



## **SAP Data Intelligence hands-on exercises**

This document will guide you step by step on the process of connecting SAP Data Warehouse Cloud with SAP Data Intelligence Cloud

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## **DISCLAIMER**

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## **OBJECTIVE**

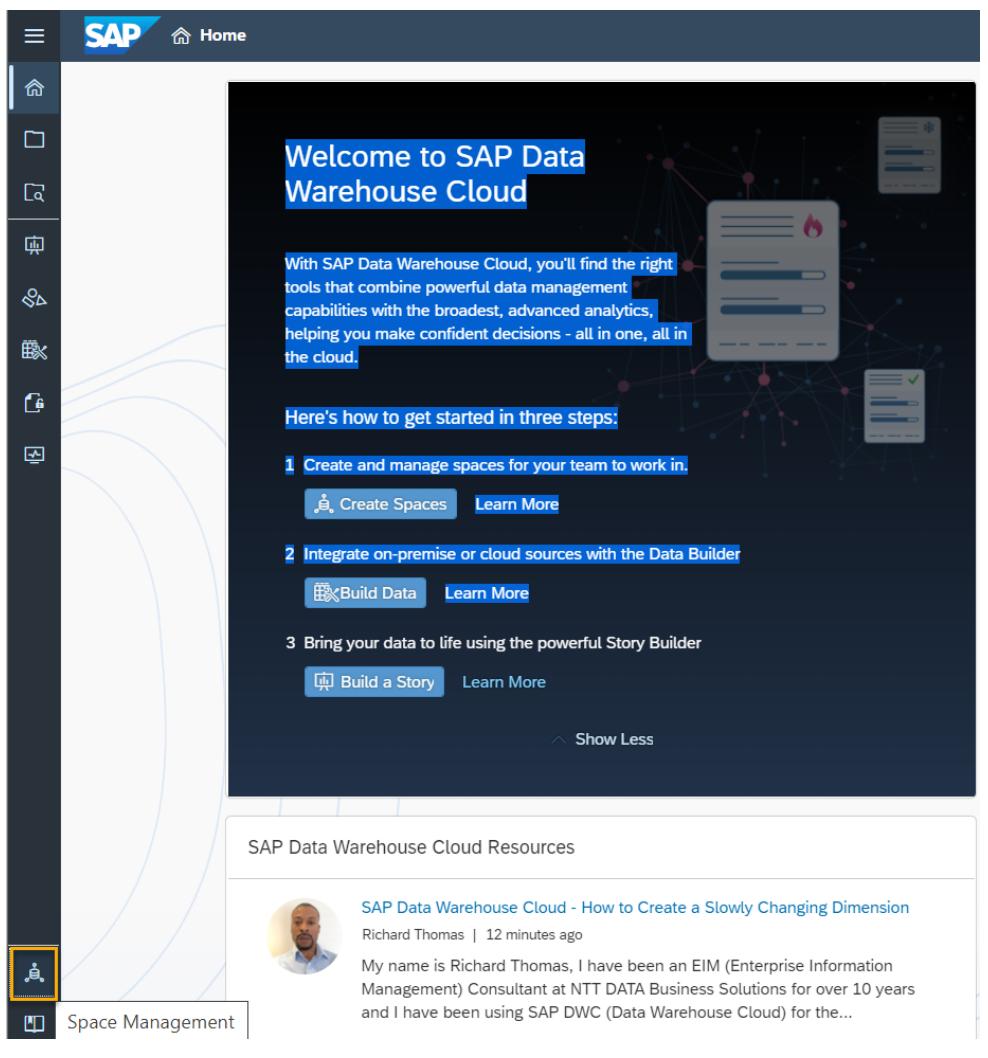
The objective of this exercise is to give you an overview of how you can connect SAP Data Warehouse Cloud to SAP Data Intelligence Cloud.

