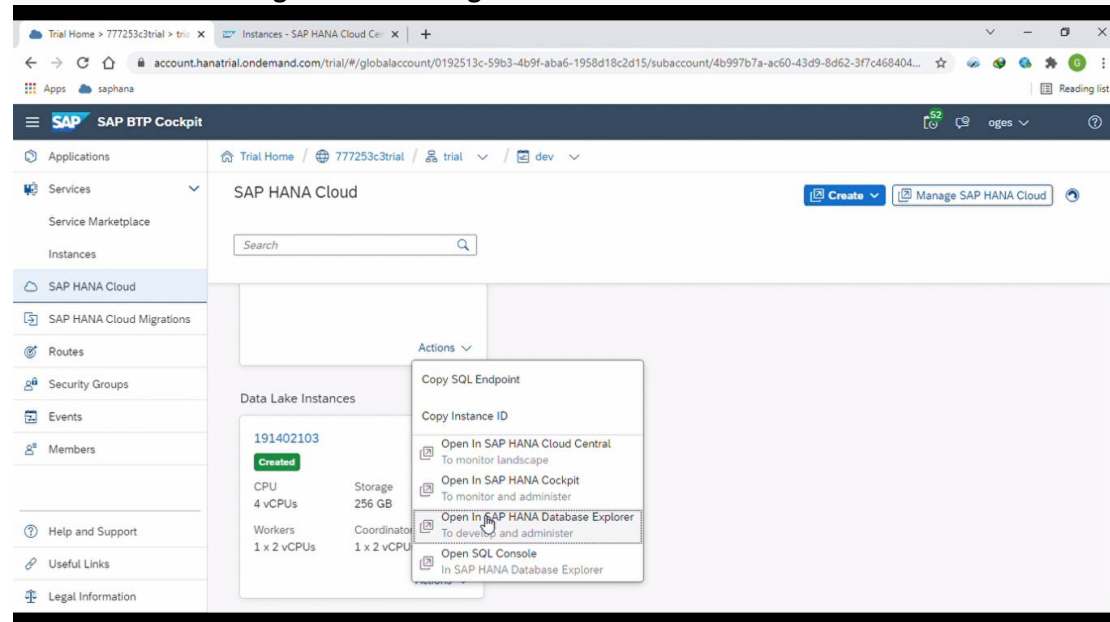


Nama : Grace Ogestin Pasaribu
NIM : 191402103
KOM : A

Module 4 : Connecting to and Creating Data on the SAP HANA Cloud Data Lake



Copy Paste kan query di bawah ini ke dalam SQL console 1

```
CALL SYSRDL#CG.REMOTE_EXECUTE ('
BEGIN
DROP TABLE IF EXISTS `EVENT` ;
CREATE TABLE IF NOT EXISTS EVENT(
    GlobalEventID INTEGER,
    Day DATE,
    MonthYear INTEGER,
    Year INTEGER,
    FractionDate FLOAT,
    Actor1Code VARCHAR(27),
    Actor1Name VARCHAR(1024),
    Actor1CountryCode VARCHAR(3),
```

```

Actor1KnownGroupCode VARCHAR(3),
Actor1EthnicCode VARCHAR(3),
Actor1Religion1Code VARCHAR(3),
Actor1Religion2Code VARCHAR(3),
Actor1Type1Code VARCHAR(3),
Actor1Type2Code VARCHAR(3),
Actor1Type3Code VARCHAR(3),
Actor2Code VARCHAR(27),
Actor2Name VARCHAR(1024),
Actor2CountryCode VARCHAR(3),
Actor2KnownGroupCode VARCHAR(3),
Actor2EthnicCode VARCHAR(3),
Actor2Religion1Code VARCHAR(3),
Actor2Religion2Code VARCHAR(3),
Actor2Type1Code VARCHAR(3),
Actor2Type2Code VARCHAR(3),
Actor2Type3Code VARCHAR(3),
IsRootEvent INTEGER,
EventCode VARCHAR(4),
EventBaseCode VARCHAR(4),
EventRootCode VARCHAR(4),
QuadClass INTEGER,
GoldsteinScale FLOAT,
NumMentions INTEGER,
NumSources INTEGER,
NumArticles INTEGER,
AvgTone FLOAT,
Actor1Geo_Type INTEGER,
Actor1Geo_FullName VARCHAR(120),
Actor1Geo_CountryCode VARCHAR(2),
Actor1Geo_ADM1Code VARCHAR(4),
Actor1Geo_ADM2Code VARCHAR(64),
Actor1Geo_Lat FLOAT,
Actor1Geo_Long FLOAT,
Actor1Geo_FeatureID VARCHAR(10),
Actor2Geo_Type INTEGER,
Actor2Geo_FullName VARCHAR(120),
Actor2Geo_CountryCode VARCHAR(2),
Actor2Geo_ADM1Code VARCHAR(4),
Actor2Geo_ADM2Code VARCHAR(64),
Actor2Geo_Lat FLOAT,
Actor2Geo_Long FLOAT,
Actor2Geo_FeatureID VARCHAR(10),
ActionGeo_Type INTEGER,
ActionGeo_FullName VARCHAR(120),
ActionGeo_CountryCode VARCHAR(2),
ActionGeo_ADM1Code VARCHAR(4),
ActionGeo_ADM2Code VARCHAR(64),
ActionGeo_Lat FLOAT,
ActionGeo_Long FLOAT,
ActionGeo_FeatureID VARCHAR(10),
DateAdded DATETIME,
SourceUrl VARCHAR(1024) );

```

```

DROP TABLE IF EXISTS `GKG`;
CREATE TABLE IF NOT EXISTS GKG(
    GKGRecordId VARCHAR(24),
    DateAdded DATETIME,
    SourceCollectionIdentifier INTEGER,
    SourceCommonName VARCHAR(1024),
    DocumentIdentifier VARCHAR(1024),

