IDUG

IDUG

2024 NA Db2 Tech Conference

Console for every form factor of Db2

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IBM

Session Code: LUWOPS1 | Platform: LUW

Db2
Database

Deploy, develop and run mission critical workloads on the cloud-native database accessible to everyone, everywhere

Benefits

- **Control your database costs** with all-inclusive pricing and a cloud-native infrastructure built on separate storage and compute
- **Improve energy efficiency** with advanced storage compression and intelligent resource utilization for sustainable IT operations
- **Achieve business continuity** and avoid data-related outages with continuous data availability
- **Automatically secure data with built-in encryption for data in motion and at rest**
- **Simplify database administration** and maintenance with containerized engine
- **Seamlessly run analytics** on Db2 Warehouse from transactional data in Db2

Use Cases

- **Modernize mission critical apps** with Db2's high performance, continuous availability, and data-driven security, built on decades of innovation
- **Build cloud native apps** powered by high concurrency, flexible scaling, and low latency transactions available across any cloud
- **Deliver innovative customer experiences** supported by cross-region disaster recovery, built-in data governance, and extreme resiliency
- **Secure and govern your data** with Db2's built in encryption, access controls, data masking and more

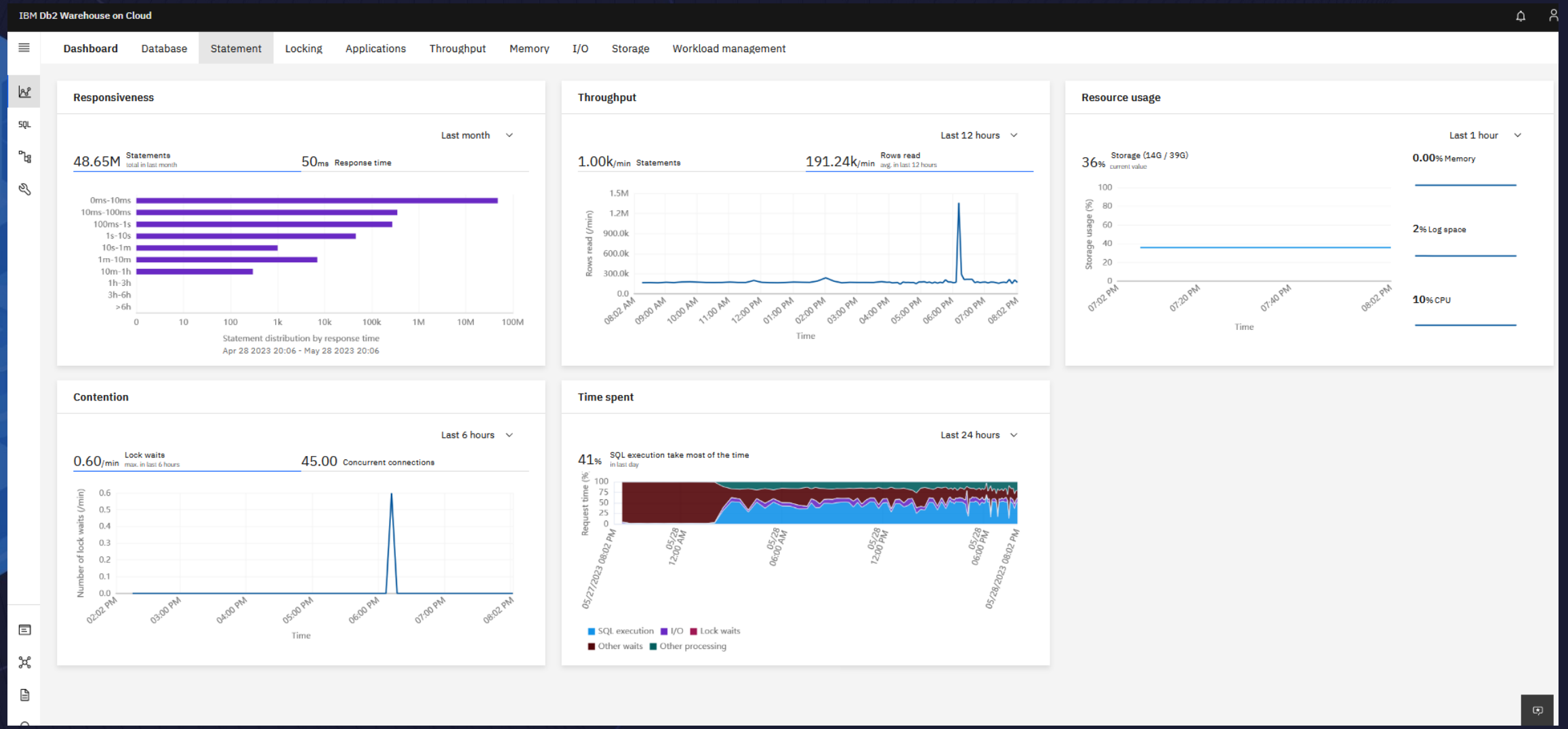
Db2 Platforms and DMC Consoles

Db2 / DMC	On Prem		IBM Cloud		Cloud Pak for Data				Red Hat OpenShift		AWS
Standalone	Db2	IIAS	Db2	Db2 Warehouse	Db2	Db2 Warehouse	Data Virtualization	Db2 Big SQL	Db2	Db2 Warehouse	Db2 RDS
Console											

