

Nama : Vincent Sirait

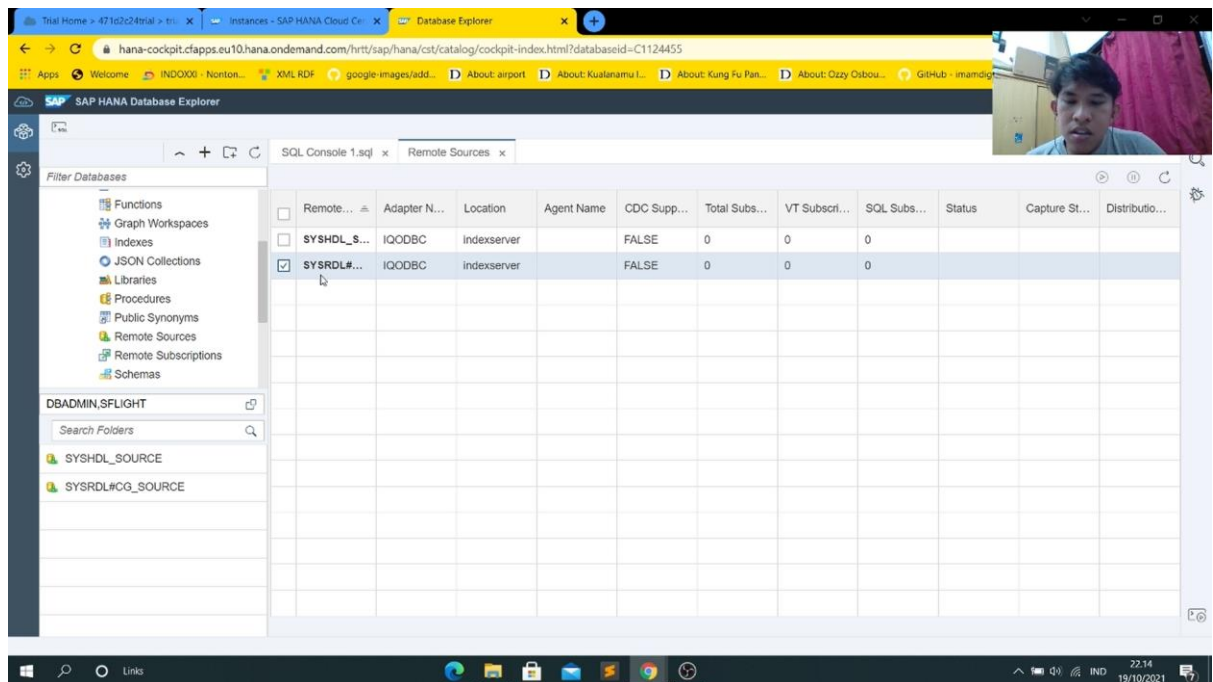
NIM : 191402081

KOM : A

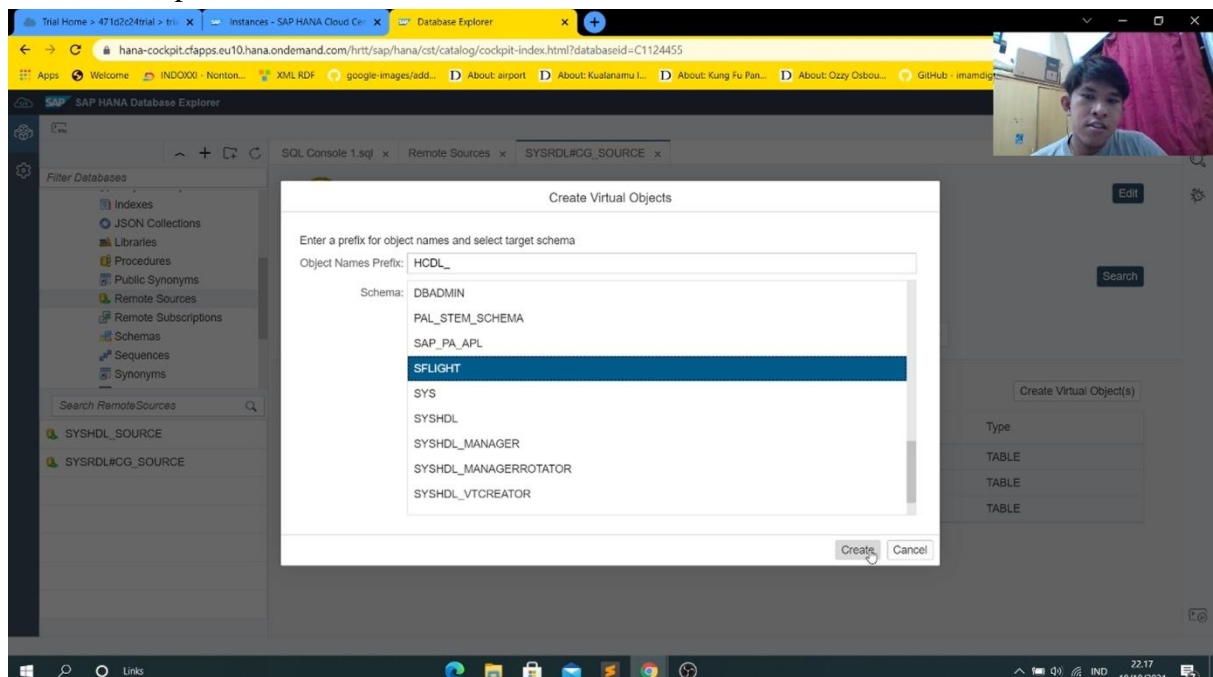
Mata Kuliah : Enterprise Development Software

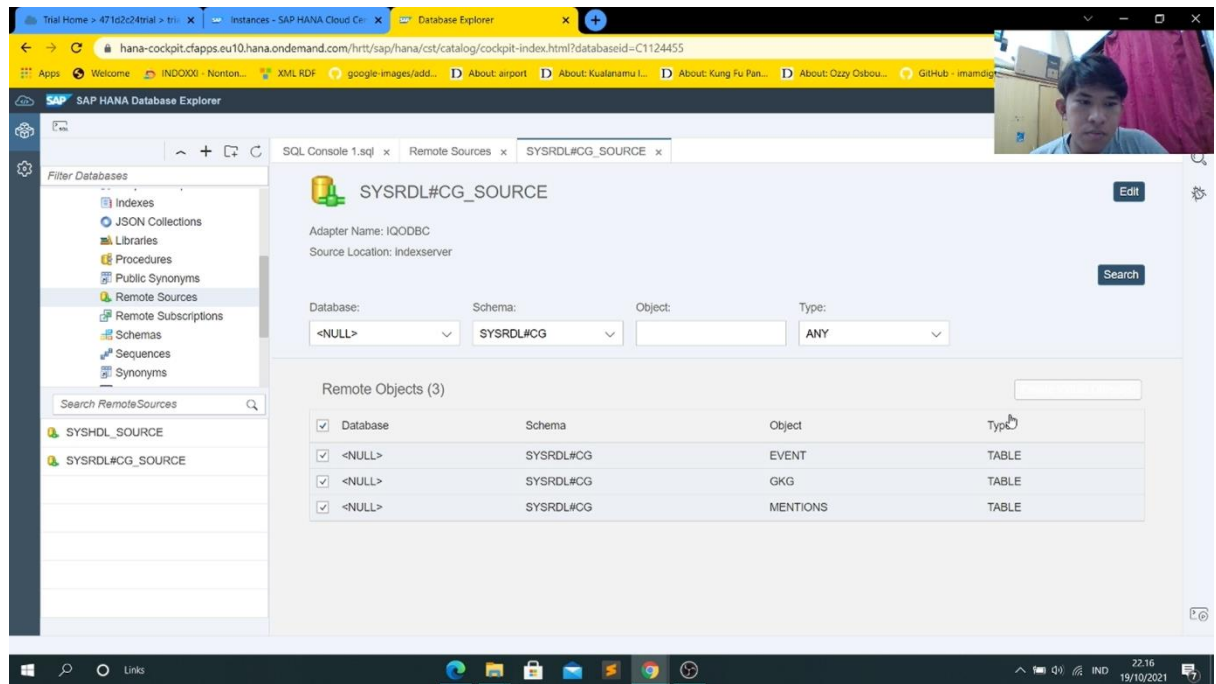
## Laporan UTS EDS

### 1. Show remote source

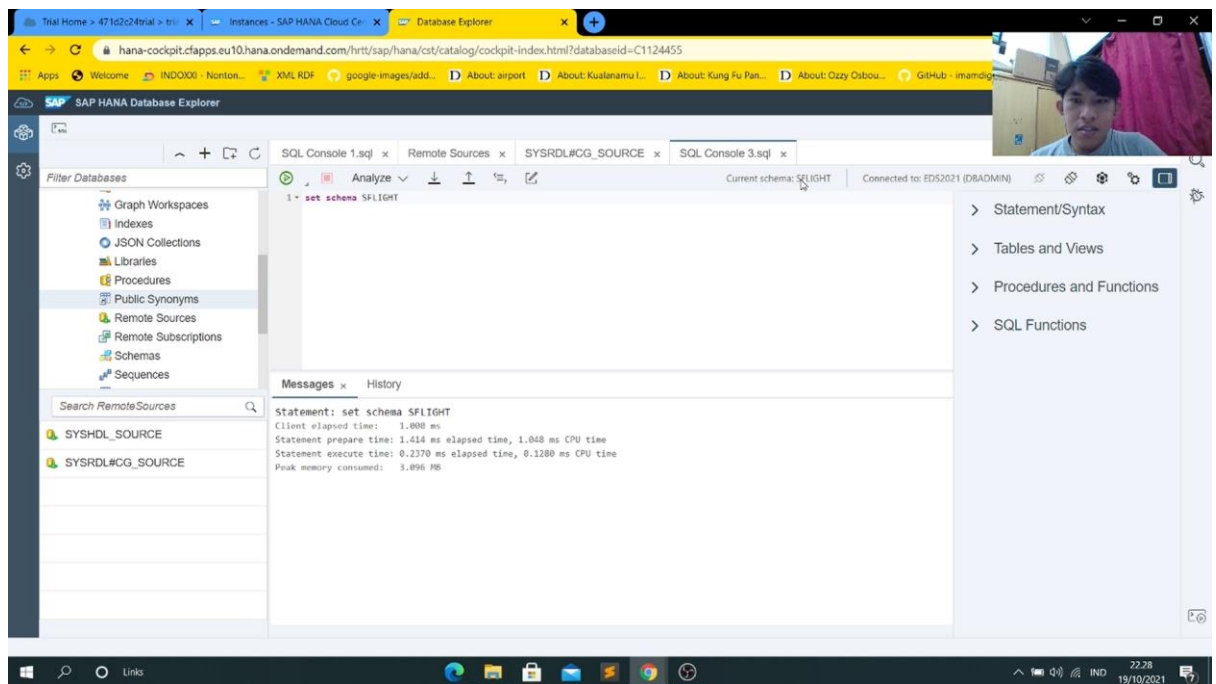


### 2. Set source seperti berikut :





3. menetapkan sql. Pertama” set schema ke SFLIGHT dengan query seperti berikut



#### 4. membuat table agency data

The screenshot shows the SAP HANA Database Explorer interface. The SQL Console 1.sql tab is active, displaying the following SQL statement:

```
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);
```