```

```

V1Counts TEXT,
V2Counts TEXT,
V1Themes TEXT,
V2EnhancedThemes TEXT,
V1Locations TEXT,
V2EnhancedLocations TEXT,
V1Persons TEXT,
V2EnhancedPersons TEXT,
V1Organizations TEXT,
V2EnhancedOrganizations TEXT,
V2Tone TEXT,
EnhancedDates TEXT,
GCAM TEXT,
SharingImage TEXT,
RelatedImages TEXT,
SocialImageEmbeds TEXT,
SocialVideoEmbeds TEXT,
Quotations TEXT,
AllNames TEXT,
Amounts TEXT,
TranslationInfo TEXT,
ExtrasXML TEXT );

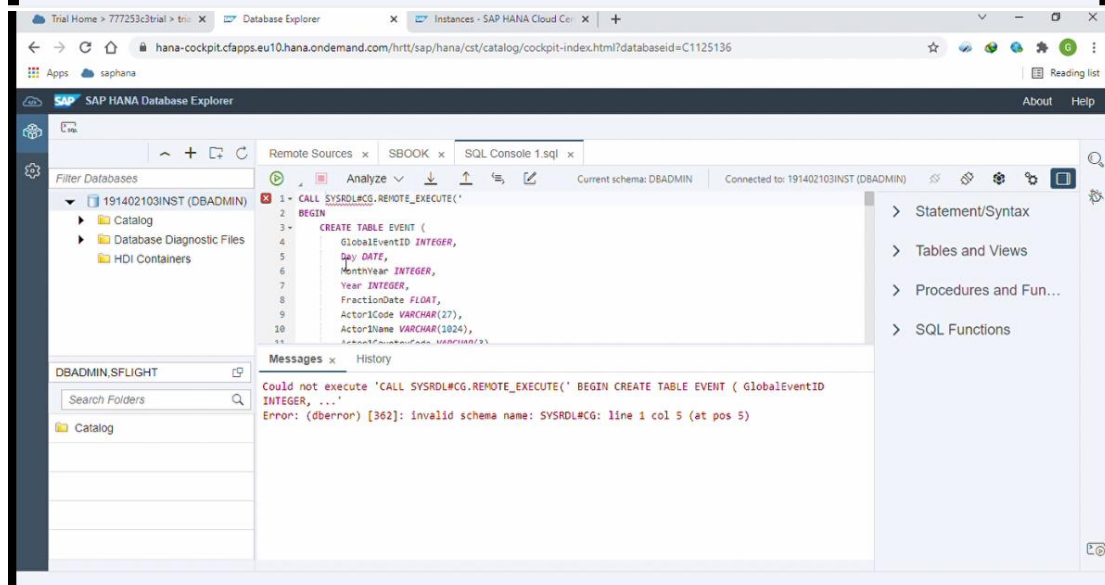
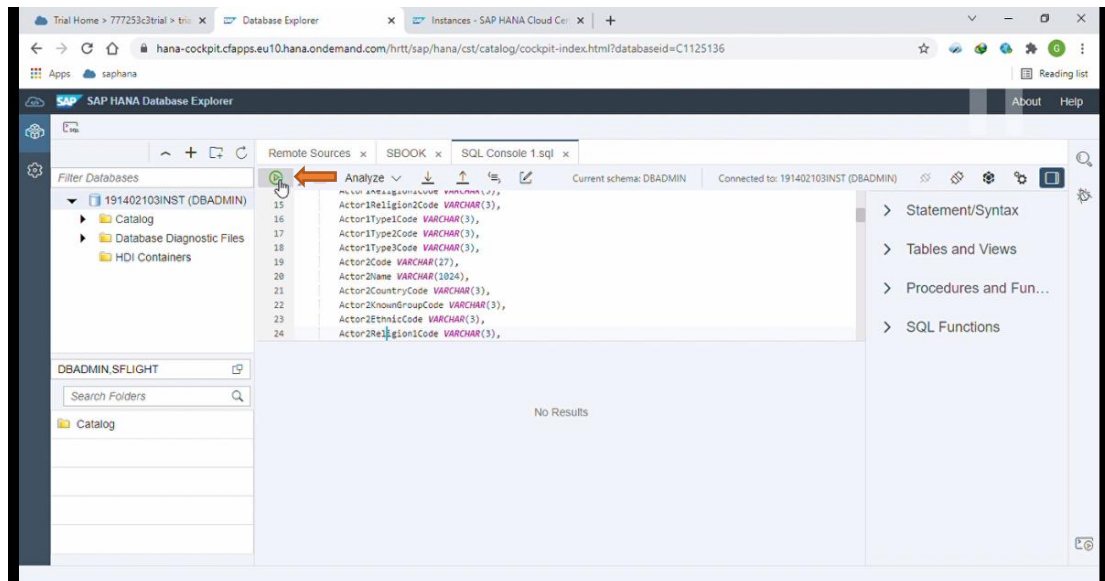
```

```

DROP TABLE IF EXISTS `MENTIONS`;
CREATE TABLE IF NOT EXISTS MENTIONS(
    GlobaleEventID INTEGER,
    EventTimeDate DATETIME,
    MentionTimeDate DATETIME,
    MentionType INTEGER,
    MentionSourceName VARCHAR(1024),
    MentionIdentifier VARCHAR(1024),
    SentenceID INTEGER,
    Actor1CharOffset INTEGER,
    Actor2CharOffset INTEGER,
    ActionCharOffset INTEGER,
    InRawText INTEGER,
    Confidence INTEGER,
    MentionDocLen INTEGER,
    MentionDocTone FLOAT,
    MentionDocTranslationInfo VARCHAR(1024),
    Extras VARCHAR(1024) );

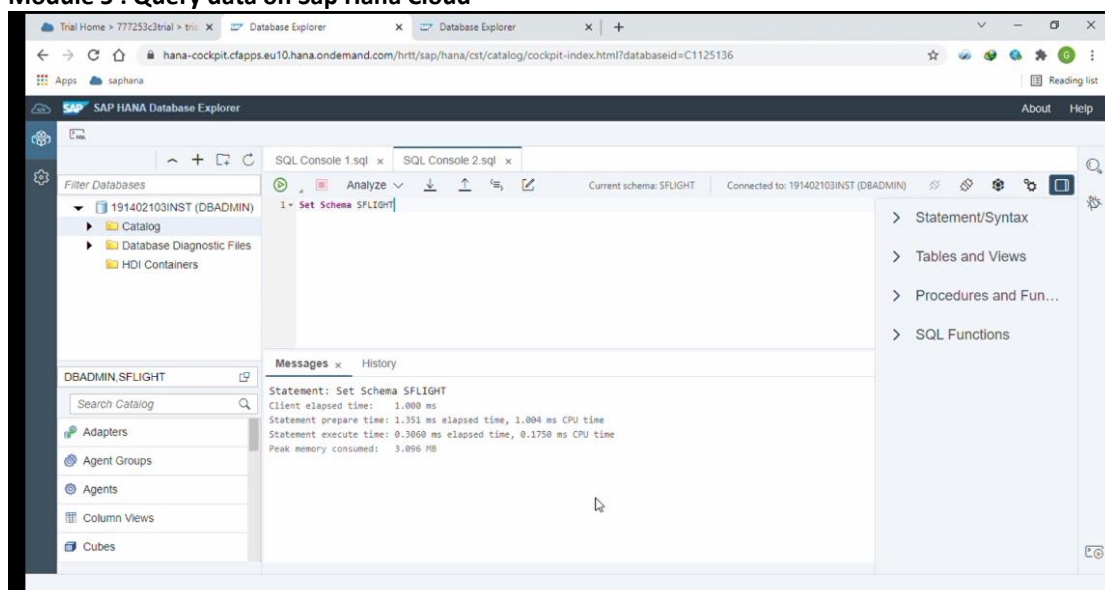
END';

```



Disini saya mengalami error yang menghambat saya melanjutkan ke bagian selanjutnya.