Manage Db2

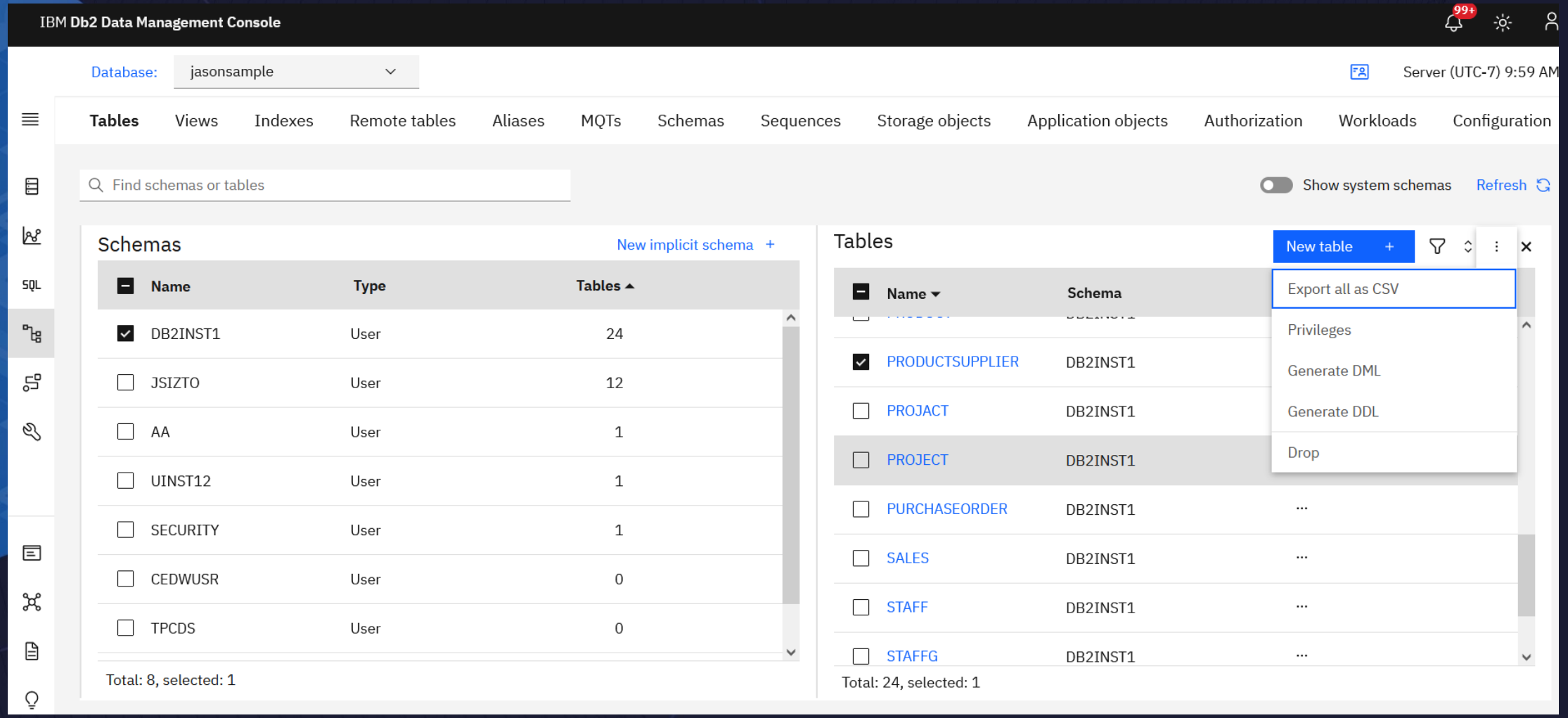
- Monitor Databases
- SQL editor/builder
- Run SQL
- Scale Compute and Storage
- Manage roles and authorizations
- Explore Objects
- Load/Import/Export/Import/Move/Copy Data
- User Management

Monitoring Dashboard



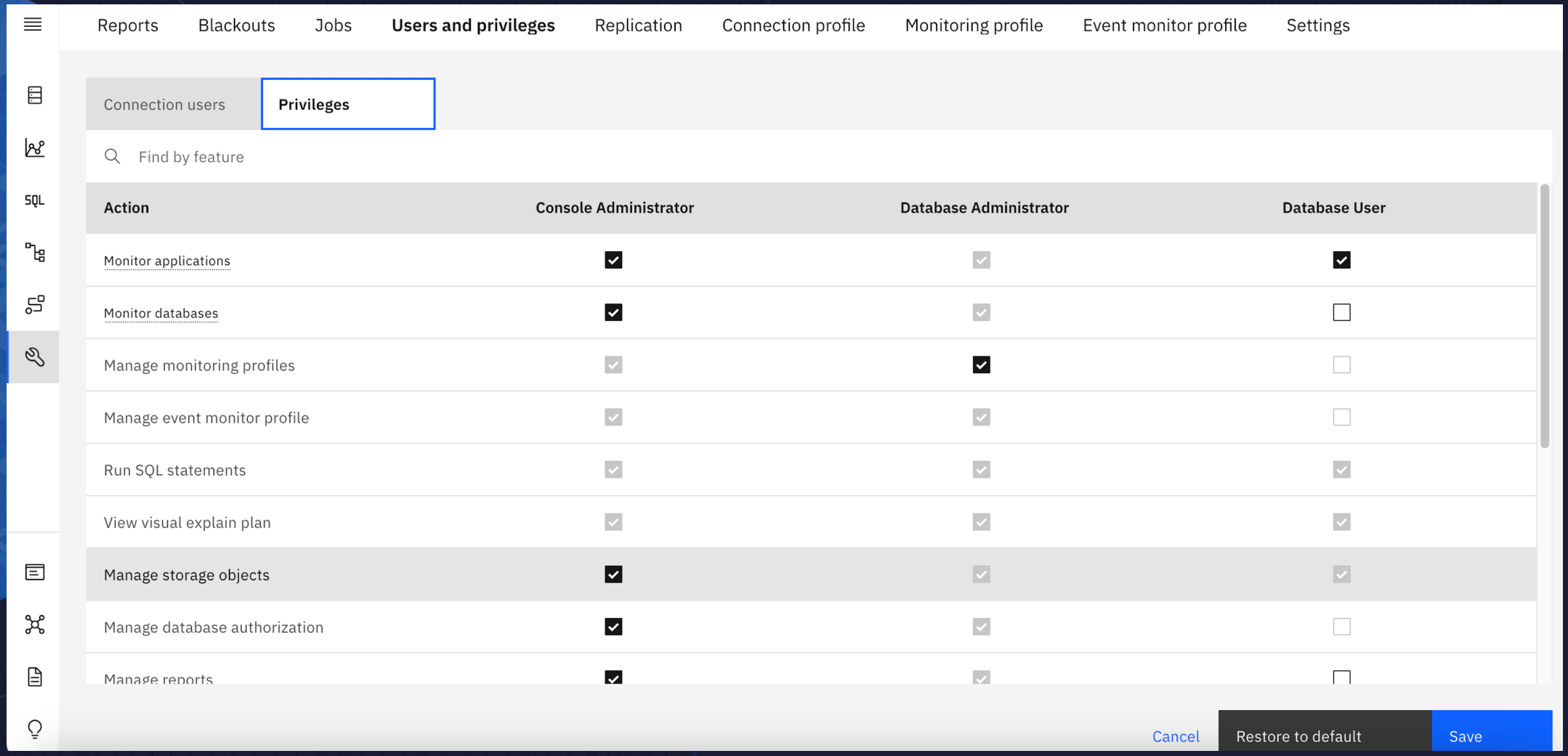
Explore Objects

Manipulate objects and explore relationships, generate DDL/DML based on the table definition