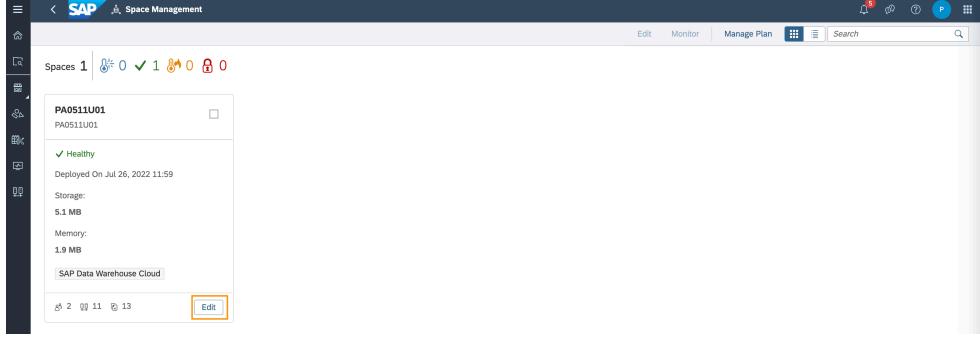
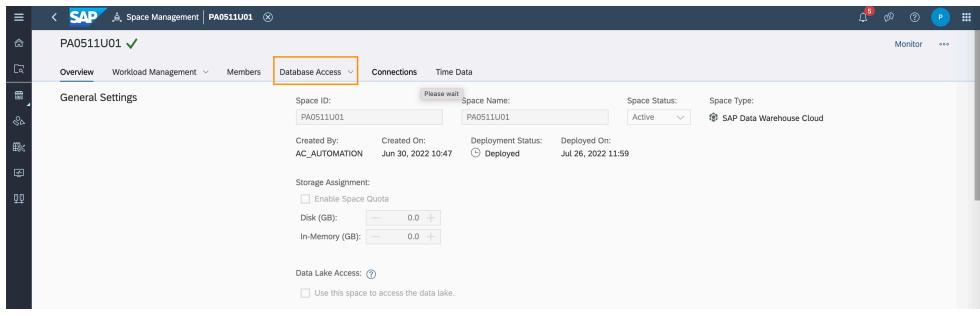
## **SCENARIO**

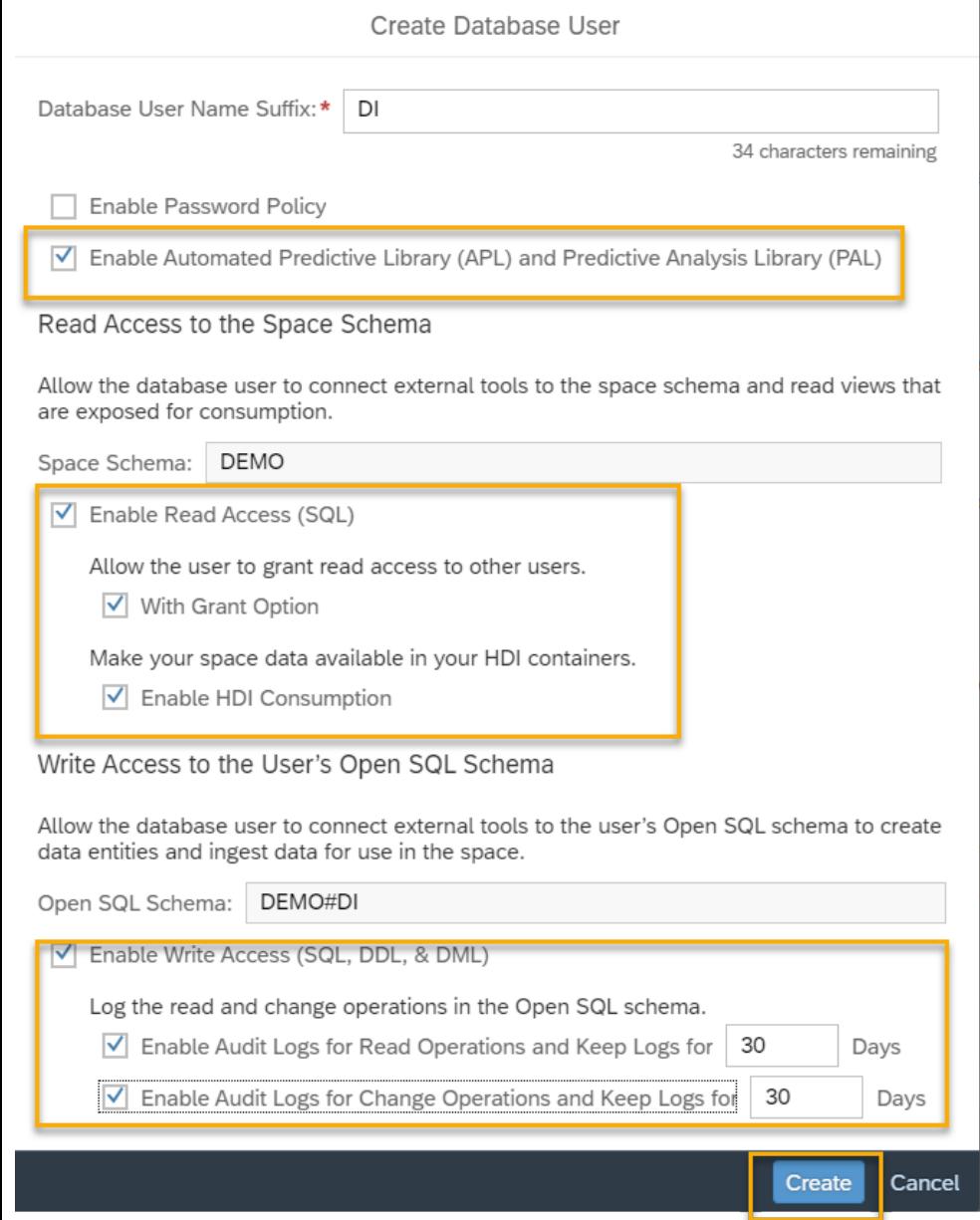
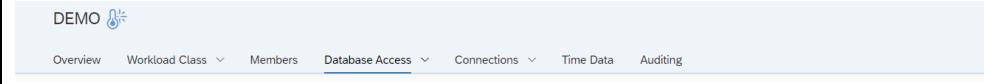
Historical book sales from the AMAZON S3 system and current book sales from S/4HANA cloud system is harmonized and stored in SAP Data Warehouse Cloud. We would like to use this dataset in SAP Data Intelligence Cloud to create a machine learning scenario. In this exercise we will cover how to connect SAP Data Warehouse Cloud system to SAP Data Intelligence Cloud.