Module 5 : Query data on Sap Hana Cloud



Database Explorer

hana-cockpit.cfapps.eu10.hana.ondemand.com/hrdt/sap/hana/cst/catalog/cockpit-index.html?databaseid=C1125136

SAP HANA Database Explorer

Filter Databases

- 191402103INST (DBADMIN)
 - Catalog
 - Database Diagnostic Files
 - HDI Containers

DBADMIN.SFLIGHT

Search Catalog

Adapters

Agent Groups

Agents

Column Views

Cubes

SQL Console 1.sql x SQL Console 2.sql x

Analyze

Current schema: SFLIGHT Connected to: 191402103INST (DBADMIN)

```
1 CREATE TABLE SAGENCYDATA as (select SBOOK.AGENCYNUM,
2 count(SBOOK.AGENCYNUM) as NUMBOOKINGS from SBOOK, STRAVELAG where
3 SBOOK.AGENCYNUM=STRAVELAG.AGENCYNUM group by SBOOK.AGENCYNUM order by
4 count(SBOOK.AGENCYNUM)desc);
```

Messages x History

Statement: CREATE TABLE SAGENCYDATA as (select SBOOK.AGENCYNUM, count(SBOOK.AGENCYNUM) as NUMBOOKINGS from ...

Client elapsed time: 173.0 ms
Statement prepare time: 4.171 ms elapsed time, 3.766 ms CPU time
Statement execute time: 171.9 ms elapsed time, 910.4 ms CPU time
Peak memory consumed: 23.28 MB

- Statement/Syntax
- Tables and Views (2)
- Procedures and Fun...
- SQL Functions (1)

Database Explorer

hana-cockpit.cfapps.eu10.hana.ondemand.com/hrdt/sap/hana/cst/catalog/cockpit-index.html?databaseid=C1125136

SAP HANA Database Explorer

Filter Databases

- 191402103INST (DBADMIN)
 - Catalog
 - Database Diagnostic Files
 - HDI Containers

DBADMIN.SFLIGHT

Search Catalog

Adapters

Agent Groups

Agents

Column Views

Cubes

SQL Console 1.sql x SQL Console 2.sql x

Analyze

Current schema: SFLIGHT Connected to: 191402103INST (DBADMIN)

```
1 SELECT TOP 5 SAGENCYDATA.AGENCYNUM,
2 STRAVELAG.NAME, SAGENCYDATA.NUMBOOKINGS from SAGENCYDATA INNER JOIN
3 STRAVELAG on SAGENCYDATA.AGENCYNUM = STRAVELAG.AGENCYNUM;
```

Result x Messages x History

Rows (5)

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

- Statement/Syntax
- Tables and Views (2)
- Procedures and Fun...
- SQL Functions

SAP HANA Database Explorer interface showing a SQL console session. The console displays a CREATE TABLE statement for STOPAGENCY, which is a subquery of SAGENCYDATA. The Messages pane shows the execution details: Statement: CREATE TABLE STOPAGENCY as (select top 5 SAGENCYDATA.AGENCYNUM, ...). The interface includes a left sidebar with database navigation, a top toolbar with SQL actions, and a right sidebar with a table of contents.

SQL Console 1.sql x SQL Console 2.sql x

Filter Databases

- 191402103INST (DBADMIN)
- Catalog
- Database Diagnostic Files
- HDI Containers

DBADMIN.SFLIGHT

Search Catalog

Adapters

Agent Groups

Agents

Column Views

Cubes

Messages x History

Statement: CREATE TABLE STOPAGENCY as (select top 5 SAGENCYDATA.AGENCYNUM, ...)

Client elapsed time: 30.00 ms

Statement prepare time: 3.673 ms elapsed time, 3.128 ms CPU time

Statement execute time: 28.27 ms elapsed time, 26.27 ms CPU time

Peak memory consumed: 6.284 MB

- Statement/Syntax
- Tables and Views (2)
- Procedures and Fun...
- SQL Functions

SAP HANA Database Explorer interface showing a SQL console session. The console displays a SELECT statement from STOPAGENCY. The Messages pane shows the execution details: Statement: SELECT FROM STOPAGENCY. The interface includes a left sidebar with database navigation, a top toolbar with SQL actions, and a right sidebar with a table of contents.

SQL Console 1.sql x SQL Console 2.sql x

Filter Databases

- 191402103INST (DBADMIN)
- Catalog
- Database Diagnostic Files
- HDI Containers

DBADMIN.SFLIGHT

Search Catalog

Adapters

Agent Groups

Agents

Column Views

Cubes

Messages x History

Statement: SELECT FROM STOPAGENCY

Client elapsed time: 30.00 ms

Statement prepare time: 3.673 ms elapsed time, 3.128 ms CPU time

Statement execute time: 28.27 ms elapsed time, 26.27 ms CPU time

Peak memory consumed: 6.284 MB

- Statement/Syntax
- Tables and Views (1)
- Procedures and Fun...
- SQL Functions

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

SAP HANA Database Explorer interface showing a SQL console session. The console displays a CREATE TABLE statement for SAGBOOKDAYS, which is a subquery of SAGENCYDATA. The Messages pane shows the execution details: Statement: CREATE TABLE SAGBOOKDAYS as (select AGENCYNUM, dayname(ORDER_DATE) as ORDERDAY, ...). The interface includes a left sidebar with database navigation, a top toolbar with SQL actions, and a right sidebar with a table of contents.

SQL Console 1.sql x SQL Console 2.sql x

Filter Databases

- 191402103INST (DBADMIN)
- Catalog
- Database Diagnostic Files
- HDI Containers

DBADMIN.SFLIGHT

Search Catalog

Adapters

Agent Groups

Agents

Column Views

Cubes

Messages x History

Statement: CREATE TABLE SAGBOOKDAYS as (select AGENCYNUM, dayname(ORDER_DATE) as ORDERDAY, ...)