Manage privileges

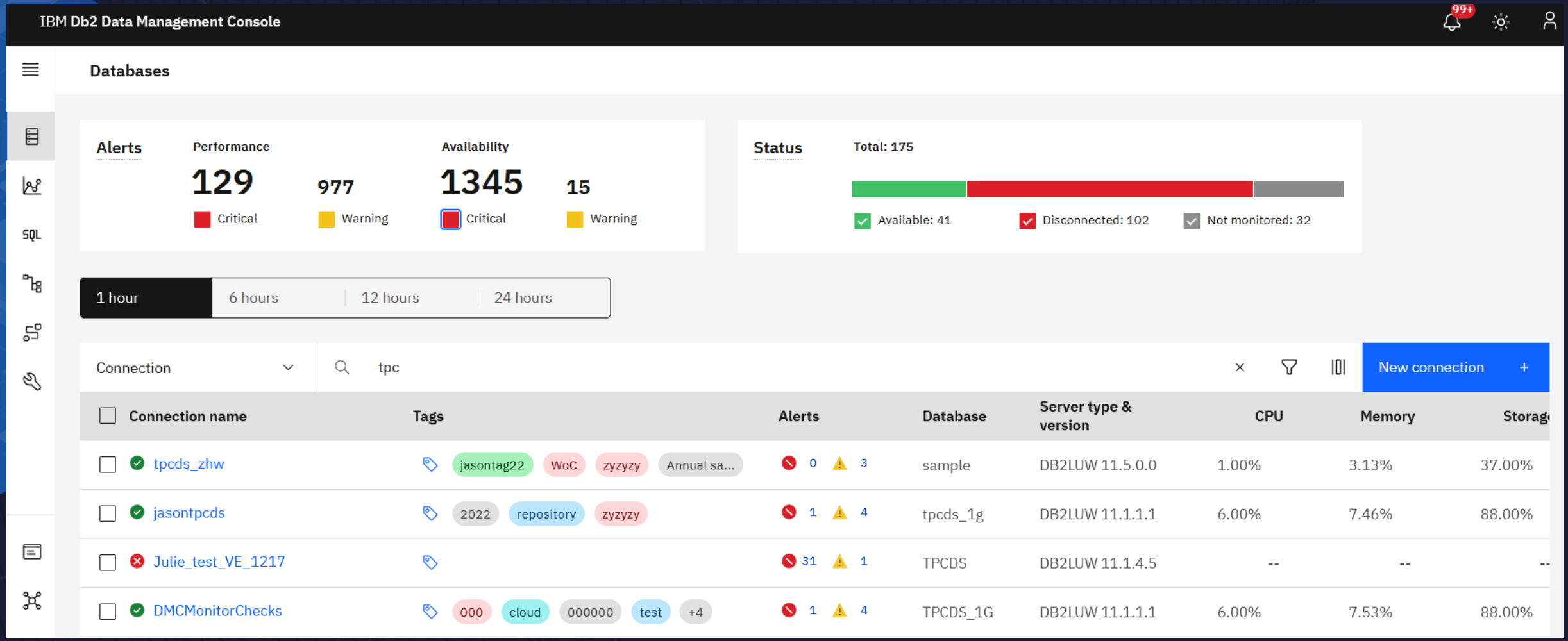
Set and manage object privileges (by user, group, role)