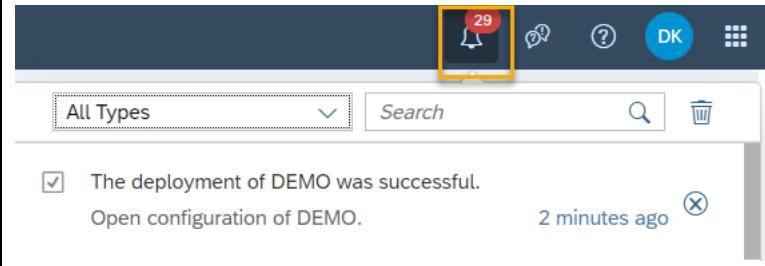
## ENVIRONMENT ACCESS – SAP DATA INTELLIGENCE CLOUD & SAP DATA WAREHOUSE CLOUD

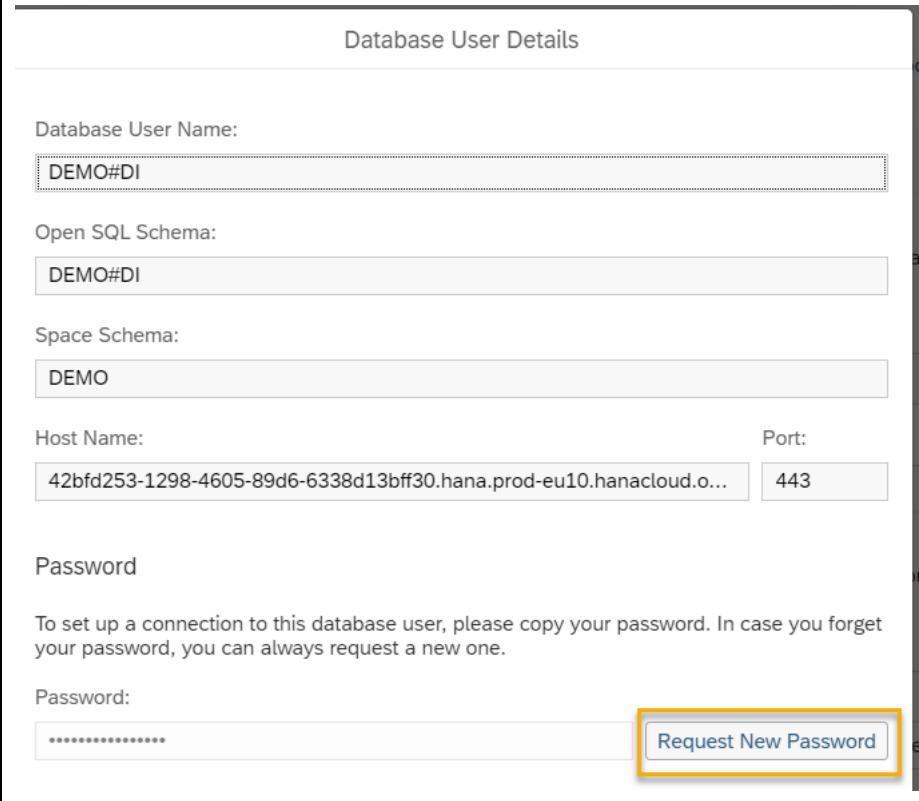
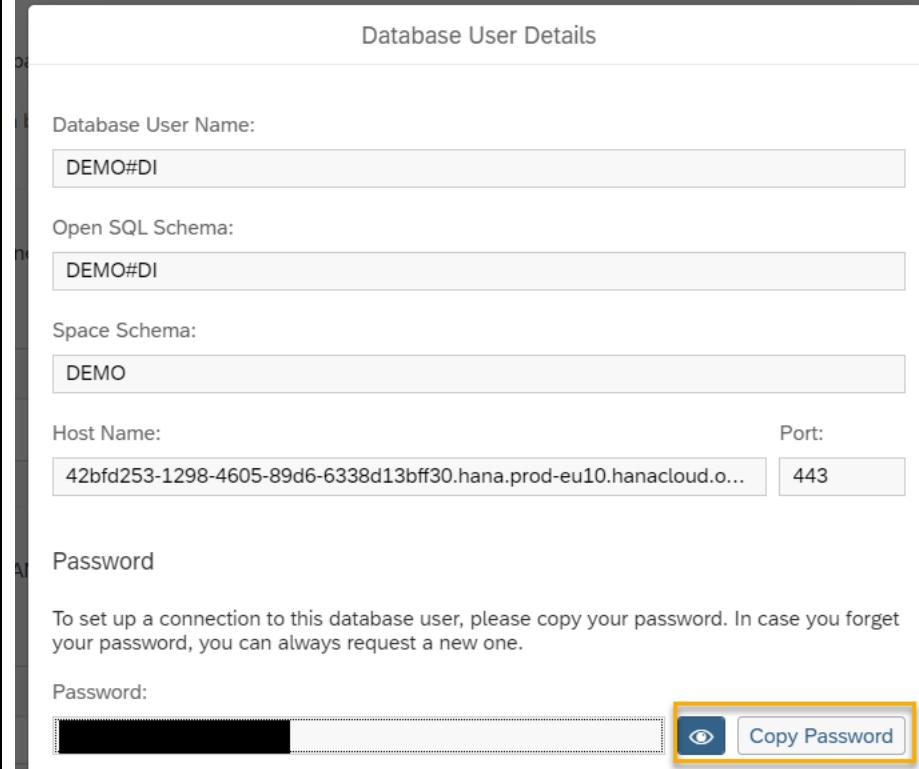
The development environment we will use for the hands-on exercises will consist of SAP Data Intelligence Cloud and SAP Data Warehouse Cloud. Use provided connection information.