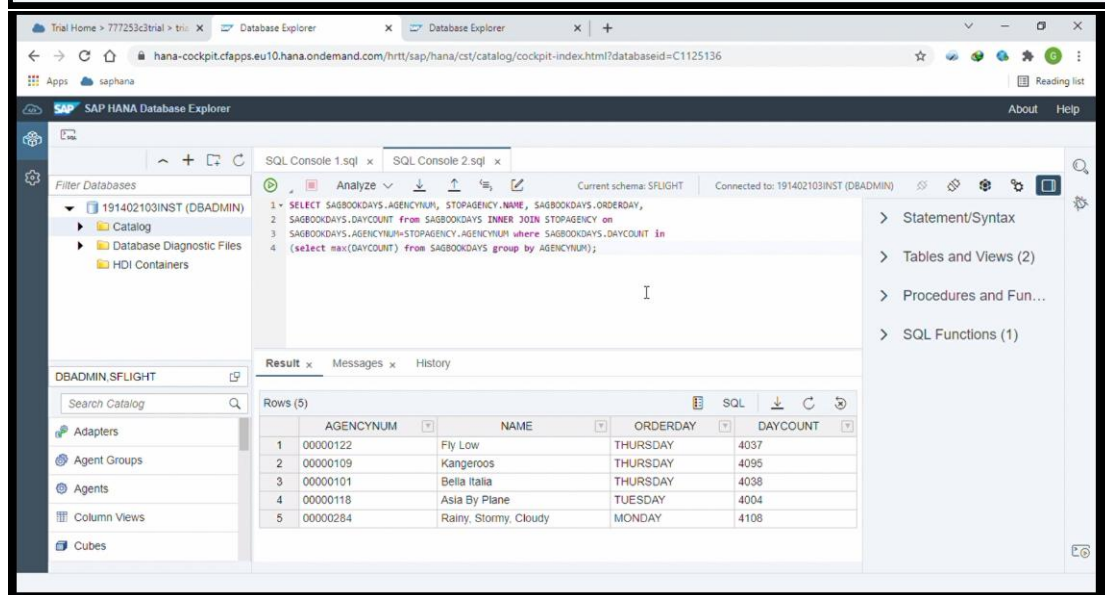
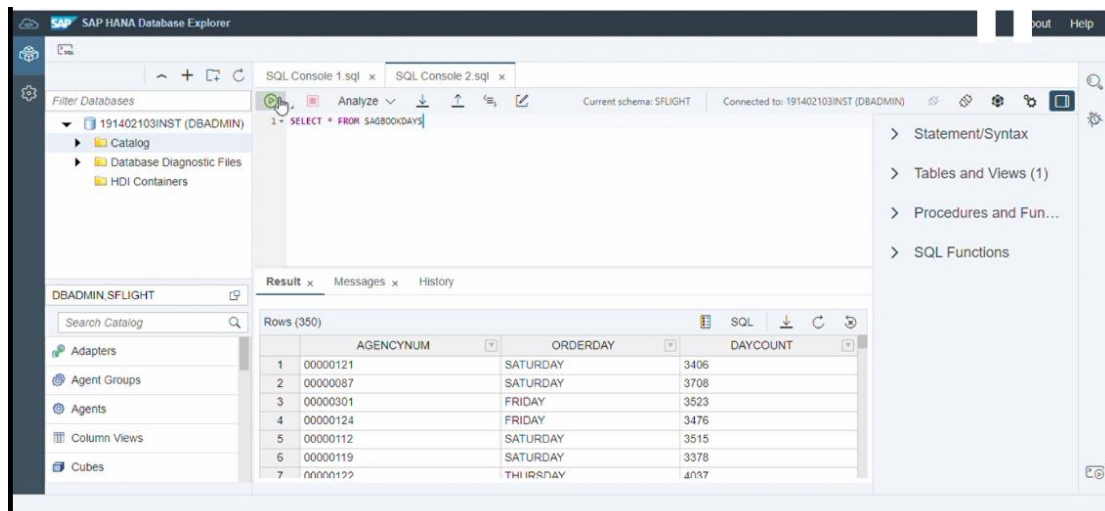
Client elapsed time: 274.0 ms

Statement prepare time: 4.880 ms elapsed time, 3.552 ms CPU time

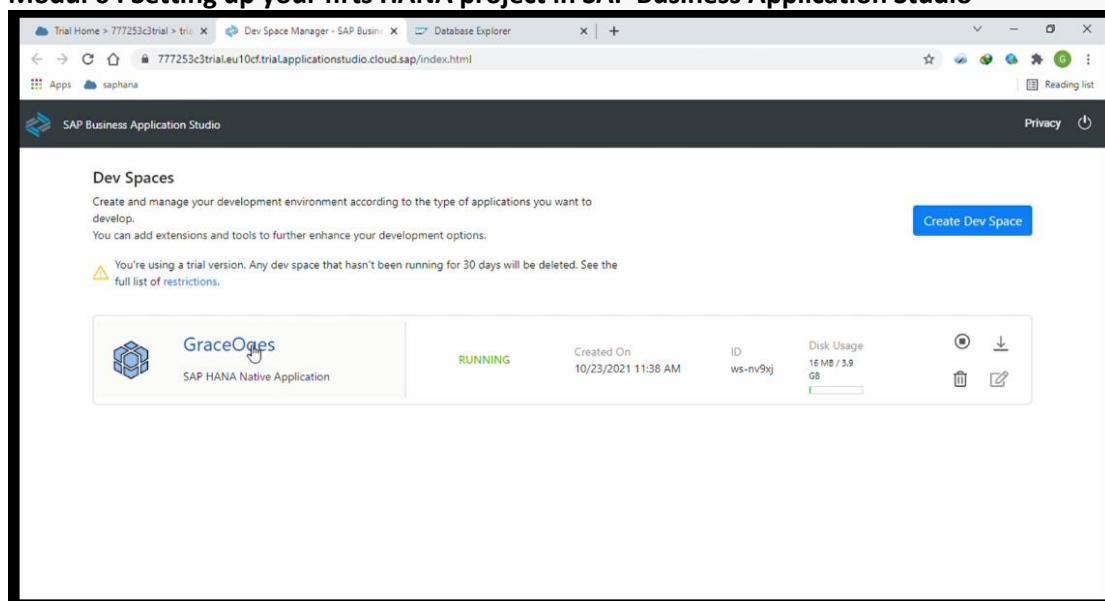
Statement execute time: 272.4 ms elapsed time, 3.414 s CPU time