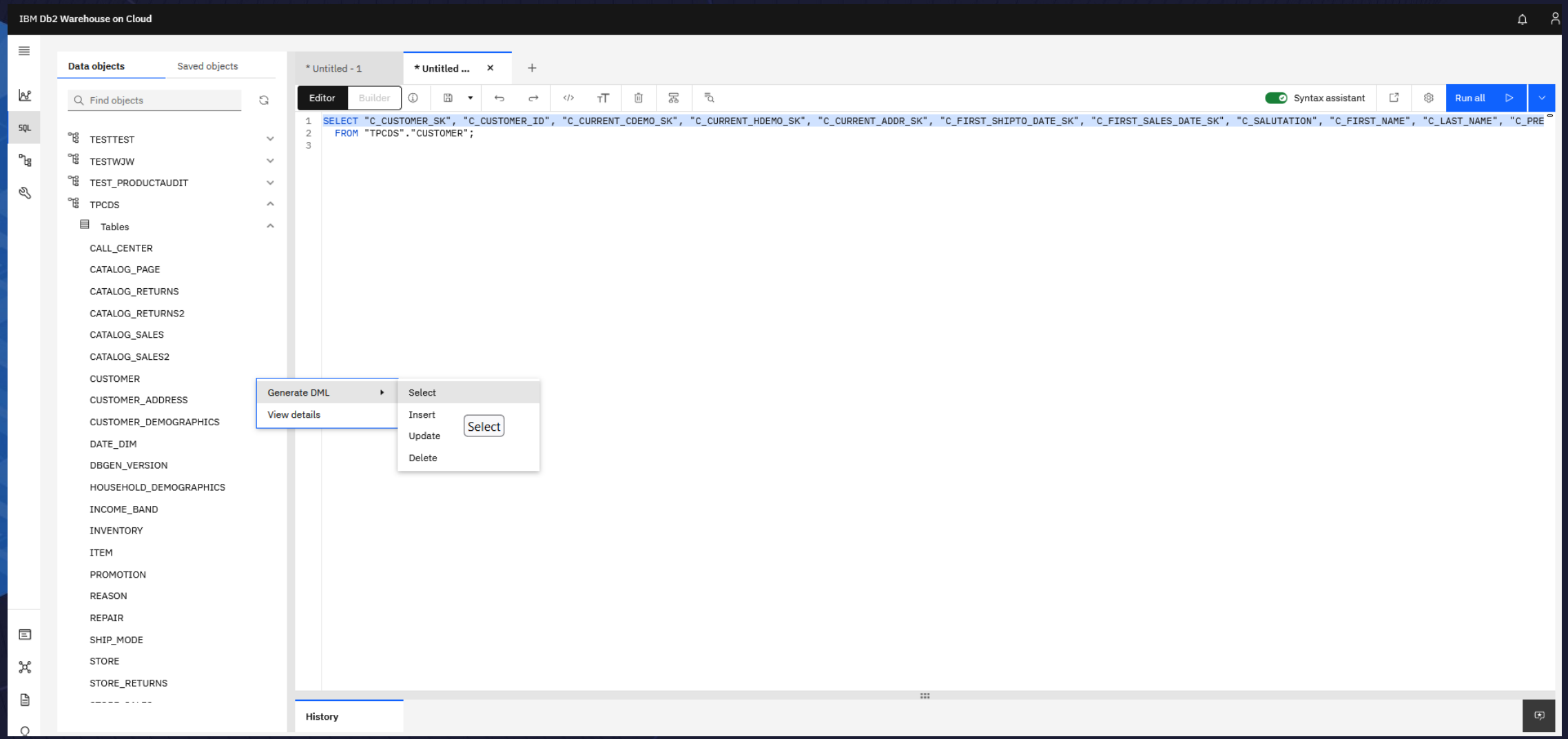
Databases Dashboard

Monitor hundreds of databases from a single pane of glass!

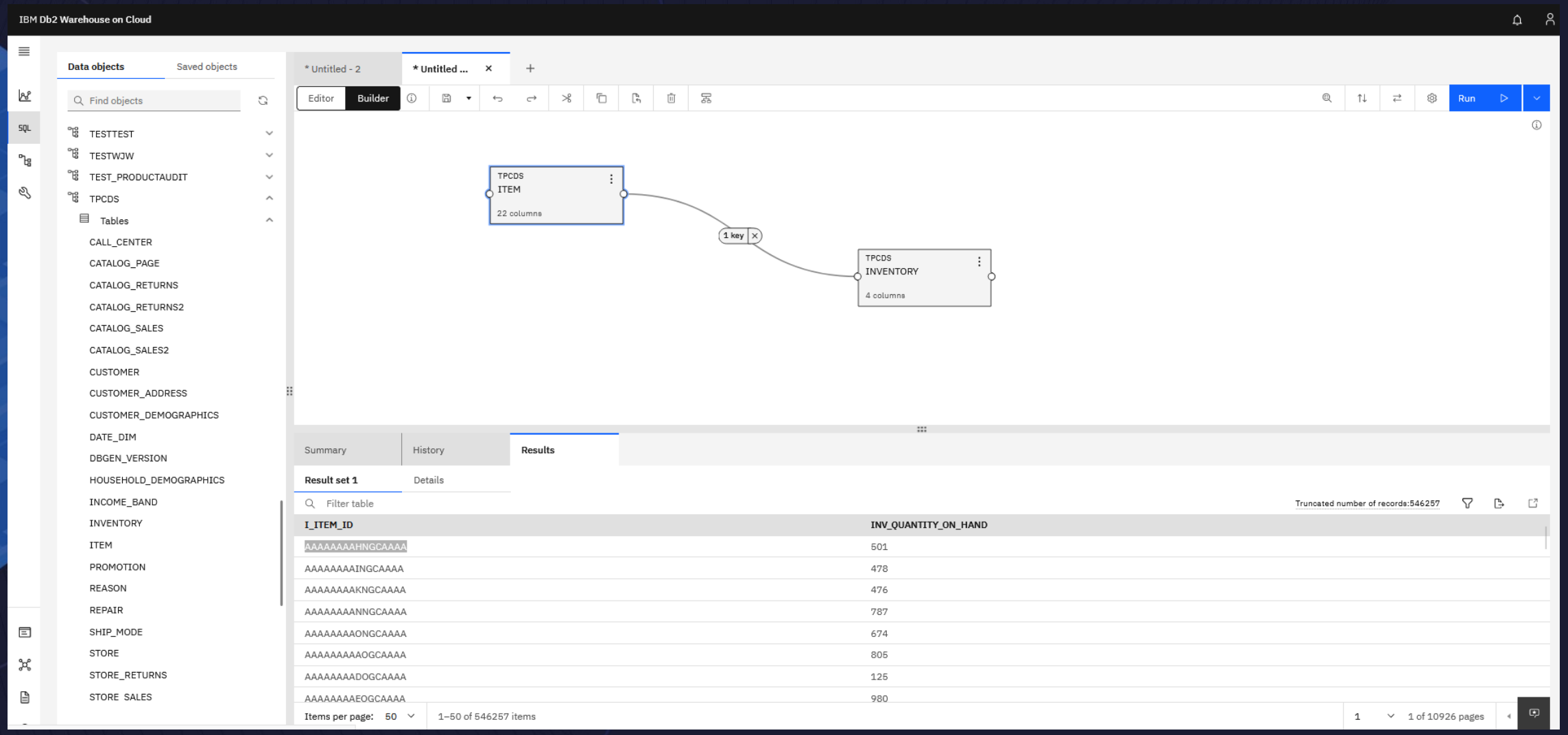
Create New Connection, Add Tags and filter by Tags, Dynamic filtering by Key KPIs