The Messages pane shows the execution results:

```
Statement: set schema SFLIGHT  
Client elapsed time: 1.000 ms  
Statement prepare time: 1.414 ms elapsed time, 1.048 ms CPU time  
Statement execute time: 0.2370 ms elapsed time, 0.1280 ms CPU time  
Peak memory consumed: 3.896 MB
```

The left sidebar shows the database structure, including Schemas, Remote Sources, and Sequences. The right sidebar shows the navigation pane with options like Statement/Syntax, Tables and Views, Procedures and Functions, and SQL Functions.

#### 5. menampilkan table agencydata

The screenshot shows the SAP HANA Database Explorer interface. The SQL Console 3.sql tab is active, displaying the following SQL statement:

```
1 SELECT * FROM SAGENCYDATA
```

The Result pane shows the data returned by the query:

AGENCYNUM	NUMBOOKINGS
00000284	27870
00000122	27869
00000109	27867
00000101	27866
00000118	27416
00000087	25936
00000061	25935
00000113	24459
00000093	24458

SAP HANA Database Explorer

Filter Databases

- Graph Workspaces
- Indexes
- JSON Collections
- Libraries
- Procedures
- Public Synonyms
- Remote Sources
- Remote Subscriptions
- Schemas
- Sequences

Search RemoteSources

SYSHDL\_SOURCE

SYSRDL#CG\_SOURCE

SQL Console 1.sql x Remote Sources x SYSRDL#CG\_SOURCE x SQL Console 3.sql x

Analyze

Current schema: SFLIGHT Connected to: ED52021 (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 Functions

SQL Functions

SAP HANA Database Explorer

Filter Databases

- Graph Workspaces
- Indexes
- JSON Collections
- Libraries
- Procedures
- Public Synonyms
- Remote Sources
- Remote Subscriptions
- Schemas
- Sequences

Search RemoteSources

SYSHDL\_SOURCE

SYSRDL#CG\_SOURCE

SQL Console 1.sql x Remote Sources x SYSRDL#CG\_SOURCE x SQL Console 3.sql x

Analyze

Current schema: SFLIGHT Connected to: ED52021 (DBADMIN)

```
1. CREATE TABLE STOPAGENCY as (select top 5 SAGENCYDATA.AGENCYNUM,  
2. STRAVELAG.NAME,SAGENCYDATA.NUMBOOKINGS FROM SAGENCYDATA INNER JOIN  
3. STRAVELAG ON SAGENCYDATA.AGENCYNUM = STRAVELAG.AGENCYNUM);
```

Messages x History

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

Client elapsed time: 30.08 ms

Statement prepare time: 3.746 ms elapsed time, 3.062 ms CPU time

Statement execute time: 27.73 ms elapsed time, 25.83 ms CPU time

Peak memory consumed: 6.204 MB

Statement/Syntax

Tables and Views (2)

Procedures and Functions

SQL Functions

SAP HANA Database Explorer

Filter Databases

- Graph Workspaces
- Indexes
- JSON Collections
- Libraries
- Procedures
- Public Synonyms
- Remote Sources
- Remote Subscriptions
- Schemas
- Sequences

Search RemoteSources

SYSHDL\_SOURCE

SYSRDL#CG\_SOURCE

SQL Console 1.sql x Remote Sources x SYSRDL#CG\_SOURCE x SQL Console 3.sql x

Analyze

Current schema: SFLIGHT Connected to: ED52021 (DBADMIN)

1. SELECT \* FROM SAGBOOKDAYS

Result Messages History

Rows (350)

	AGENCYNUM	ORDERDAY	DAYCOUNT
1	00000121	SATURDAY	3406
2	00000087	SATURDAY	3708
3	00000301	FRIDAY	3523
4	00000124	FRIDAY	3476
5	00000112	SATURDAY	3515
6	00000119	SATURDAY	3378
7	00000103	THURSDAY	3470
8	00000115	TUESDAY	3532
9	00000152	THURSDAY	2734

Statement/Syntax

Tables and Views (1)

Procedures and Functions

SQL Functions

SAP HANA Database Explorer

Filter Databases

- Graph Workspaces
- Indexes
- JSON Collections
- Libraries
- Procedures
- Public Synonyms
- Remote Sources
- Remote Subscriptions
- Schemas
- Sequences

Search RemoteSources

SYSHDL\_SOURCE

SYSRDL#CG\_SOURCE

SQL Console 1.sql x Remote Sources x SYSRDL#CG\_SOURCE x SQL Console 3.sql x

Analyze

Current schema: SFLIGHT Connected to: ED52021 (DBADMIN)

1. SELECT SAGBOOKDAYS.AGENCYNUM, STOPAGENCY.NAME, SAGBOOKDAYS.ORDERDAY,  
2. SAGBOOKDAYS.DAYCOUNT FROM SAGBOOKDAYS INNER JOIN STOPAGENCY ON  
3. SAGBOOKDAYS.AGENCYNUM=STOPAGENCY.AGENCYNUM where SAGBOOKDAYS.DAYCOUNT in  
4. (select max(DAYCOUNT) from SAGBOOKDAYS group by AGENCYNUM);

Result Messages History

Rows (5)

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

Statement/Syntax

Tables and Views (2)

Procedures and Functions

SQL Functions (1)



SAP HANA Cloud Trial | Trial Home > 471d2c24trial > trial | Instances - SAP HANA Cloud Cloud | Database Explorer

account.hanatrial.ondemand.com/trial/#/globalaccount/d96ee911-60e9-4665-8f9e-96dcc1ef1b57/subaccount/5e47d3a1-2dce-493d-a10f-5617c53aef62/service-instances

SAP SAP BTP Cockpit

Overview | Services | Service Marketplace | Instances and Subscriptions | Cloud Foundry | Spaces | Quota Plans | Org Members | HTML5 Applications | Connectivity | Security | Entitlements | Usage Analytics | Help and Support | Useful Links | Legal Information

### Subaccount: trial - Instances and Subscriptions

Create

To manage the Cloud Foundry user-provided service instances, navigate to Cloud Foundry - Spaces, select your space, and then from Services select Service Instances.

Search [ ] All Services [v] All Plans [v] All Statuses [v]

Subscriptions (1) | Instances (4) | Environments (1)

Applications to which your subaccount is currently subscribed

Application	Plan	Created On	Changed On	Status	
SAP Business Application Studio	trial	15/09/2021	15/09/2021	Subscribed	...

### Instances (4)

Service instances created in: Cloud Foundry | Kyma/Kubernetes | Other environments

Instance	Service	Plan	Runtime Environment	Scope	Credentials	Status	
191402081EDS...	SAP HANA Cloud	relational-data-lake	Cloud Foundry	dev		Created	...
191402081EDS...	SAP HANA Cloud	hana-cloud-connection	Cloud Foundry	dev		Created	...

SAP HANA Cloud Trial | Trial Home > 471d2c24trial > trial | Instances - SAP HANA Cloud Cloud | Database Explorer

account.hanatrial.ondemand.com/trial/#/globalaccount/d96ee911-60e9-4665-8f9e-96dcc1ef1b57/subaccount/5e47d3a1-2dce-493d-a10f-5617c53aef62/service-marketplace

SAP SAP BTP Cockpit

Overview | Services | Service Marketplace | Instances and Subscriptions | Cloud Foundry | Spaces | Quota Plans | Org Members | HTML5 Applications | Connectivity | Security | Entitlements | Usage Analytics | Help and Support | Useful Links | Legal Information

### Subaccount: trial - Service Marketplace

Filtered: 1 of 64

SAP bu [x] All Types [v] All Environments [v] All Capabilities [v] All Statuses [v]

#### Extension Suite - Development Efficiency

Create

SAP Business Application Studio  
Develop, debug, test, and deploy applications.

Instances and Subscriptions

Go to Application

**SAP BTP Cockpit**

Overview

Services

Service Marketplace

Instances and Subscriptions

Cloud Foundry

Spaces

Quota Plans

Org Members

HTML5 Applications

Connectivity

Security

Entitlements

Usage Analytics

Help and Support

Useful Links

Legal Information

**Subaccount: trial - Instances and Subscriptions**

Create

Subscriptions (1)

Applications to which your subaccount is currently subscribed

Application	Status
SAP Business A...	Subscribed

Instances (4)

Service instances created in: Cloud Foundry | Kyma/Kubernetes | Other environments

Instance	Status
191402081EDS...	Created
191402081EDS...	Created
EDS2021	Created
EDS21-conn	Creation Failed

**SAP Business Application Studio**

Plan: trial Created On: 15/09/2021 Status: Subscribed Changed On: 15/09/2021

Go to Application

Overview Roles

SAP Business Application Studio is the next generation of SAP Web IDE, offering a modular development environment tailored for efficient development of business applications for the SAP Intelligent Enterprise. It provides pre-configured environments where you can develop, build, test and run using pre-installed runtimes and tools tailored for key scenarios such as: S/4HANA extensions, full stack business applications, Fiori applications and more. It supports quick integration with SAP solutions and services to allow building smarter and more intelligent applications.