Peak memory consumed: 29.94 MB

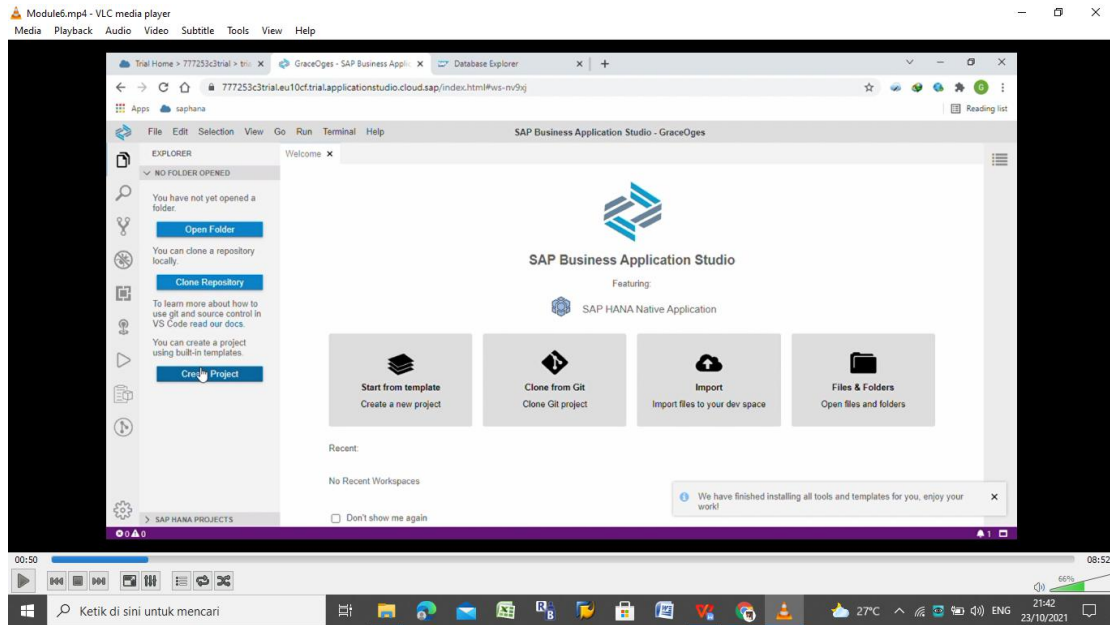
- Statement/Syntax
- Tables and Views (1)
- Procedures and Fun...
- SQL Functions (2)



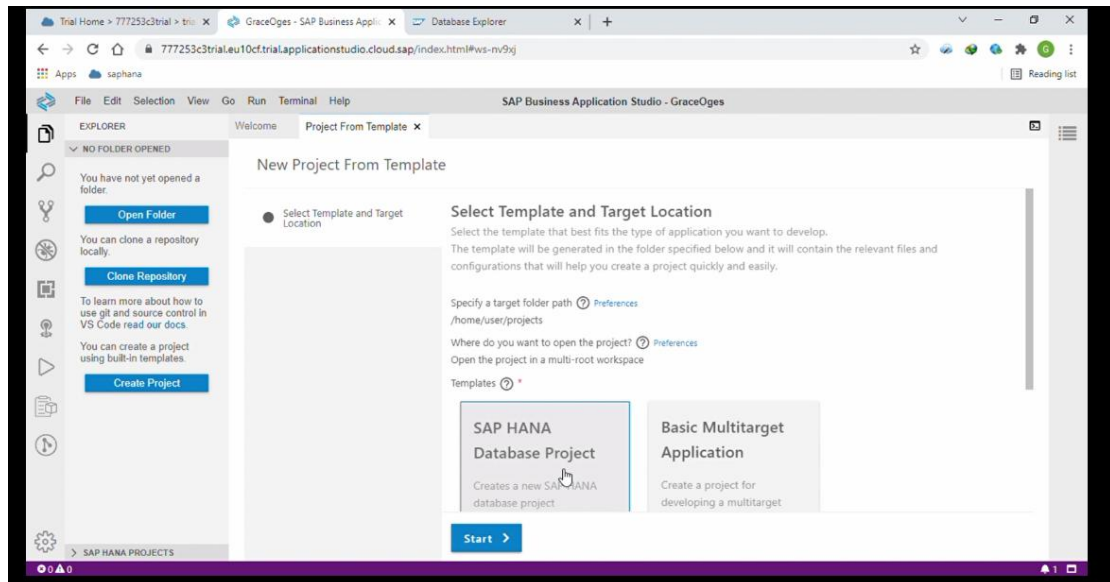
Modul 6 : Setting up your first HANA project in SAP Business Application Studio



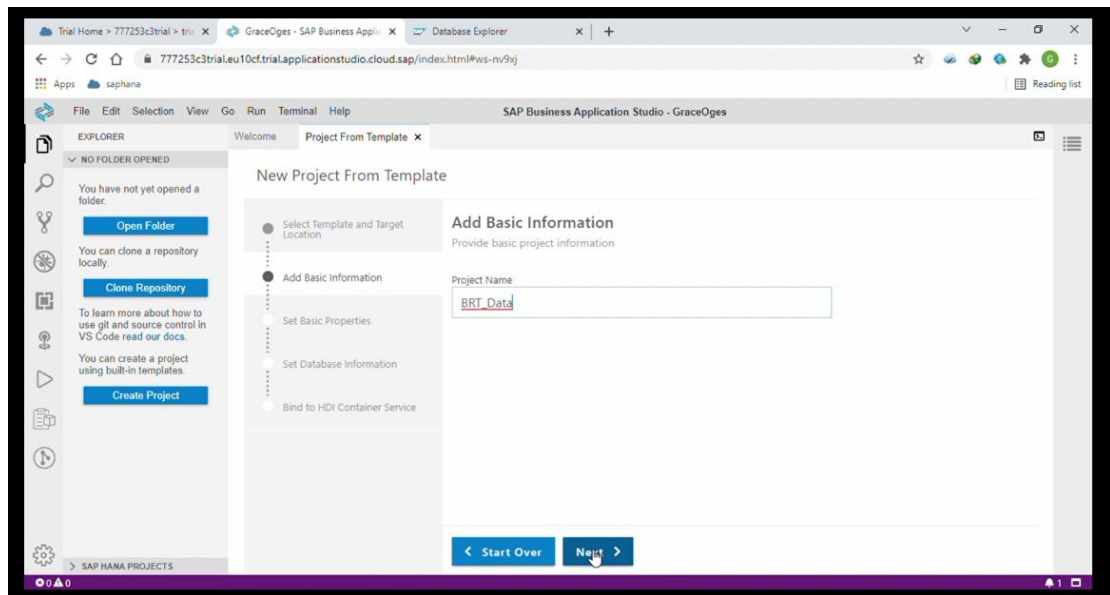
Pertama buat dev spaces dari instruction lalu buat nama dengan nama anda sendiri