SQL Editor


IBM Db2 Warehouse on Cloud
Data objects
Saved objects
Find objects
TESTTEST
TESTWJW
TEST_PRODUCTAUDIT
TPCDS
Tables
CALL_CENTER
CATALOG_PAGE
CATALOG_RETURNS
CATALOG_RETURNS2
CATALOG_SALES
CATALOG_SALES2
CUSTOMER
CUSTOMER_ADDRESS
CUSTOMER_DEMOGRAPHICS
DATE_DIM
DBGEN_VERSION
HOUSEHOLD_DEMOGRAPHICS
INCOME_BAND
INVENTORY
ITEM
PROMOTION
REASON
REPAIR
SHIP_MODE
STORE
STORE_RETURNS
* Untitled - 1
* Untitled ...
Editor
Builder
Syntax assistant
Run all
1 SELECT "C_CUSTOMER_SK", "C_CUSTOMER_ID", "C_CURRENT_CDEMO_SK", "C_CURRENT_HDEMO_SK", "C_CURRENT_ADDR_SK", "C_FIRST_SHIPTO_DATE_SK", "C_FIRST_SALES_DATE_SK", "C_SALUTATION", "C_FIRST_NAME", "C_LAST_NAME", "C_PRE
2 FROM "TPCDS"."CUSTOMER";
3
Generate DML
View details
Select
Insert
Update
Delete
Select
History