Additional Links

Documentation

Discovery Center

**Explore the SAP Business Application Studio**

This site is governed by the [SAP Business Application Studio Trial Privacy Statement](#).

☒ Do not show this message again

OK

SAP HANA Cloud Trial

Trial Home > 471d2c24trial > 911

Dev Space Manager - SAP Busin...

Instances - SAP HANA Cloud Co...

Database Explorer

471d2c24trial.eu10cf.trial.applicationstudio.cloud.sap/index.html

Apps

Welcome

INDOXXI - Norton...

XML RDF

google-images/add...

About: airport

About: Kulanamu L...

About: Kung Fu Pan...

About: Ozzy Osbou...

GitHub - imandig...

SAP Business Application Studio

Create a New Dev Space

BestRunTravel

What kind of application do you want to create?

☐ SAP Fiori

☐ Full Stack Cloud Application

☒ SAP HANA Native Application


☐ SAP Mobile Application

SAP HANA Native Application Dev Space


Build and deploy native SAP HANA applications or analytical models. This dev space contains a comprehensive set of editors to support the creation of database artifacts (calculation views, tables, SQLScript procedures, and more), as well as tools to enable an end-to-end development flow from project creation to the deployment to the SAP Cloud Platform.

SAP Predefined Extensions


The following extensions are enabled by default.




**Basic Tools**  
Allows you to optimize your web development workflow. The extension includes capabilities such as ...  
[more](#)



**SAP HANA Calculation View Editor**  
Allows you to edit and manage SAP HANA calculation views. The extension includes the SAP HANA...  
[more](#)




**SAP HANA Database Explorer**  
Allows you to access and inspect SAP HANA run-time objects. The extension includes a command that open...  
[more](#)




**SAP HANA Tools**

Additional SAP Extensions


Select additional extensions to enhance your space.

☐ 


**SAPUI5 Adaptation Project**  
Allows to extend SAPUI5 applications using Adaptation project and Visual Editor

☐ 

**CDS Graphical Modeler**  
Allows you to design SAP core data services models in SAP cloud business application...  
[more](#)

☐ 

**CAP Tools**  
Allows you to develop CAP applications using the CDS command-line and tools. Includes enhance...  
[more](#)

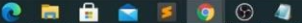
☐ 

**SAP HANA Performance Tools**

Cancel

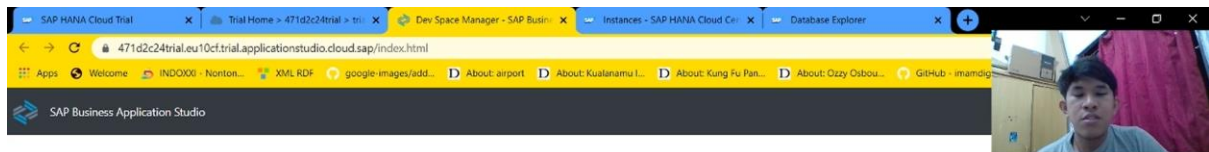
Create Dev Space

Links



23:36  
19/10/2021






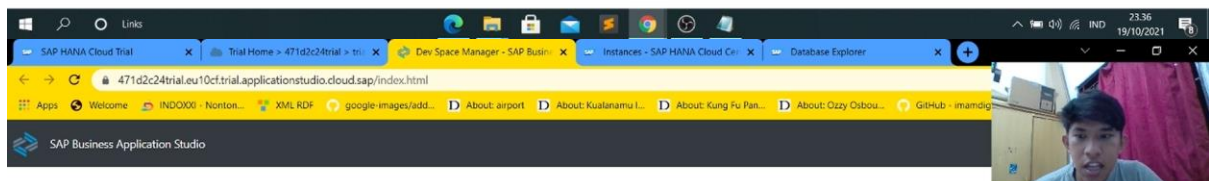
## Dev Spaces

Create and manage your development environment according to the type of applications you want to develop. You can add extensions and tools to further enhance your development options.

Create Dev Space

You're using a trial version. Any dev space that hasn't been running for 30 days will be deleted. See the full list of [restrictions](#).

 <b>BestRunTravel</b> SAP HANA Native Application	STARTING	Created On 10/19/2021 11:36 PM	ID ws-r7j4d	Disk Usage Currently unavailable	   
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## Dev Spaces

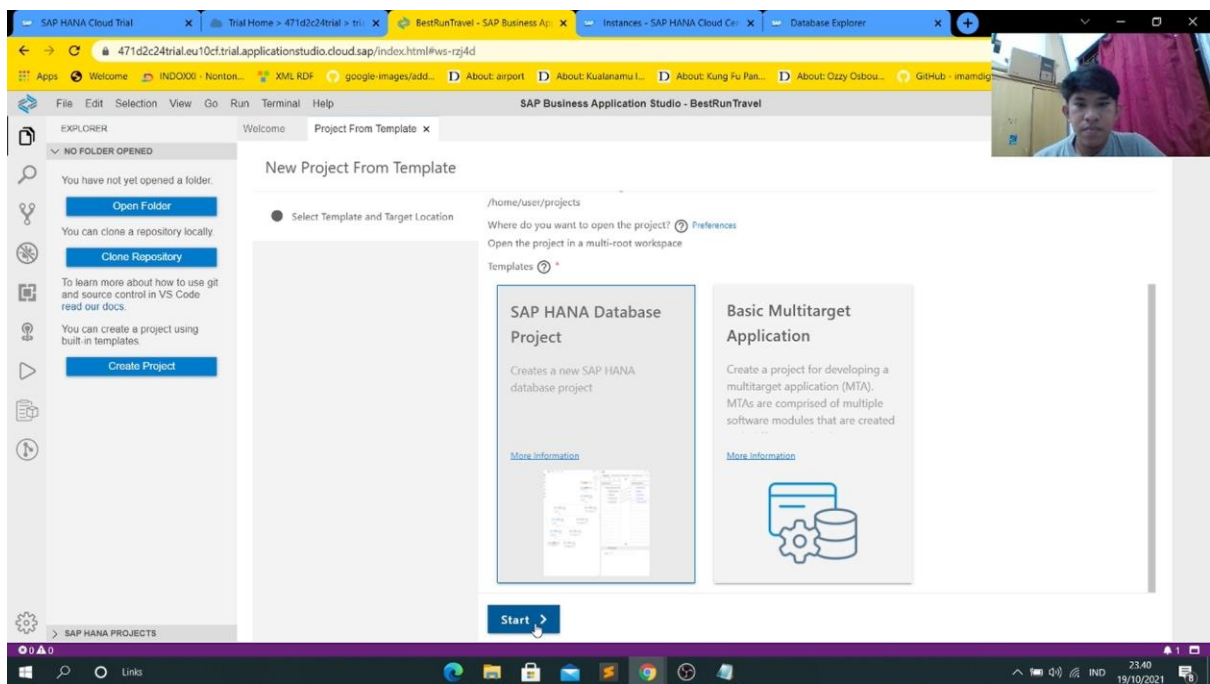
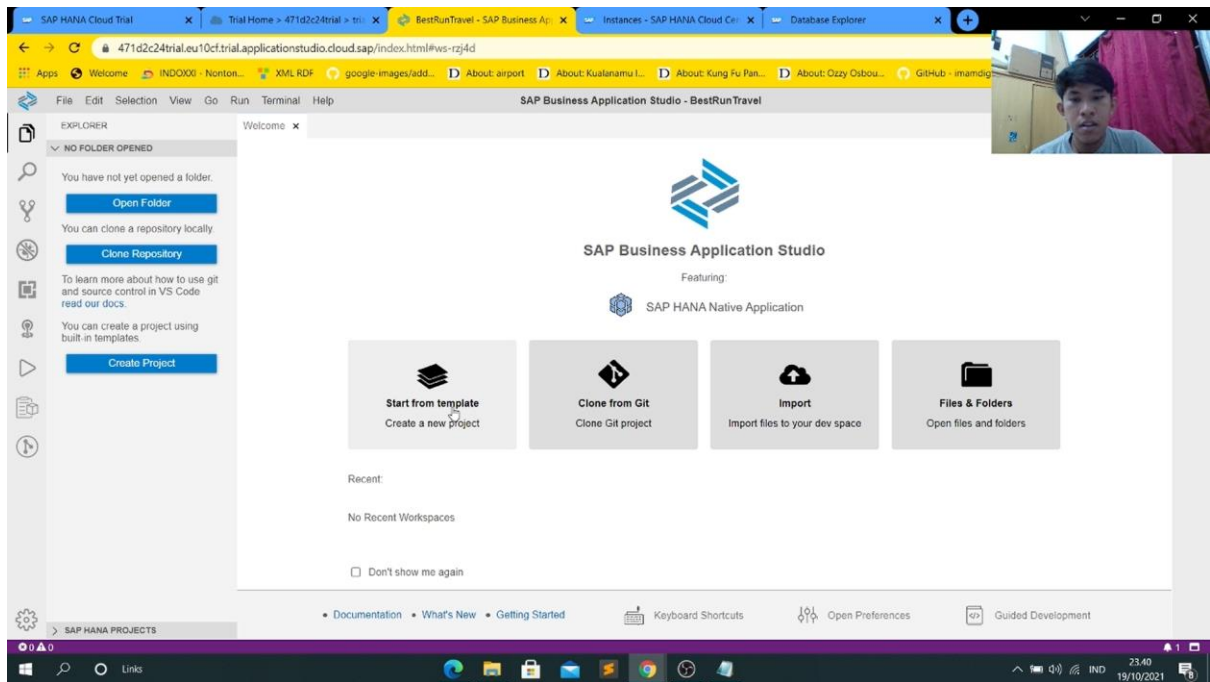
Create and manage your development environment according to the type of applications you want to develop. You can add extensions and tools to further enhance your development options.