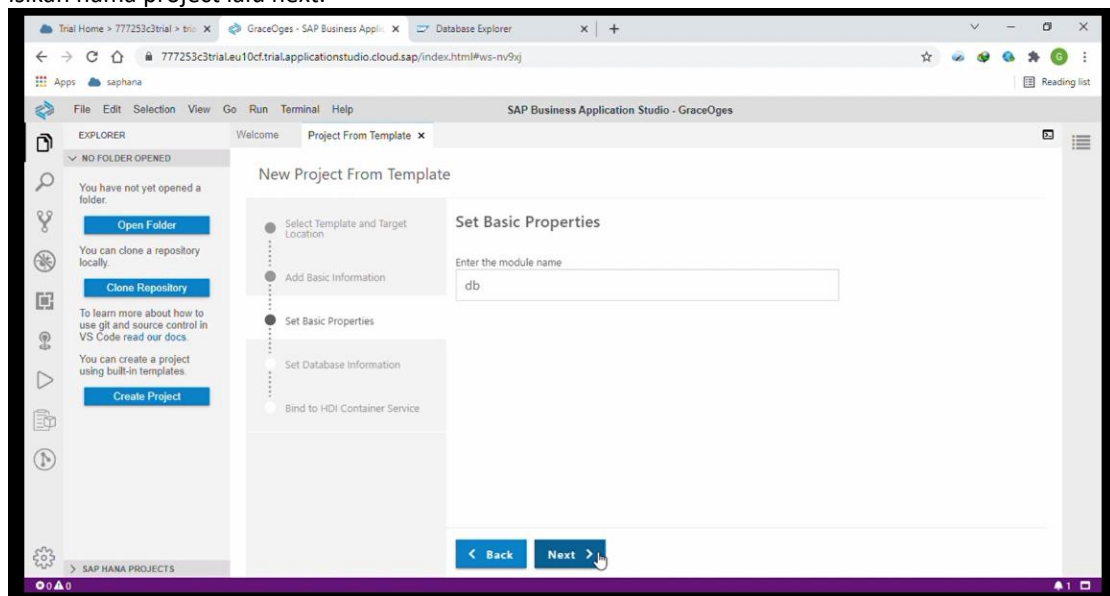
Lalu kita buat project



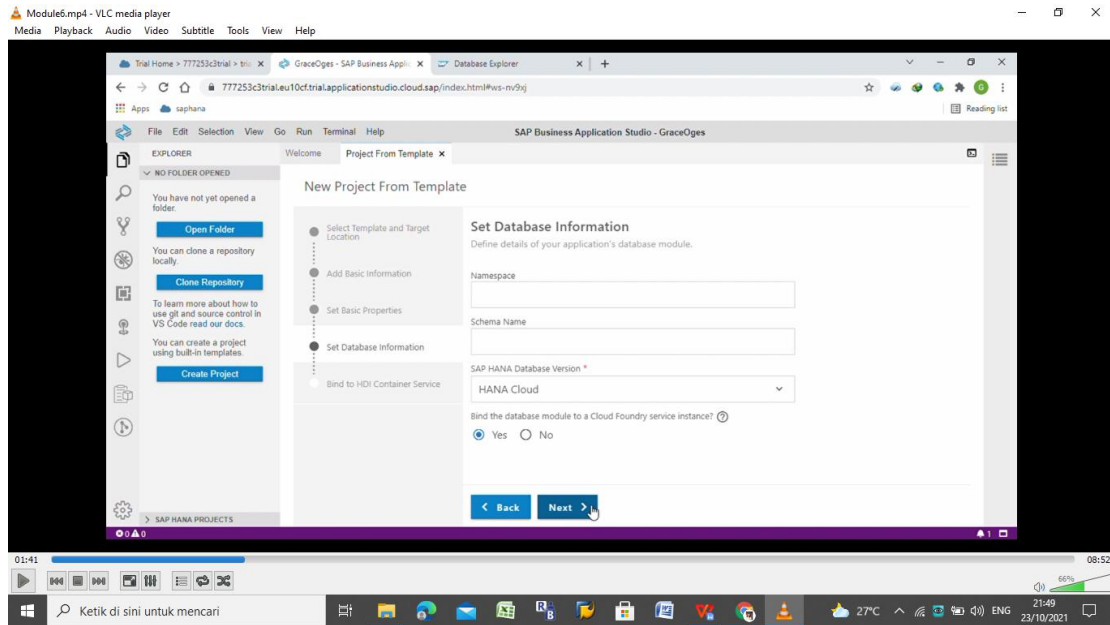
Klik sap hana Database Project lalu Start



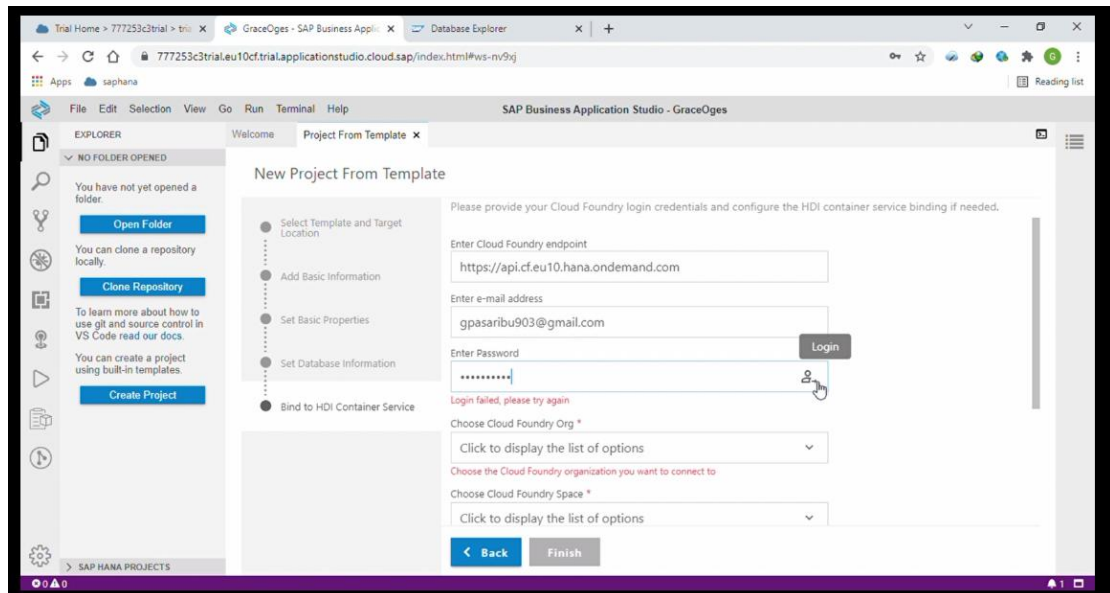
Isikan nama project lalu next.