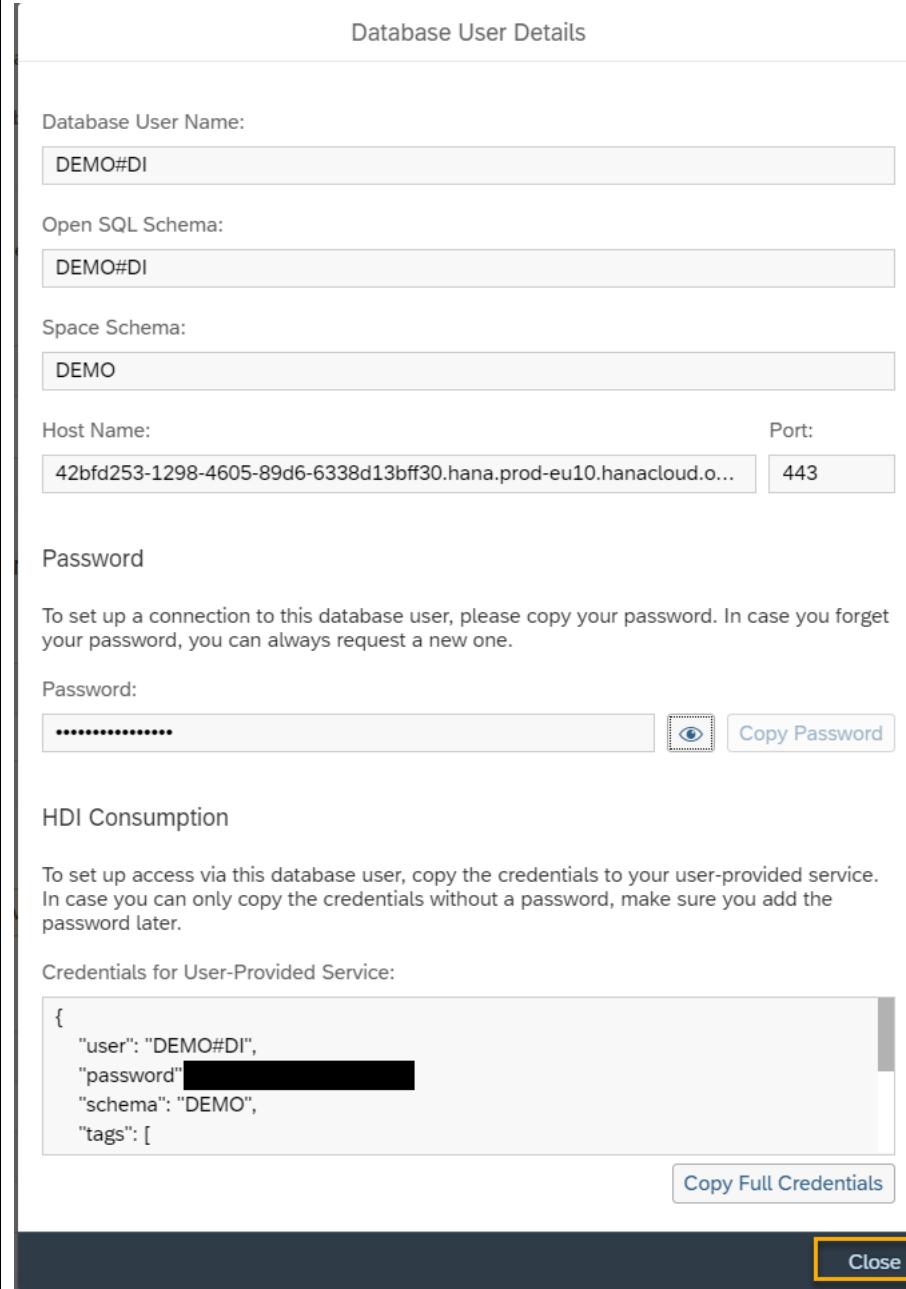
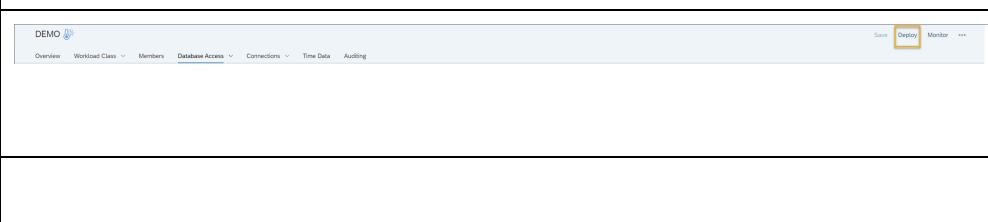
Explanation	Screenshot
Log on to SAP DATA Warehouse Cloud and Get to the Home Screen.	
Click on the Space Management icon.	