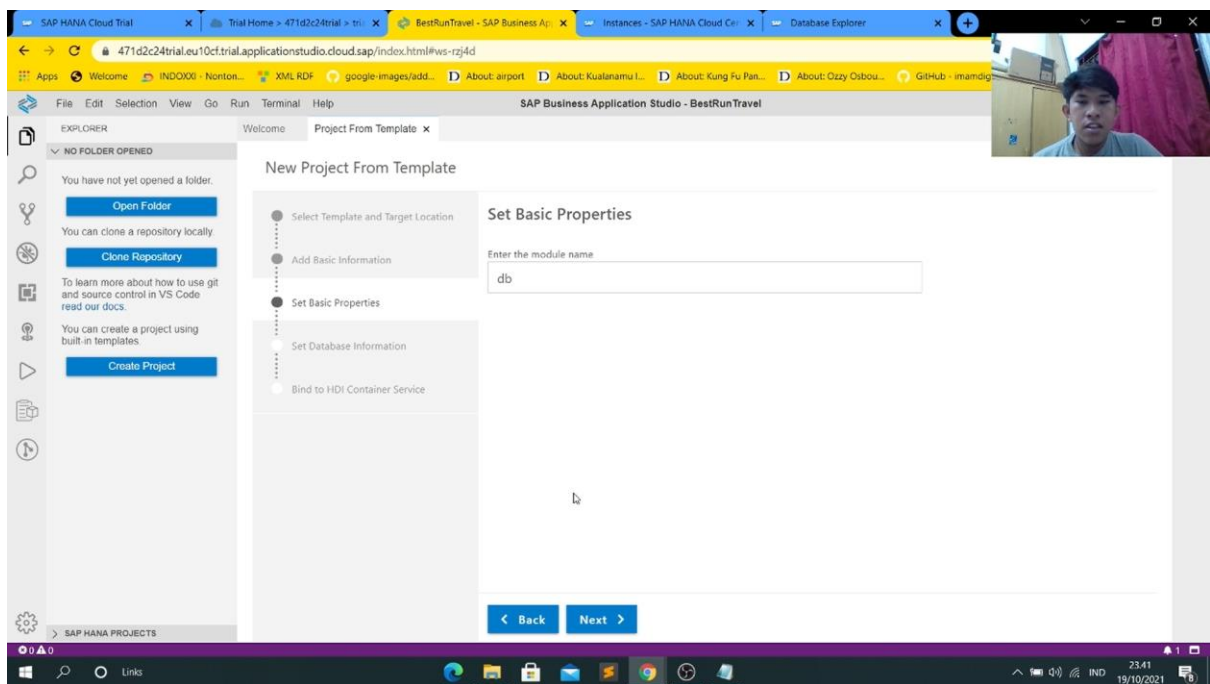
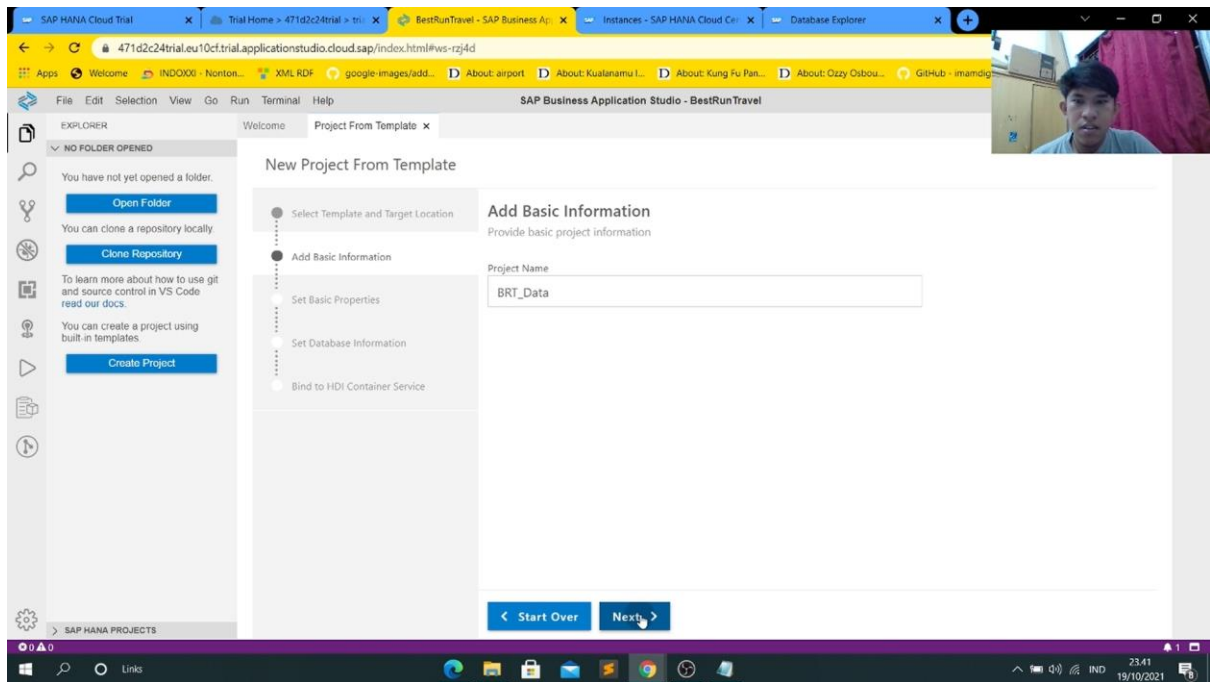
Create Dev Space

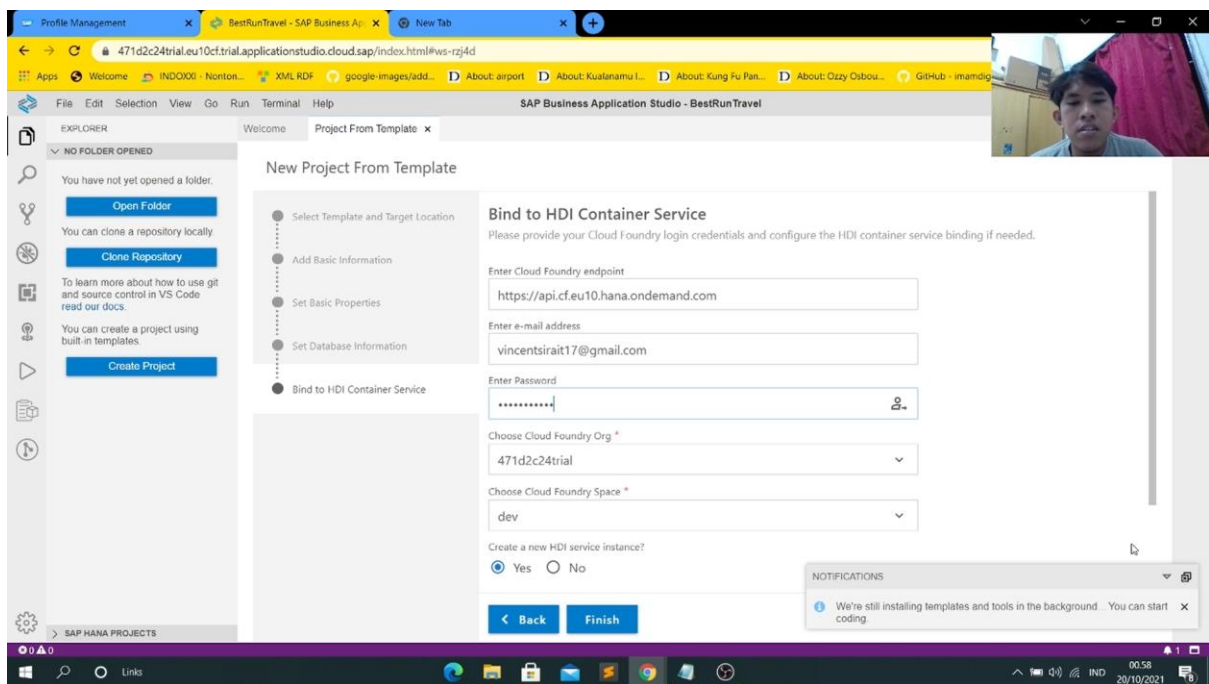
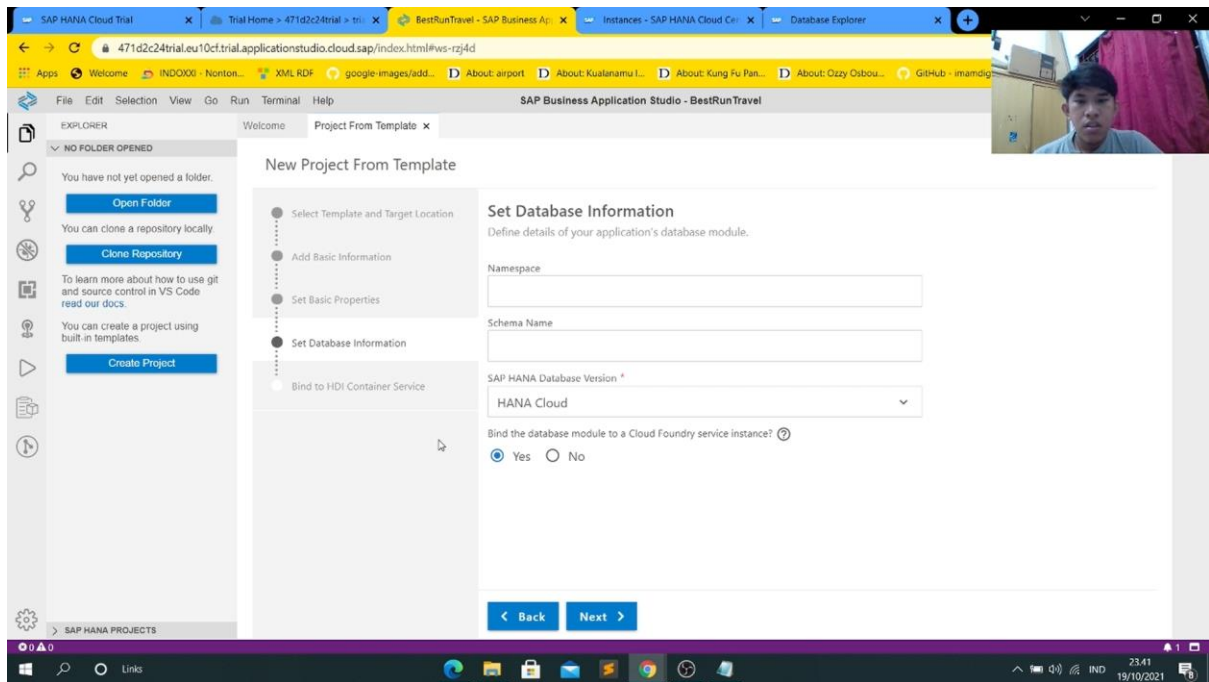
You're using a trial version. Any dev space that hasn't been running for 30 days will be deleted. See the full list of [restrictions](#).