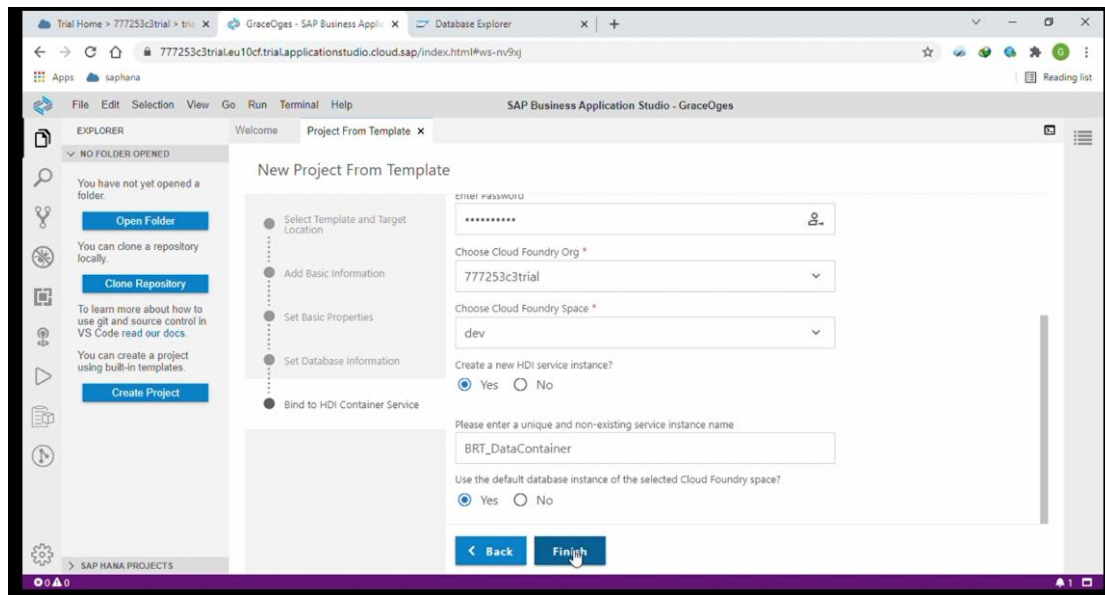
Masukkan db sebagai basic properties lalu next



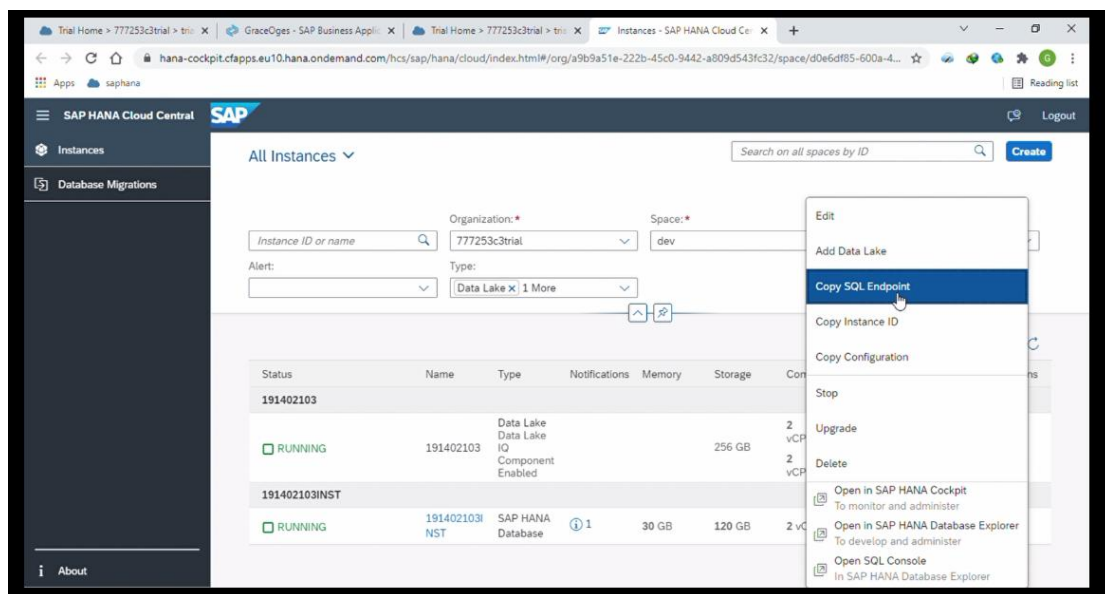
Pastikan sap hana berisikan HANA CLOUD dan kosongkan namespace serta schema name lalu Next



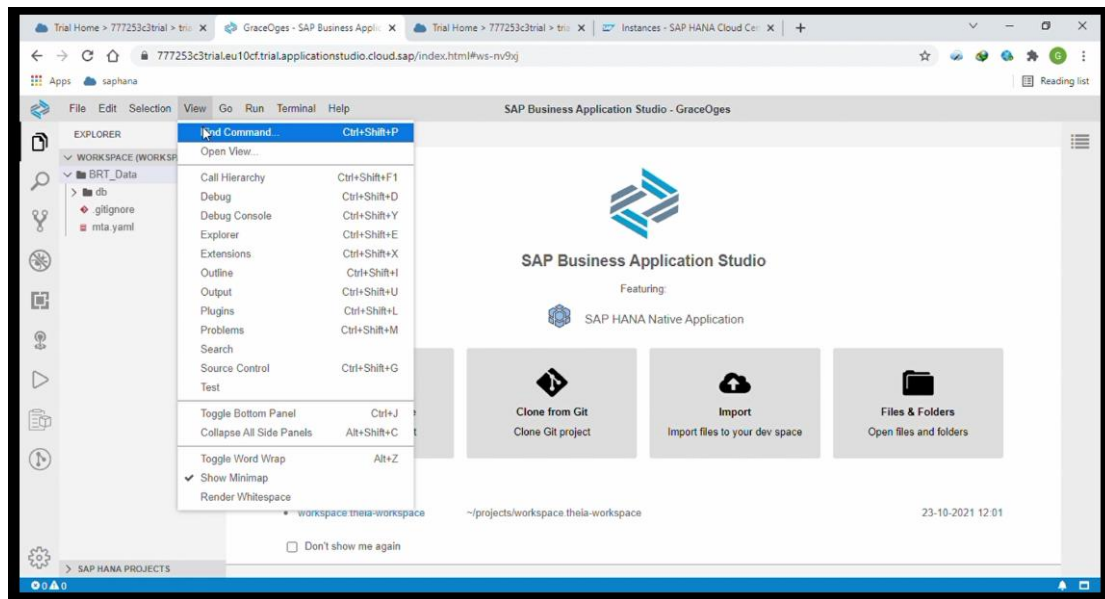
Isi email dan password lalu login.