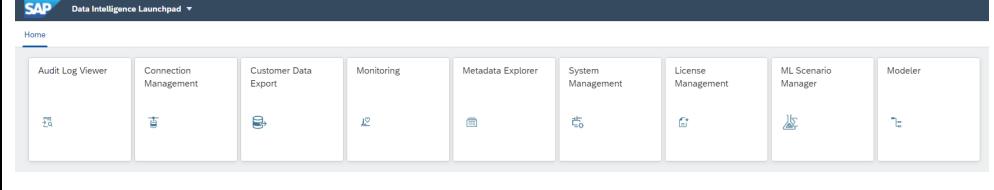
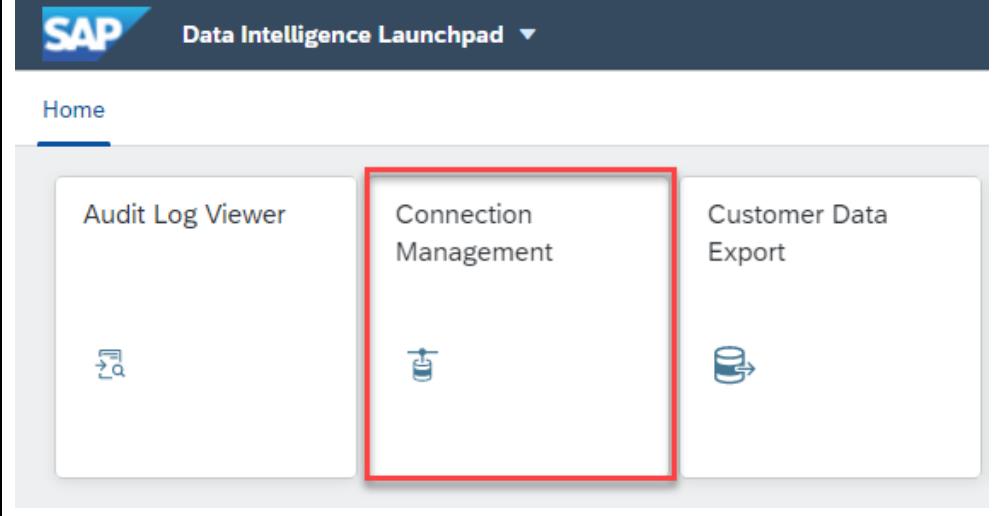
Explanation	Screenshot
<p>The Space Management Screen opens showing your allocated space. Click on EDIT.</p>	
<p>Systems opens your Space. In the space click on Database Access.</p>	
<p>In the Database Users section click on Create.</p>	

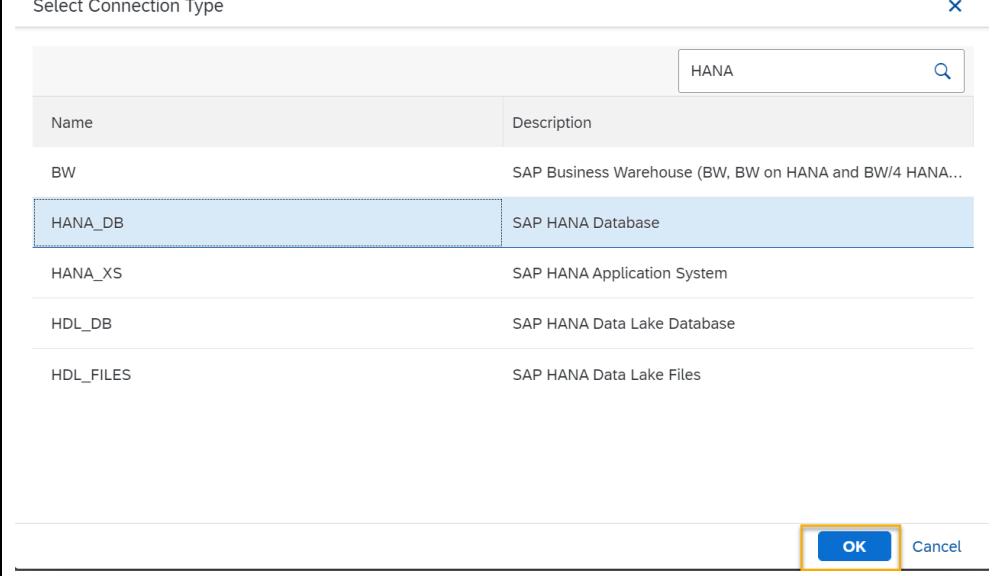
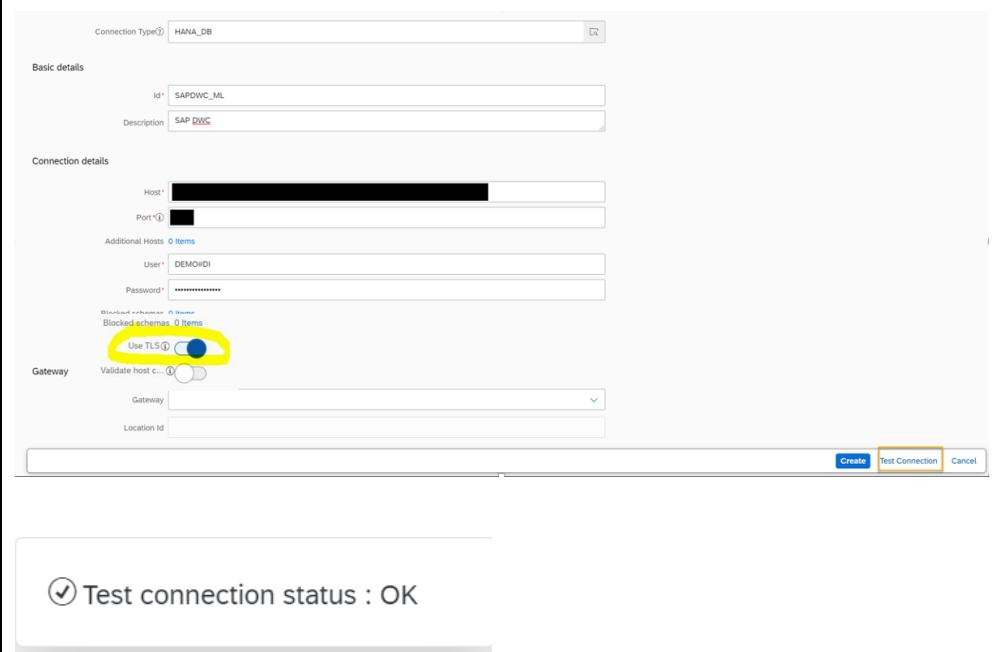
Explanation	Screenshot
<p>System navigates to Create Database User. Enter the following information and click Create:</p> <ul style="list-style-type: none"> <li>• Enter Database Use Name Suffix</li> <li>• Check the Enable APL and PAL check box</li> <li>• Check Enable Read Access SQL, With Grant Option and Enable HDI Consumption check boxes</li> <li>• Check Enable Write access and the Audit log check boxes</li> </ul> <p>Please, note that the schema where DWC will save the entities corresponds to your user ID, in this example it is DEMO.</p> <p>Please, also note that the suffix you choose when creating the DWC Database User will be added to your DWC user ID to create the schema where DI will save any new entity it will produce. In this example the user ID is DEMO and the suffix is DI, so the schema DI will use is DEMO#DI.</p>	
Deploy the Space.	