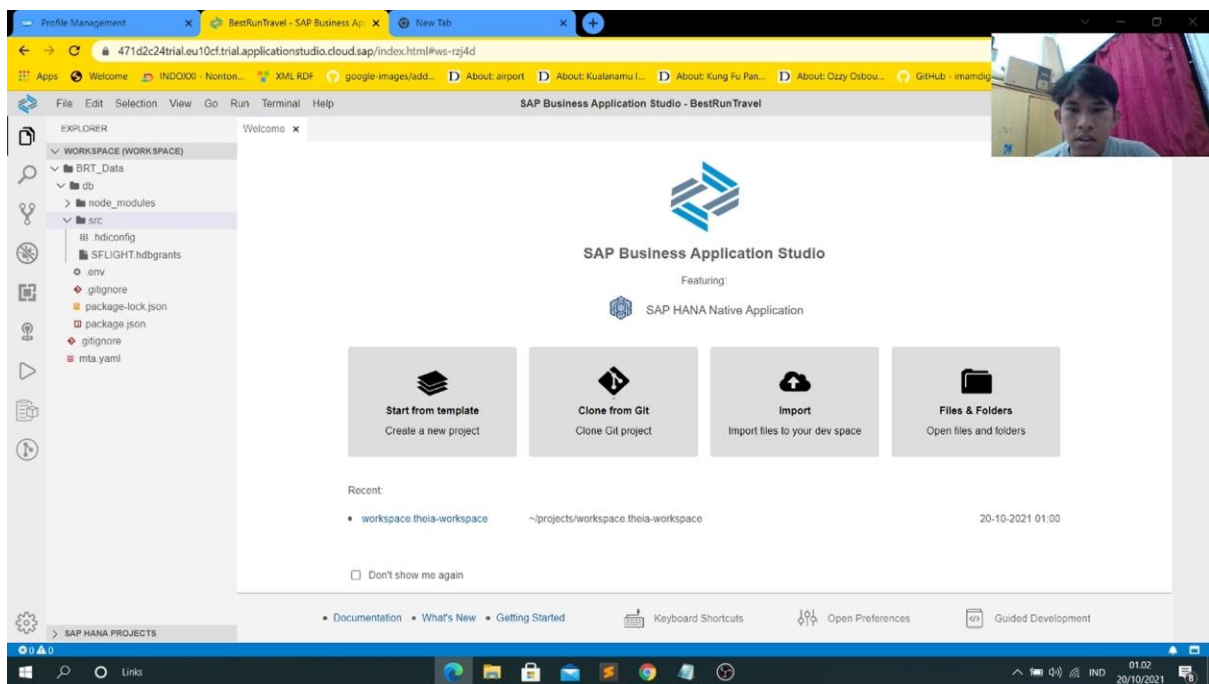
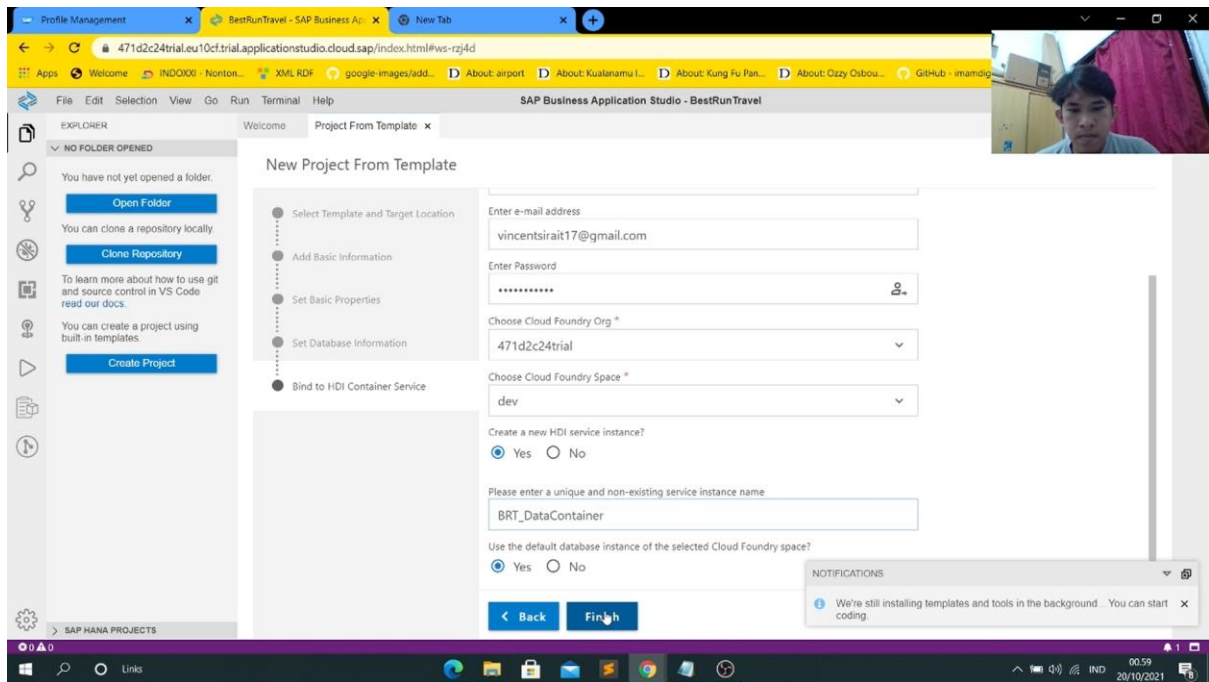
 <b>BestRunTravel</b> SAP HANA Native Application	RUNNING	Created On 10/19/2021 11:36 PM	ID ws-r7j4d	Disk Usage 16 MB / 3.9 GB	   
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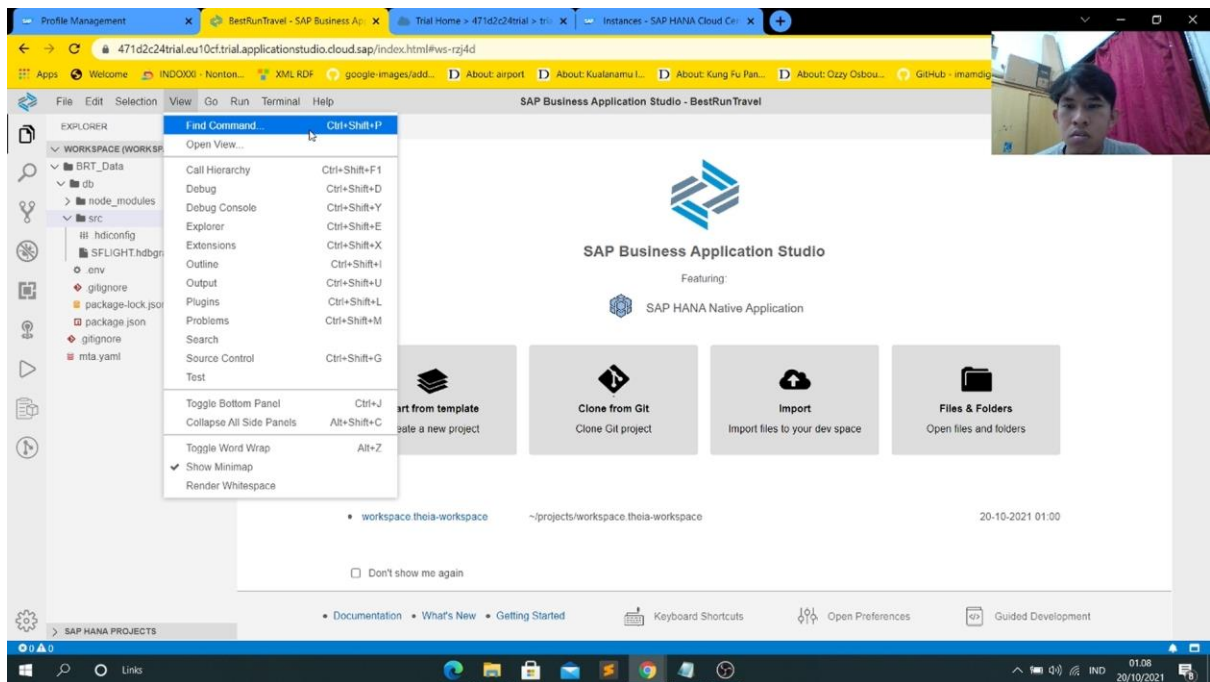
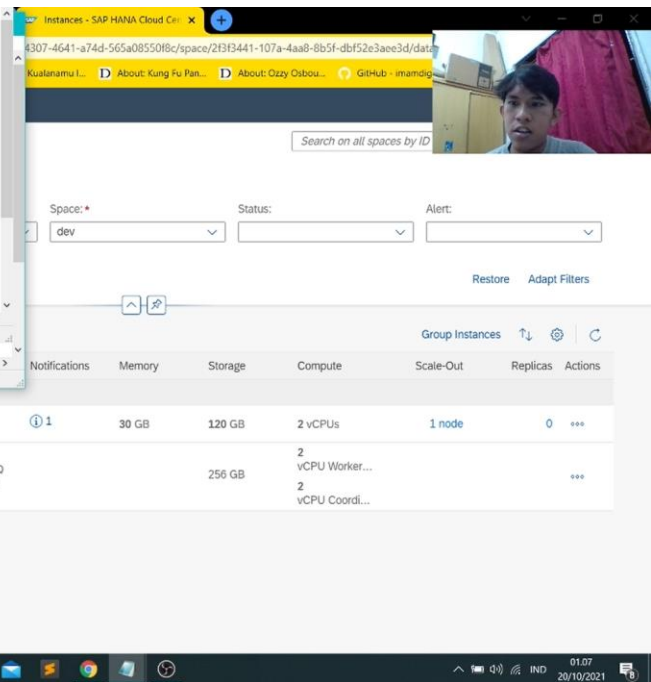
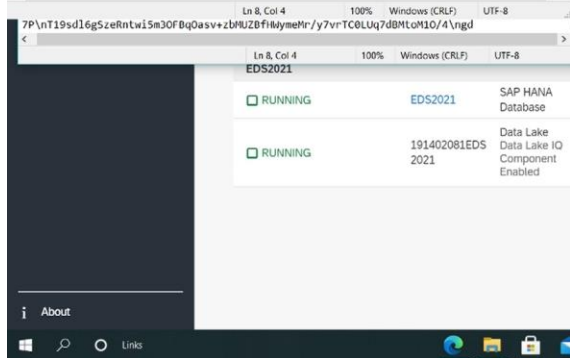
[illegible]