SQL Builder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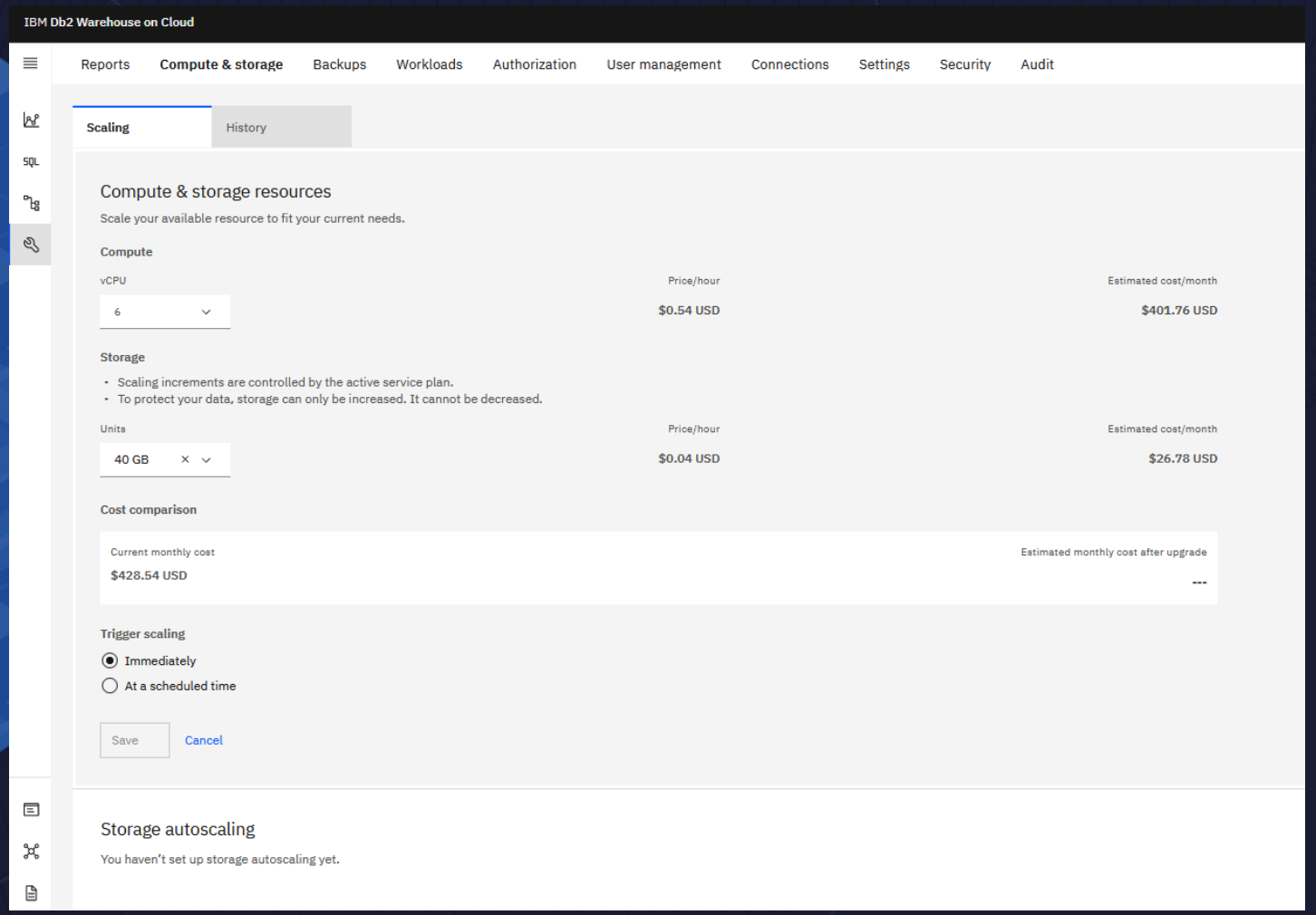
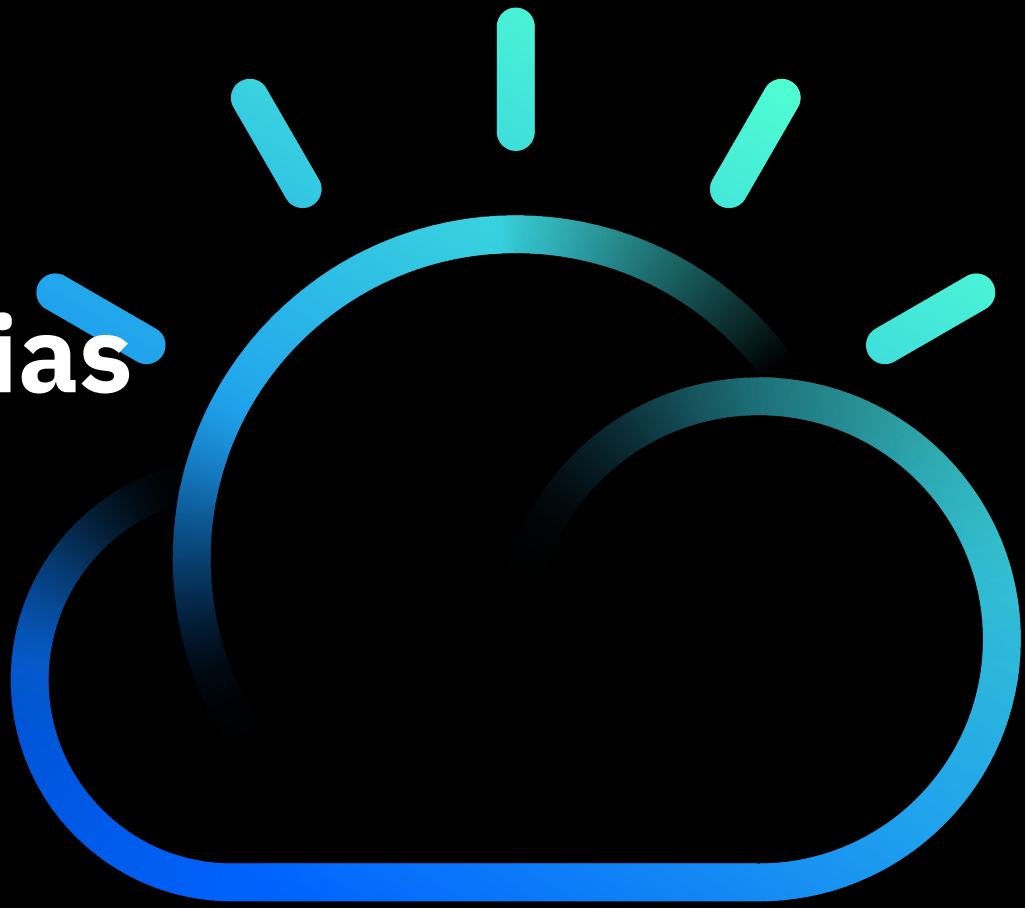
CUSTOMER
CUSTOMER_ADDRESS
CUSTOMER_DEMOGRAPHICS
DATE_DIM
DBGEN_VERSION
HOUSEHOLD_DEMOGRAPHICS
INCOME_BAND
INVENTORY
ITEM
PROMOTION
REASON
REPAIR
SHIP_MODE
STORE
STORE_RETURNS
STORE_SALES
* Untitled - 2
* Untitled ...
Editor
Builder
Run
TPCDS
ITEM
22 columns
1 key
TPCDS
INVENTORY
4 columns
Summary
History
Results
Result set 1
Details
Filter table
Truncated number of records:546257
I_ITEM_ID
INV_QUANTITY_ON_HAND
AAAAAAAAHNGCAAAA 501
AAAAAAAAINGCAAAA 478
AAAAAAAAKNGCAAAA 476
AAAAAAAANNGCAAAA 787
AAAAAAAAONGCAAAA 674
AAAAAAAAAOGCAAAA 805
AAAAAAAADOGCAAAA 125
AAAAAAAAEOGCAAAA 980
Items per page: 50
1–50 of 546257 items
1
1 of 10926 pages