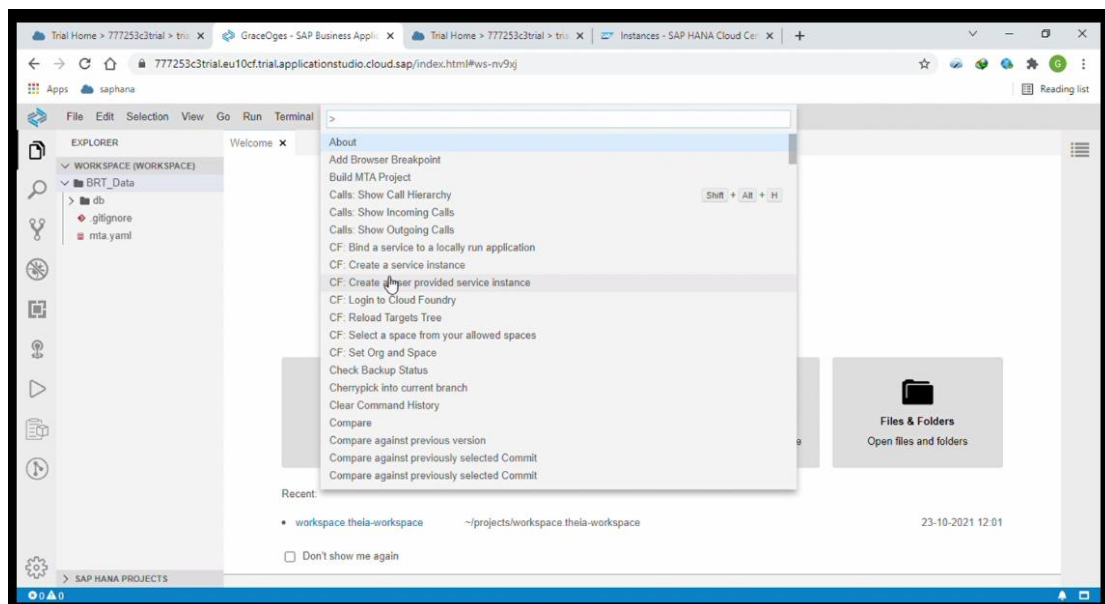
Lalu gantikan nama BRT_ MENJADI BRT_DataContainer lalu Finish



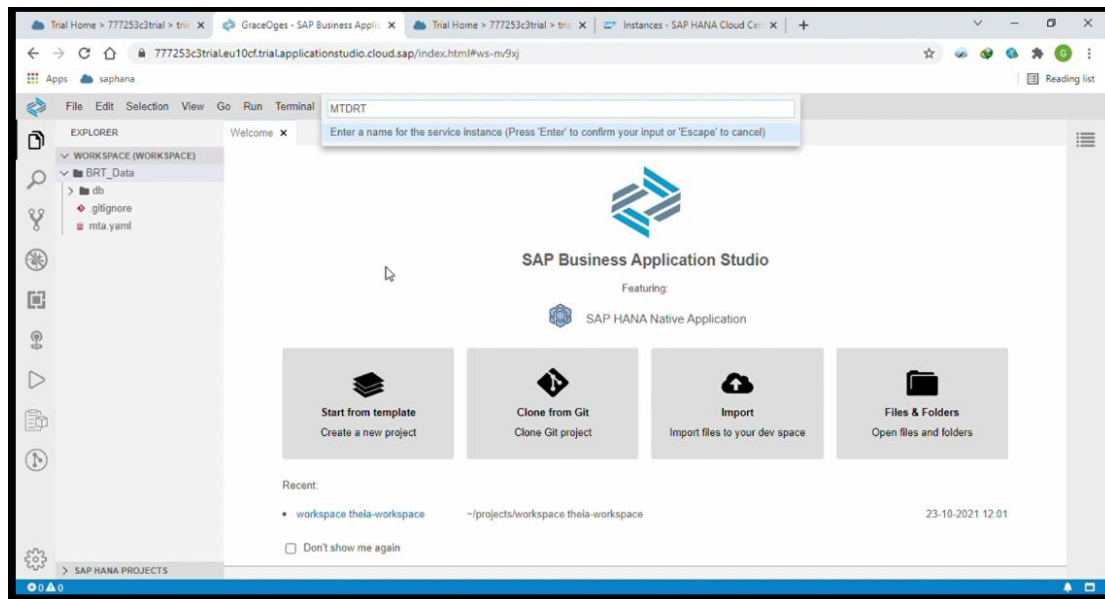
Sebelum melanjutkan ke step selanjutnya, terlebih dahulu copy SQL Endpoint dari database SAP HANA.



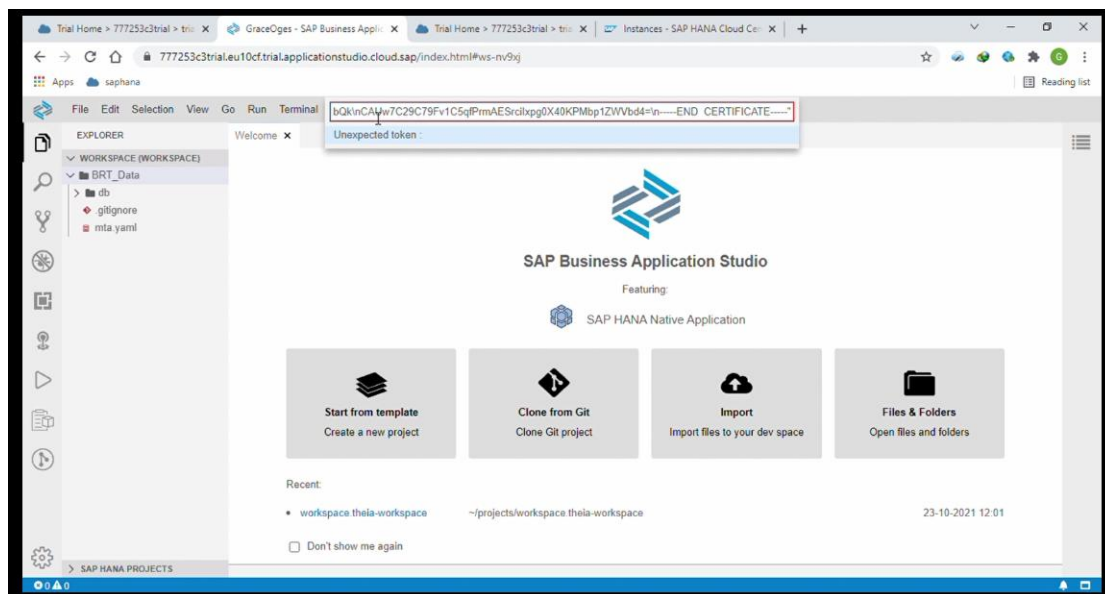
Setelah itu kembali ke jendela tadi , lalu klik view pilih Find Command.



Untuk membuat user pilih CF Create User



Lalu isikan nama untuk project.



Lalu copy paste certificate dan enter.