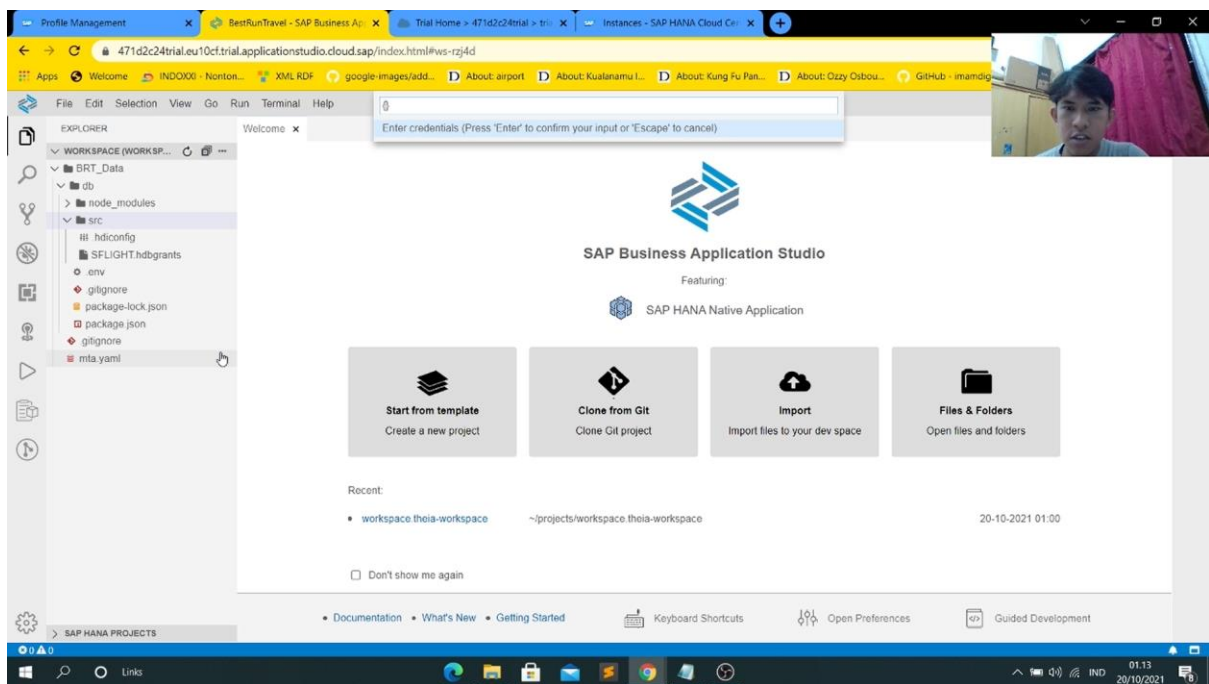
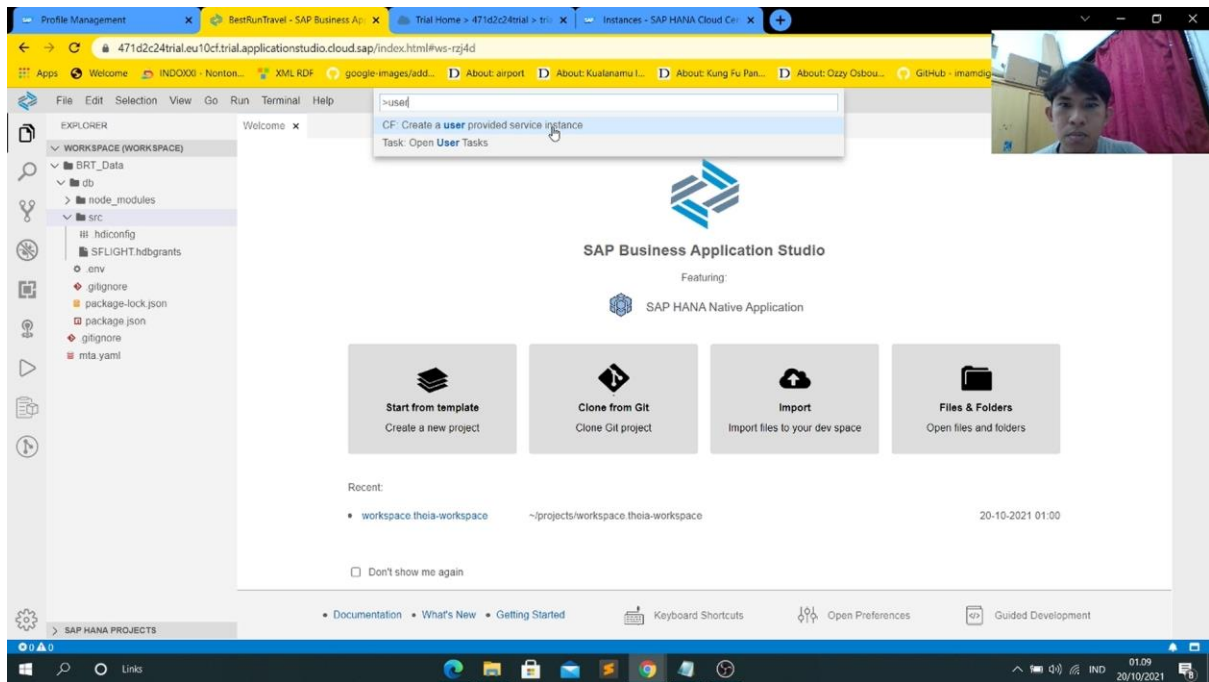
The screenshot displays the SAP HANA Cloud Central console. The left sidebar shows the navigation menu with 'SAP HANA Cloud Central', 'Instances', and 'Database Migrations'. The main area is titled 'All Instances' and includes search filters for Organization (471d2c24trial), Space (dev), Status, and Alert. Below these filters, a table lists instances:

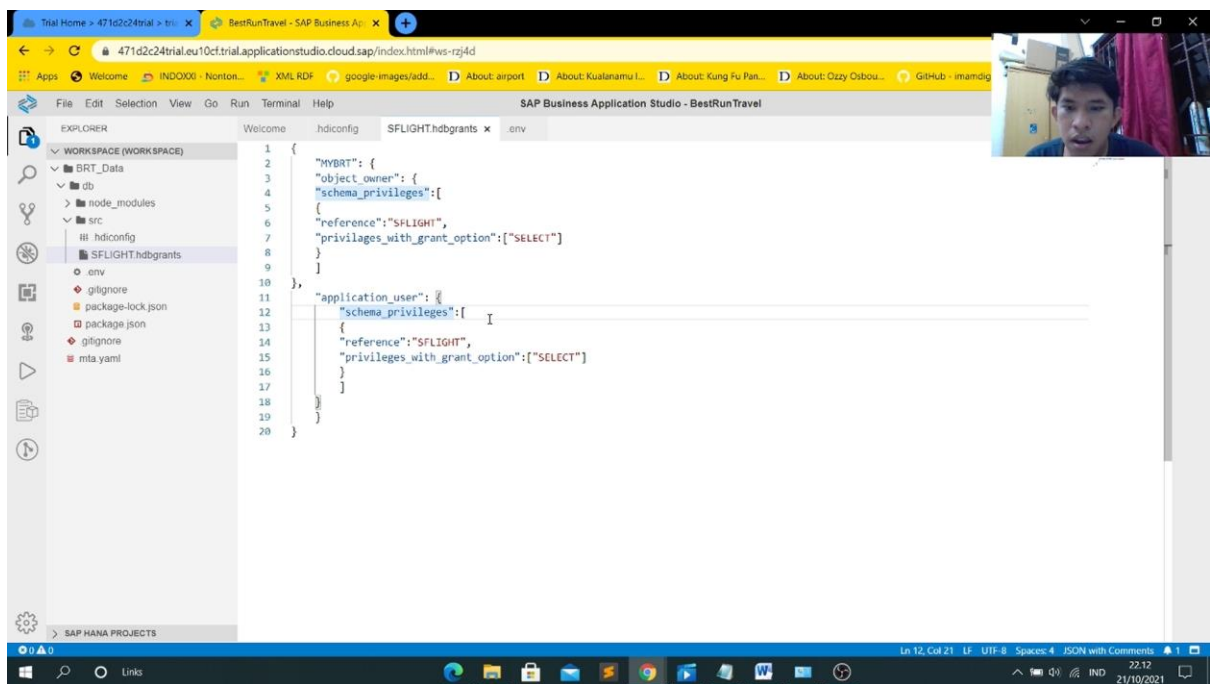
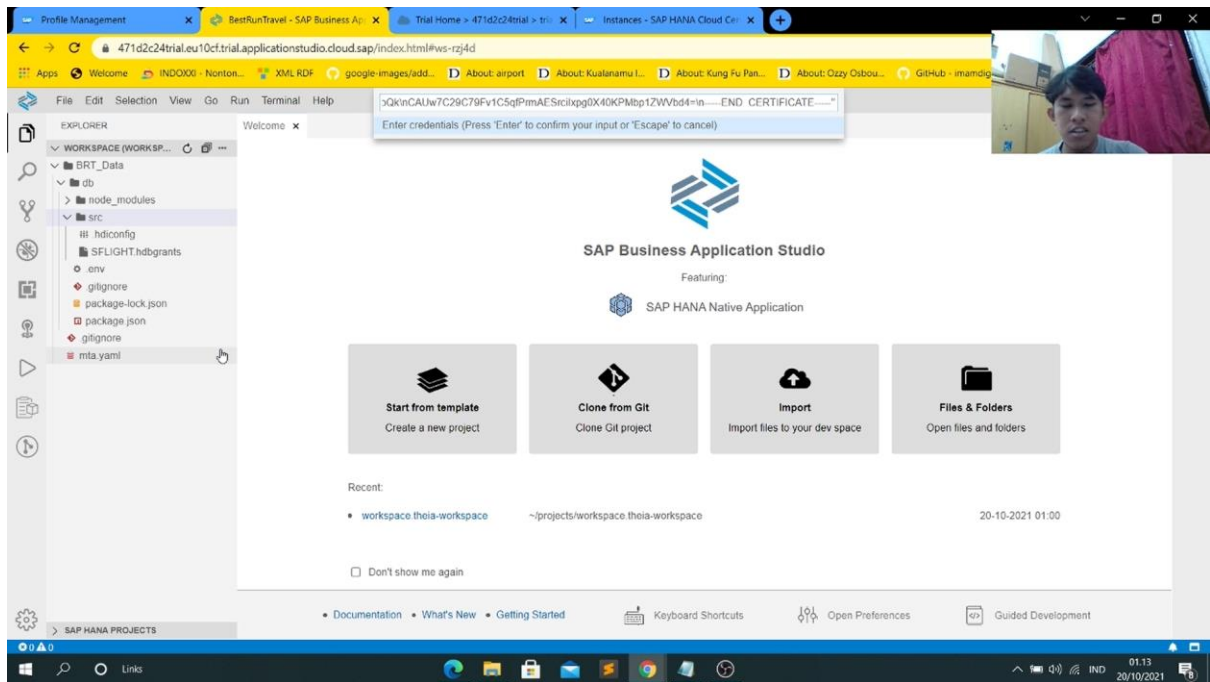
Status	Name	Type	Notifications	Memory	Storage	Compute
EDS2021						
<span>□</span> RUNNING	EDS2021	SAP HANA Database	<span>1</span>	30 GB	120 GB	2 vCPUs
<span>□</span> RUNNING	191402081EDS2021	Data Lake Data Lake IQ Component Enabled			256 GB	2 vCPU Worker... 2 vCPU Coordi...