Scale Compute and Storage



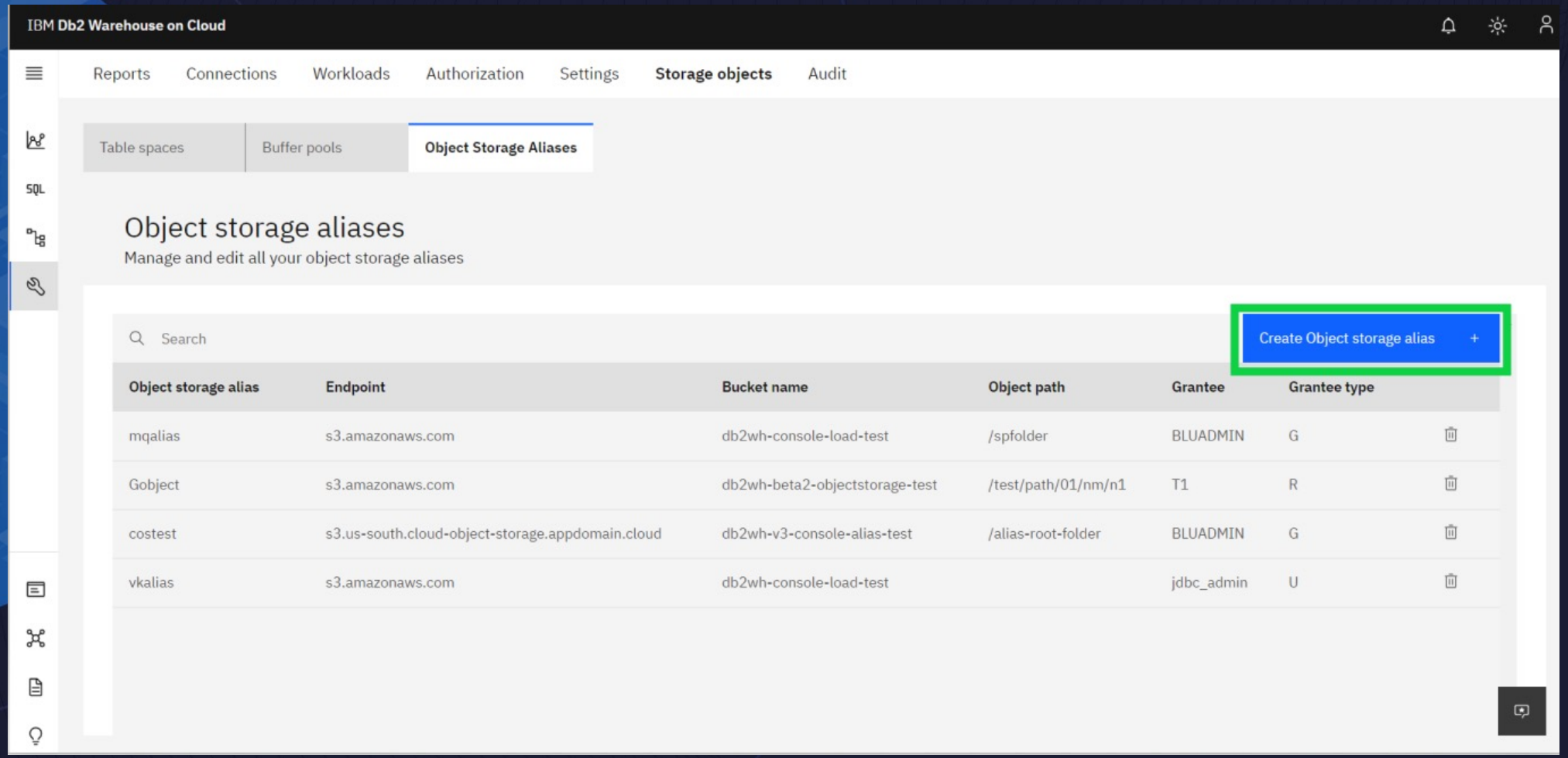
Create Object Storage Alias



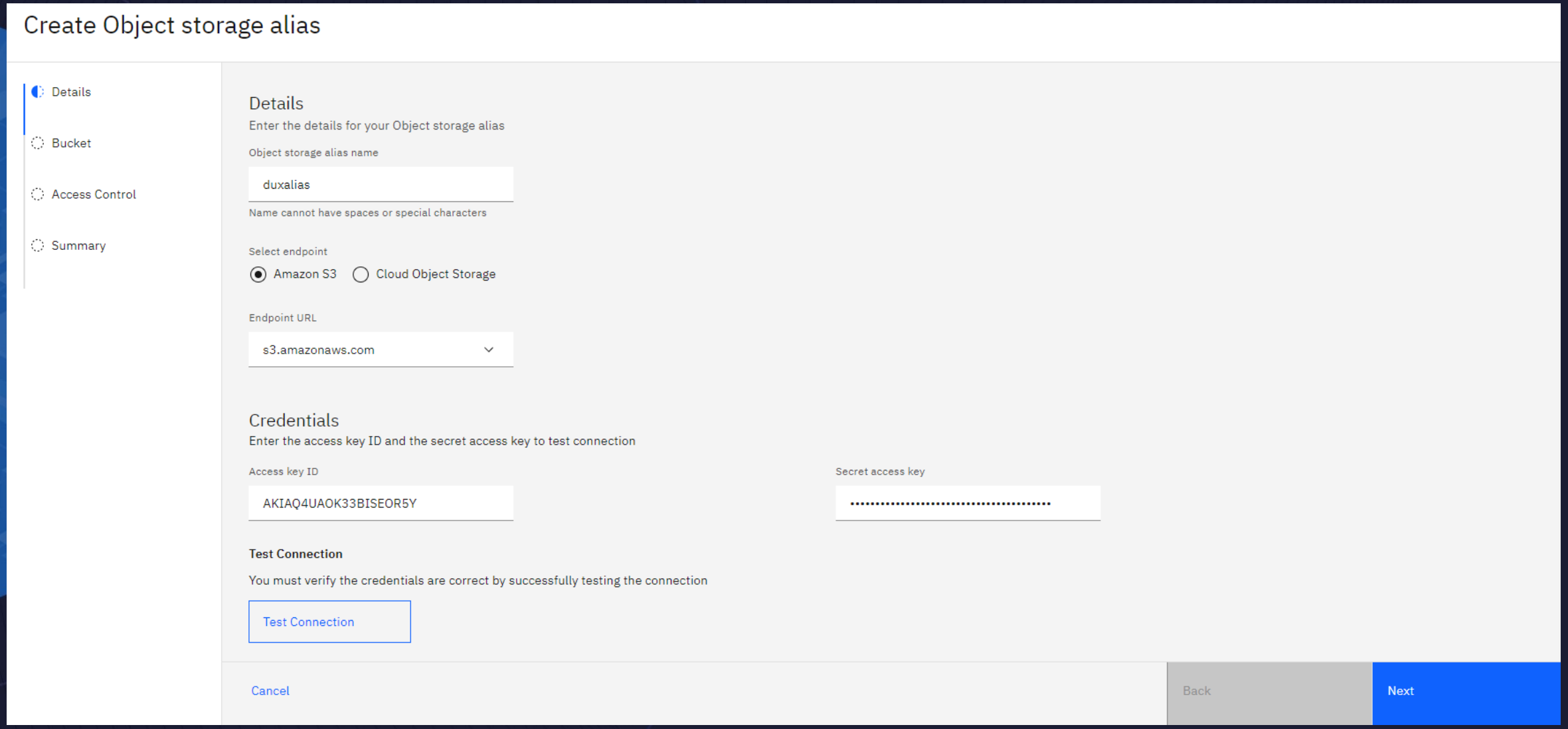
Purpose: to establish connection to object storage bucket

Create Object Storage Alias (New)