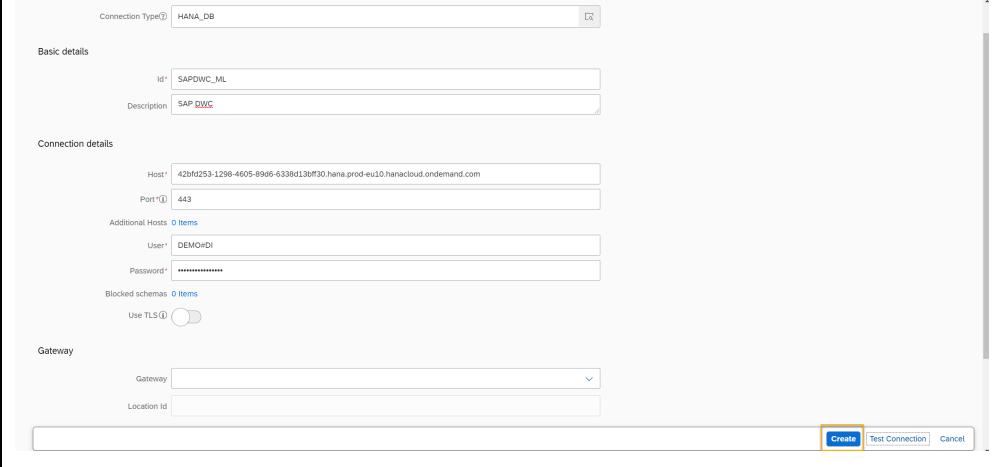
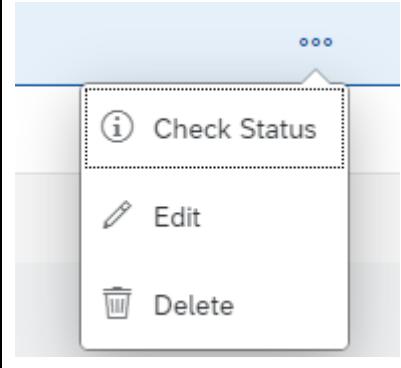
Explanation	Screenshot								
Open the Notifications to check if your space is deployed successfully.	 <p>The deployment of DEMO was successful. Open configuration of DEMO. 2 minutes ago <span style="color: red;">X</span></p>								
Click  to get the information of the newly created Database User.	 <p>Database Users</p> <table border="1"> <thead> <tr> <th>Database User Name</th> <th>Read</th> <th>Read (HDI)</th> <th>Write</th> </tr> </thead> <tbody> <tr> <td>DEMO#DI</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Database User Name	Read	Read (HDI)	Write	DEMO#DI	✓	✓	✓
Database User Name	Read	Read (HDI)	Write						
DEMO#DI	✓	✓	✓						
Note down the Host Name, Port and Database username. We will use this information while creating connection in SAP DI.	<p>Database User Details</p> <p>Database User Name: <input type="text" value="DEMO#DI"/></p> <p>Open SQL Schema: <input type="text" value="DEMO#DI"/></p> <p>Space Schema: <input type="text" value="DEMO"/></p> <p>Host Name: <input type="text" value="42bfd253-1298-4605-89d6-6338d13bff30.hana.prod-eu10.hanacloud.o..."/> Port: <input type="text" value="443"/></p>								