A context menu is open over the first instance (EDS2021), showing options: Edit, Copy SQL Endpoint, Copy Instance ID (highlighted), Copy Configuration, Stop, Upgrade, Delete, Open in SAP HANA Cockpit, Open in SAP HANA Database Explorer, and Open SQL Console.

```
host": "11bfc8b-1f44-4907-ae24-7a2cd67a452.hana.trial-eu10.hanacloud.ondemand.com",
"port": "443",
"user": "00ADMIN",
"password": "14-Desember",
"driver": "com.sap.db.jdbc.driver",
"tags": [
  "hana"
],
"endpoint": "https://api.cf.sap.hana.ondemand.com",
"encrypt": true,
"validate_certificate": true,
"certificate": "-----BEGIN CERTIFICATE-----
nMTIDzCCApegAwIBAgIQCDVgPBCRgndurJmZHSjAMBgkqhkiG9w0BAQUFAADh/nMQSwC
YDVQGEwJVUZEVMHGA1UEChMWRGlnaW11cnQgSW5jMkRvFwYDVQQLZX83/nd3cuZGlnaW11
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MDBAFw0ZMTFhMTAwMDAaNGExCzA7BgNVBAYTA1VT/nRMRUwEYDVQQKFnwEaWdpQ2VydC
JbmVxIGIAx8gV8VAsIEHd3dykwdpY2VydC3j/nb28xIDAeBgNVBAMTF0RkZ212LXJ0IEdsb
3Jlc3U291IENBMTI1BjAMBgkqhkiG9w0DQgEFAAOCAGQAMHIDCgCAGAAjYHh0LXJlc3U
1eQlKPC3eQyAk17h0L1sBncSDWAZontj3U/dx6kAV53j5Ldhw7AAIE72s4hg7/fzTt
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Lv07A6Fpt/n43C/dxC//AtZhdmoR8BYHq11GIXRorSH4Idq9Joz+EkiYIVUX7Q6HL+hqkPtf
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<
7P/nT19sd16g5zeRntw15m30FBqOasv+zbMUZBfHymeMr/y7vrTC0LUq7d8MtoM10/4Vngd
<
```







SAP Business Application Studio - BestRunTravel

EXPLORER

- BRT\_DATA
  - src
    - hdiconfig
    - SFLIGHT.hdbgrants
    - env
    - gignore
    - package-lock.json
    - package.json
    - gignore
    - mta.yaml
  - SAP HANA PROJECTS
    - BRT\_Data/db (pending deployment)
    - src (pending deployment)
    - Calc\_BRT\_Partners.hdbcalc...
    - SFLIGHT.hdbgrants
    - Database Connections
      - hdi\_db (BRT\_DataContainer)
      - MYBRT (MYBRT)

mta.yaml

```
1 schema-version: "2.1"
2 ID: BRT_Data
3 version: 0.0.1
4 modules:
5   - name: db
6     type: hdb
7     path: db
8     requires:
9       - name: hdi_db
10        properties:
11          TARGET_CONTAINER: ~{hdi-container-name}
12      - name: MYBRT
13 resources:
14   - name: hdi_db
15     type: com.sap.xs.hdi-container
16     properties:
17       hdi-container-name: ${service-name}
18   - name: MYBRT
19     type: org.cloudfoundry.existing-service
20
```

Problems Task: Deploy module at /home/user/projects/BRT\_Data/db x

Terminal will be reused by tasks.

(1s 876ms)

Create SAP HANA Database Artifact snippet has been created.

SAP Business Application Studio - BestRunTravel

EXPLORER

- BRT\_DATA
  - src
    - hdiconfig
    - SFLIGHT.hdbgrants
    - env
    - gignore
    - package-lock.json
    - package.json
    - gignore
    - mta.yaml
  - SAP HANA PROJECTS
    - BRT\_Data/db (pending deployment)
    - src (pending deployment)
    - Calc\_BRT\_Partners.hdbcalc...
    - SFLIGHT.hdbgrants (pending...)
    - Database Connections
      - hdi\_db (BRT\_DataContainer)
      - MYBRT

mta.yaml

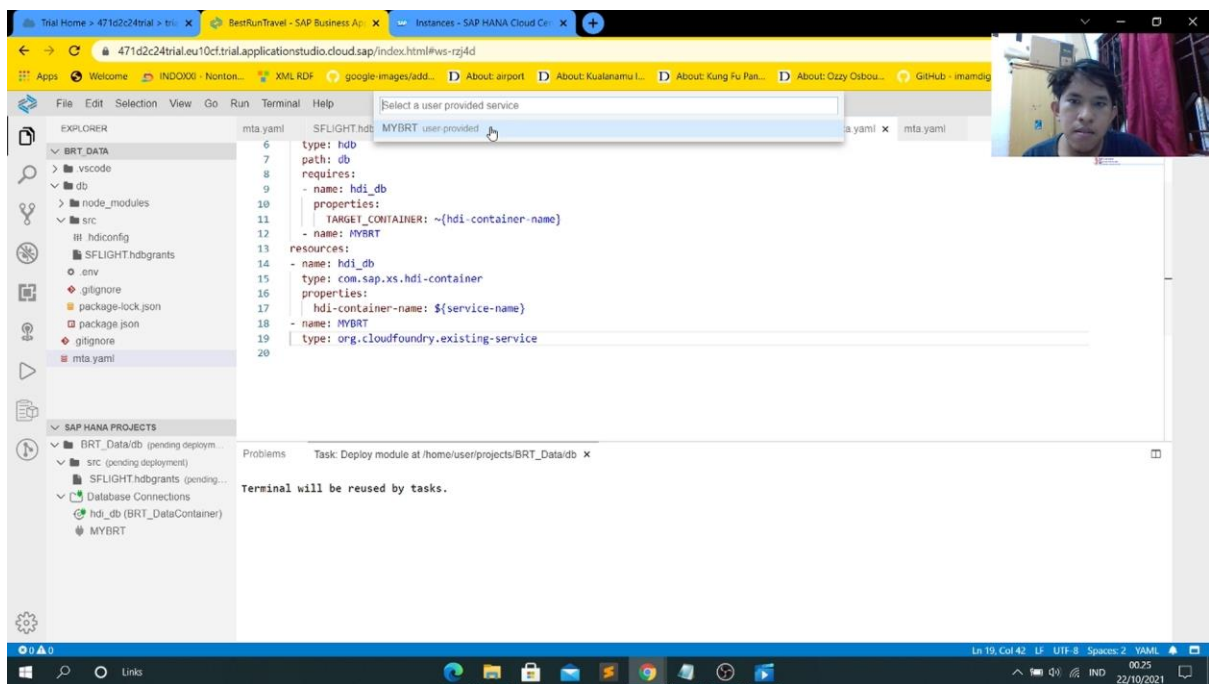
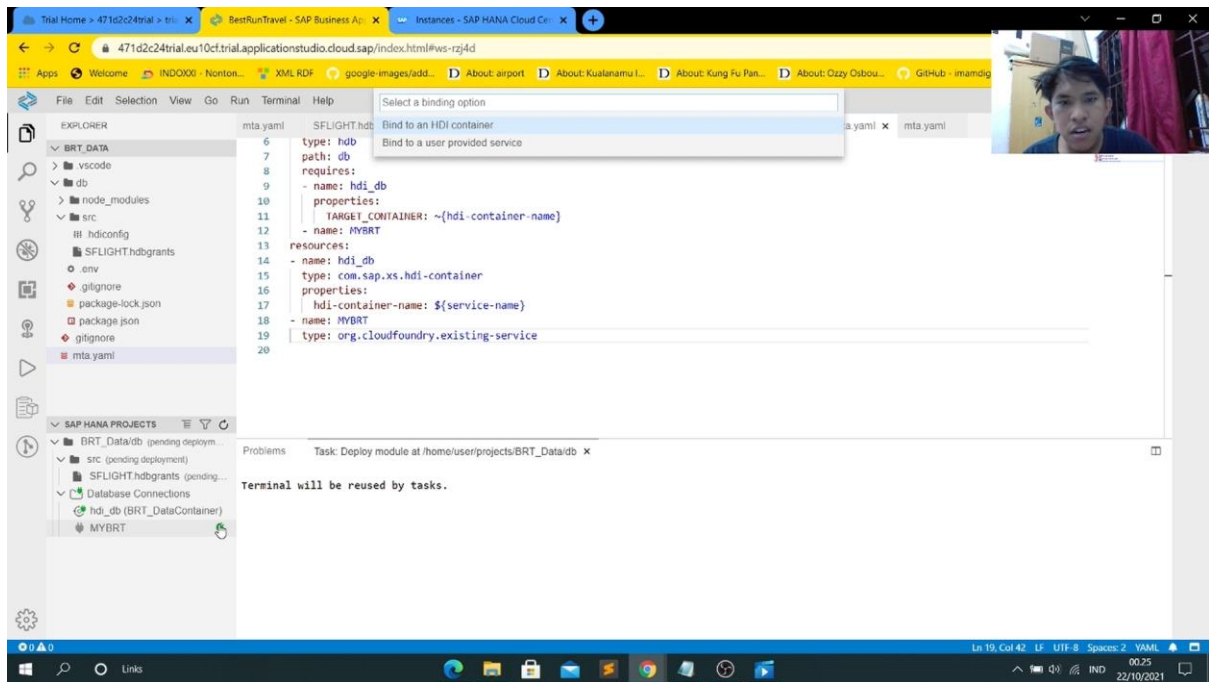
```
6 type: hdb
7 path: db
8 requires:
9   - name: hdi_db
10    properties:
11      TARGET_CONTAINER: ~{hdi-container-name}
12    - name: MYBRT
13 resources:
14   - name: hdi_db
15     type: com.sap.xs.hdi-container
16     properties:
17       hdi-container-name: ${service-name}
18   - name: MYBRT
19     type: org.cloudfoundry.existing-service
20
```

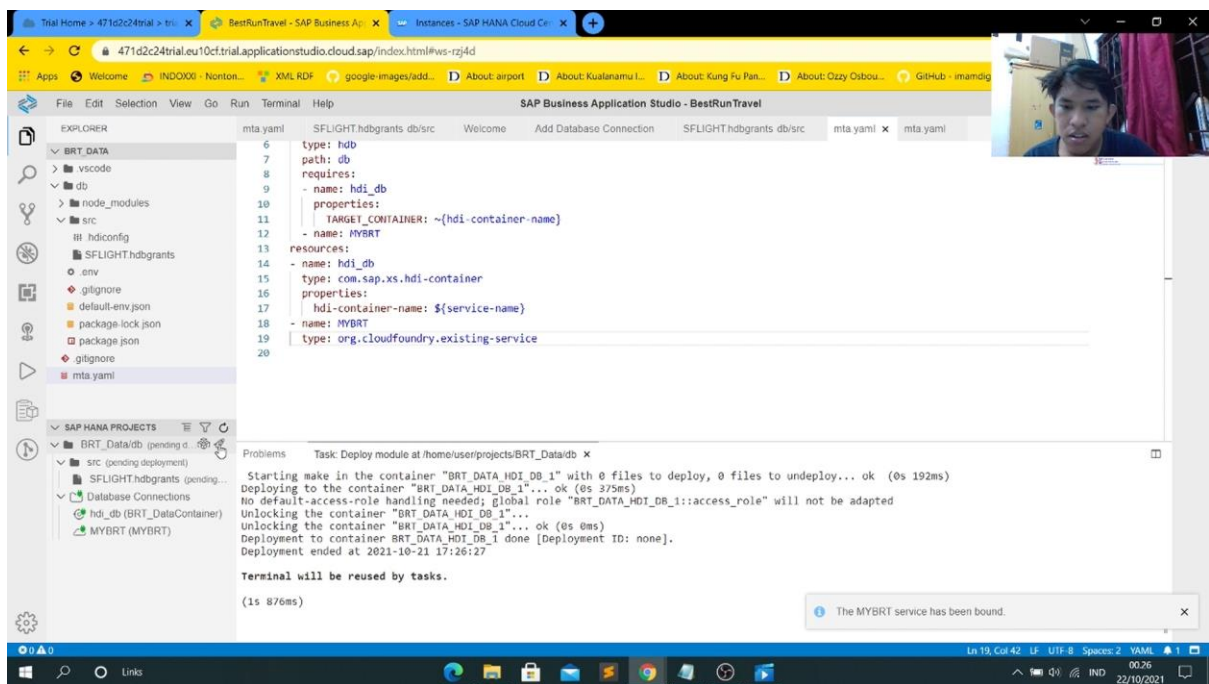
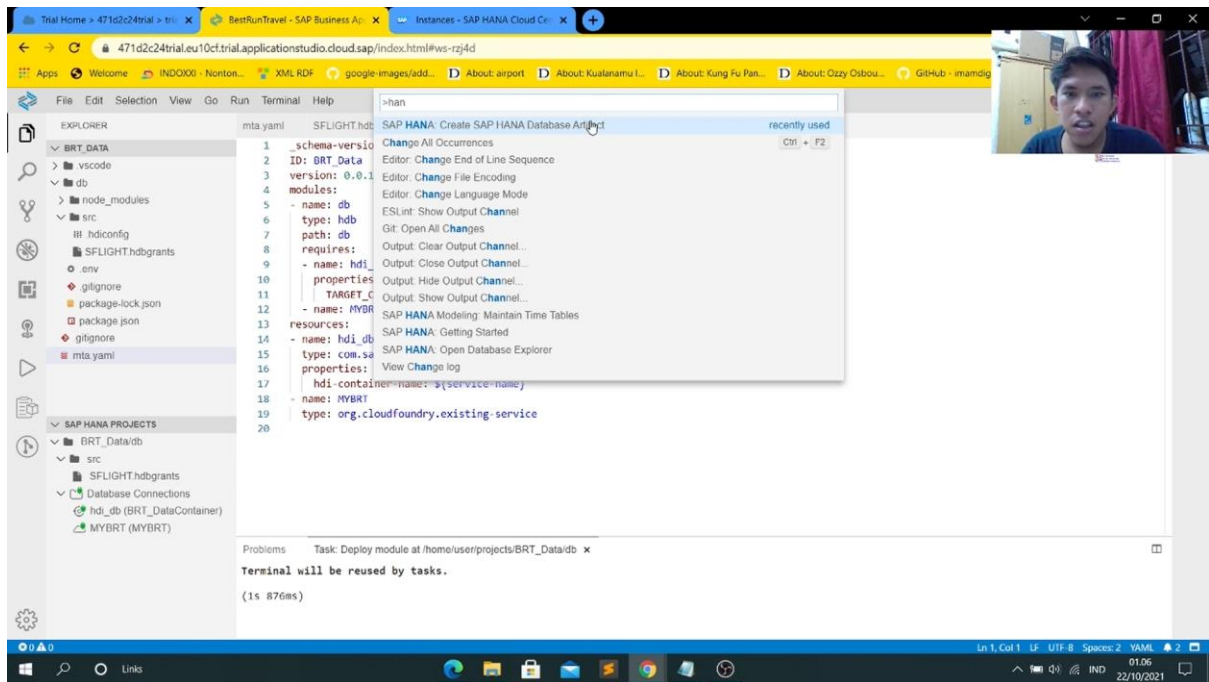
Problems Task: Deploy module at /home/user/projects/BRT\_Data/db x

Terminal will be reused by tasks.

Checking your connection to Cloud Foundry...







SAP Business Application Studio - BestRunTravel

Choose the database version. \*

HANA Cloud

Choose the artifact type. \*

Calculation View (hdbcalculationview)

Specify the artifact name. \*

Calc\_BRT\_Partners

Specify the label.

Calc\_BRT\_Partners

Choose a data category. \*

CUBE

Use a star join?

☐ Yes ☒ No

Create

Problems Task: Deploy module at /home/user/projects/BRT\_Data/db x

Terminal will be reused by tasks.

(1s 876ms)

SAP Business Application Studio - BestRunTravel

Calc\_BRT\_Partners.hdbcalculationview

Semantics

Aggregation

Problems Task: Deploy module at /home/user/projects/BRT\_Data/db x

Terminal will be reused by tasks.

(1s 876ms)

"Create SAP HANA Database Artifact" snippet has been created.

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EXPLOSER

- BRT\_DATA
  - vscode
    - db
      - node\_modules
        - src
          - hdi.config
          - Calc\_BRT\_Partners.hdbcalculationview
          - SFLIGHT.hdbgrants
            - env
            - gignore
            - package-lock.json
            - package.json
            - gignore
            - mta.yaml- SAP HANA PROJECTS
  - BRT\_Data/db (pending deployment)
  - src (pending deployment)
  - Calc\_BRT\_Partners.hdbcalculationview
  - SFLIGHT.hdbgrants
  - Database Connections
    - hdi\_db (BRT\_DataContainer)
    - MYBRT (MYBRT)

Semantics

Aggregation

Join\_1

Problems Task: Deploy module at /home/user/projects/BRT\_Data/db x

Terminal will be reused by tasks.

(1s 876ms)

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EXPLOSER

- BRT\_DATA
  - vscode
    - db
      - node\_modules
        - src
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  - BRT\_Data/db (pending deployment)
  - src (pending deployment)
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  - SFLIGHT.hdbgrants
  - Database Connections
    - hdi\_db (BRT\_DataContainer)
    - MYBRT (MYBRT)

Find Data Sources

Search for an object name

Services: All Services Selected

- ☒ Target Container Service
- ☒ MYBRT

Results (0)

Type	Name	Schema	Synonym
No Result			

Create Synonym Finish Cancel

Problems Task: Deploy module at /home/user/projects/BRT\_Data/db x

Terminal will be reused by tasks.

(1s 876ms)

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Find Data Sources

All Types Selected SAGENC

Results (1)

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

Create Synonym Finish Cancel

Problems Task: Deploy module at /home/user/projects/BRT\_Data/db x

Terminal will be reused by tasks.

(1s 876ms)

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Find Data Sources

Synonym details to automatically create synonyms:

Synonym Name	Object Name	Schema	Use Existing S...
SAGENCYDATA	SAGENCYDATA	SFLIGHT	<input type="checkbox"/>

Previous Finish Cancel

Problems Task: Deploy module at /home/user/projects/BRT\_Data/db x

/home/user/.npm/\_logs/2021-10-21T18\_12\_08\_039Z-debug.log

Terminal will be reused by tasks.