Explanation	Screenshot
<p>Click on Request New password and note down the password provided. We will use this password while creating the connection in SAP DI.</p>	 <p>Database User Details</p> <p>Database User Name: DEMO#DI</p> <p>Open SQL Schema: DEMO#DI</p> <p>Space Schema: DEMO</p> <p>Host Name: 42bfd253-1298-4605-89d6-6338d13bff30.hana.prod-eu10.hanacloud.o... Port: 443</p> <p>Password</p> <p>To set up a connection to this database user, please copy your password. In case you forget your password, you can always request a new one.</p> <p>Password: [REDACTED] <b>Request New Password</b></p>
<p>Click on  and Copy Password to copy the password.</p>	 <p>Database User Details</p> <p>Database User Name: DEMO#DI</p> <p>Open SQL Schema: DEMO#DI</p> <p>Space Schema: DEMO</p> <p>Host Name: 42bfd253-1298-4605-89d6-6338d13bff30.hana.prod-eu10.hanacloud.o... Port: 443</p> <p>Password</p> <p>To set up a connection to this database user, please copy your password. In case you forget your password, you can always request a new one.</p> <p>Password: [REDACTED]  <b>Copy Password</b></p>

Explanation	Screenshot
<p>Click Close.</p>	 <p>Database User Details</p> <p>Database User Name: DEMO#DI</p> <p>Open SQL Schema: DEMO#DI</p> <p>Space Schema: DEMO</p> <p>Host Name: 42bfd253-1298-4605-89d6-6338d13bff30.hana.prod-eu10.hanacloud.o... Port: 443</p> <p>Password</p> <p>To set up a connection to this database user, please copy your password. In case you forget your password, you can always request a new one.</p> <p>Password: [REDACTED] <input type="button" value="Copy Password"/></p> <p>HDI Consumption</p> <p>To set up access via this database user, copy the credentials to your user-provided service. In case you can only copy the credentials without a password, make sure you add the password later.</p> <p>Credentials for User-Provided Service:</p> <pre>{   "user": "DEMO#DI",   "password": "[REDACTED]",   "schema": "DEMO",   "tags": [     ...   ] }</pre> <p><input type="button" value="Copy Full Credentials"/></p> <p><input type="button" value="Close"/></p>
<p>Deploy the Space and check the notification of successful deployment.</p>	 <p>Space Overview</p> <ul style="list-style-type: none"> <li>Overview</li> <li>Workload Class</li> <li>Members</li> <li>Database Access</li> <li>Connections</li> <li>Time Data</li> <li>Auditing</li> </ul> <p>Space Deploy Monitor ...</p>

Explanation	Screenshot
<p>On SAP Data Intelligence Cloud, log on and get to the Home screen.</p>	
<p>Click on the Connection Management tile.</p>	
<p>In the next screen on the connection tab click + to add a connection.</p>	
<p>The Create Connection screen opens. Click on the Connection Type. Select connection type and a new screen opens. In the search type HANA, select HANA_DB and click OK.</p>	

Explanation	Screenshot
	
<p>Provide the details as described below:</p> <p><b>ID:</b> use the following format <b>DWC_&lt;USER_ID&gt;</b></p> <p><b>Description:</b> add a description</p> <p><b>Host Name:</b> use the Host Name copied from the created DWC database user</p> <p><b>Port:</b> use the Port number copied from the created DWC database user</p> <p><b>User:</b> use the Database username copied from the created DWC database user</p> <p><b>Password:</b> use the password generated for the DWC database user</p> <p>Switch on Use "TLS".</p> <p>Click Test Connection.</p>	 <p>(?) Test connection status : OK</p>

Explanation	Screenshot
Click Create.	
On the main page you see the connection just created, select it and click <b>...</b>	
Check the Status is OK.	