To help you access object storage

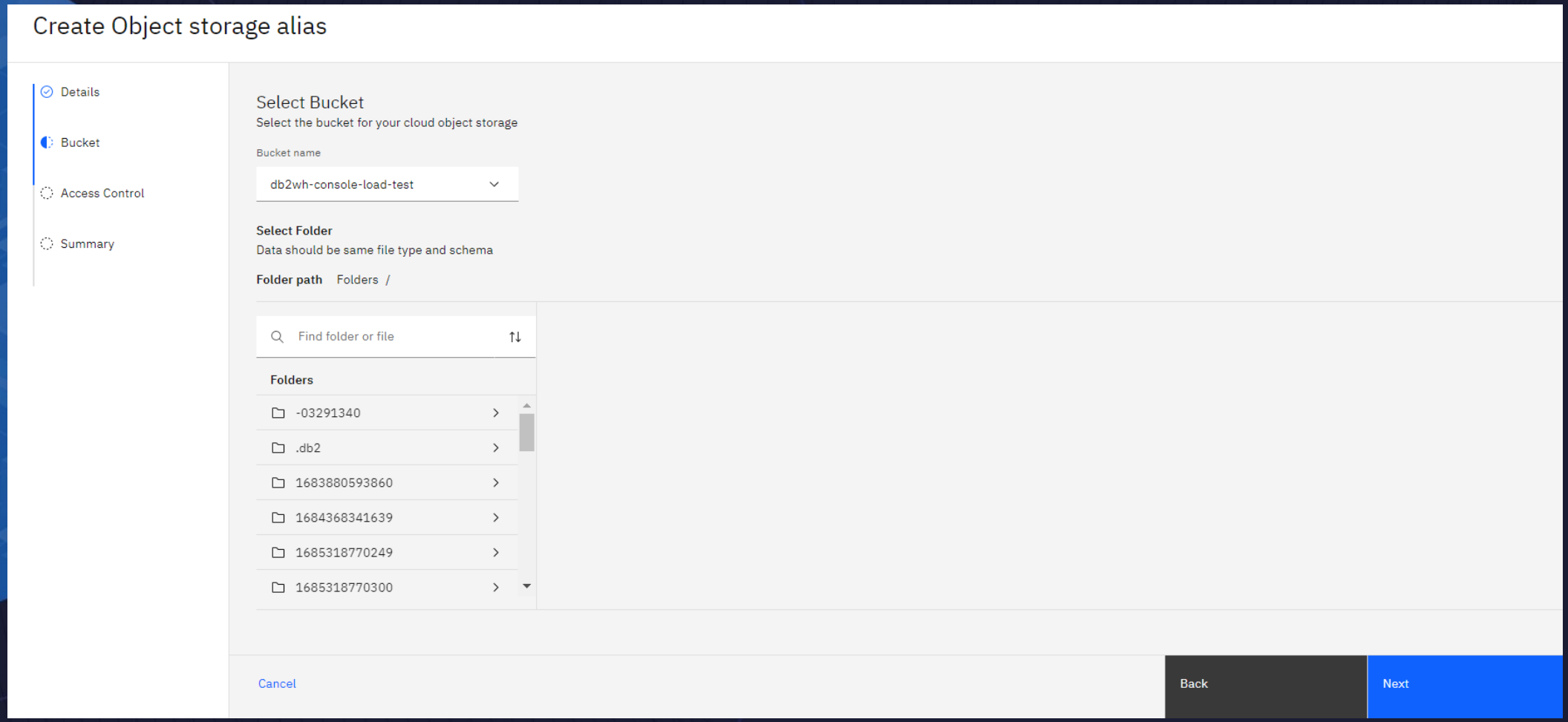


Create Object Storage Alias

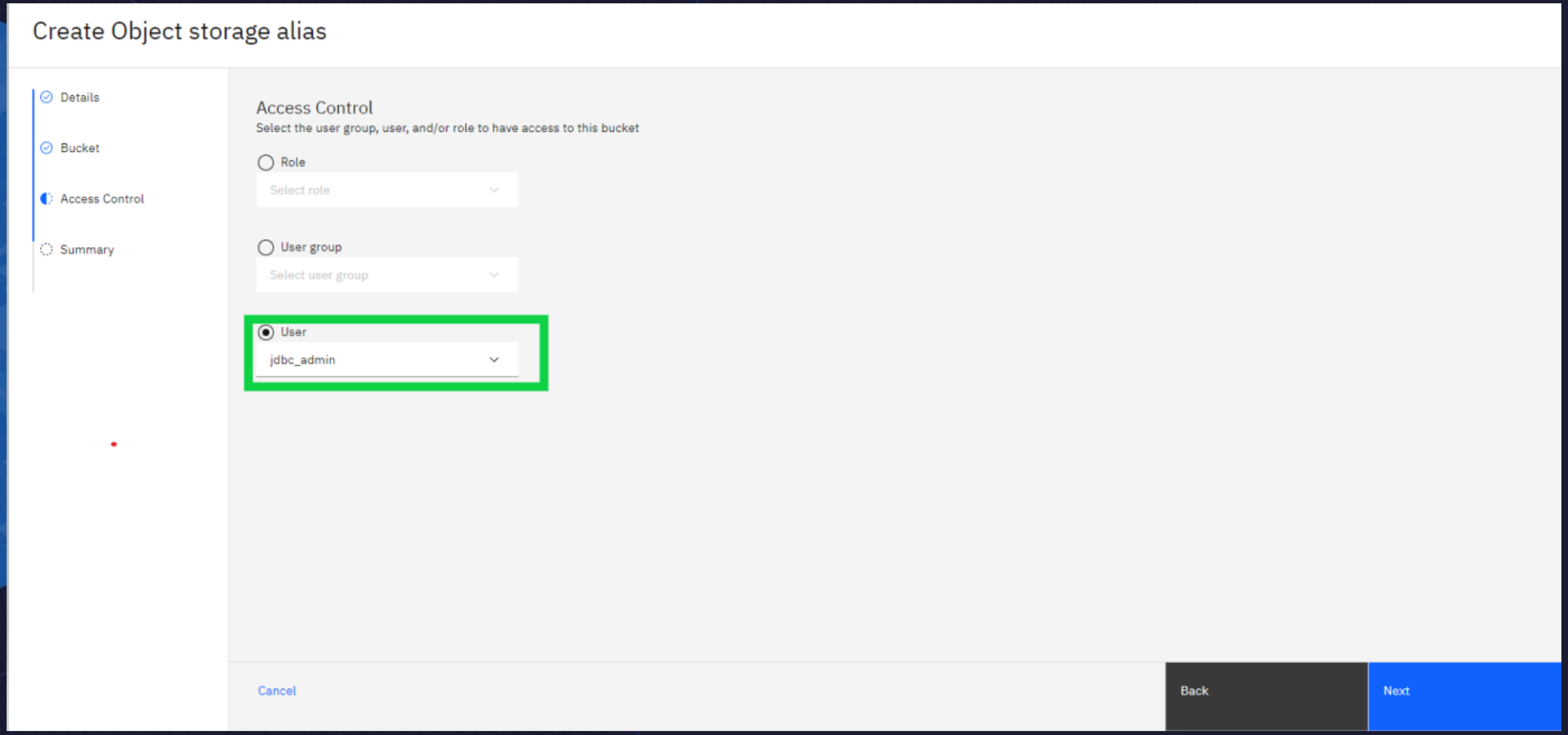


Create Object Storage Alias

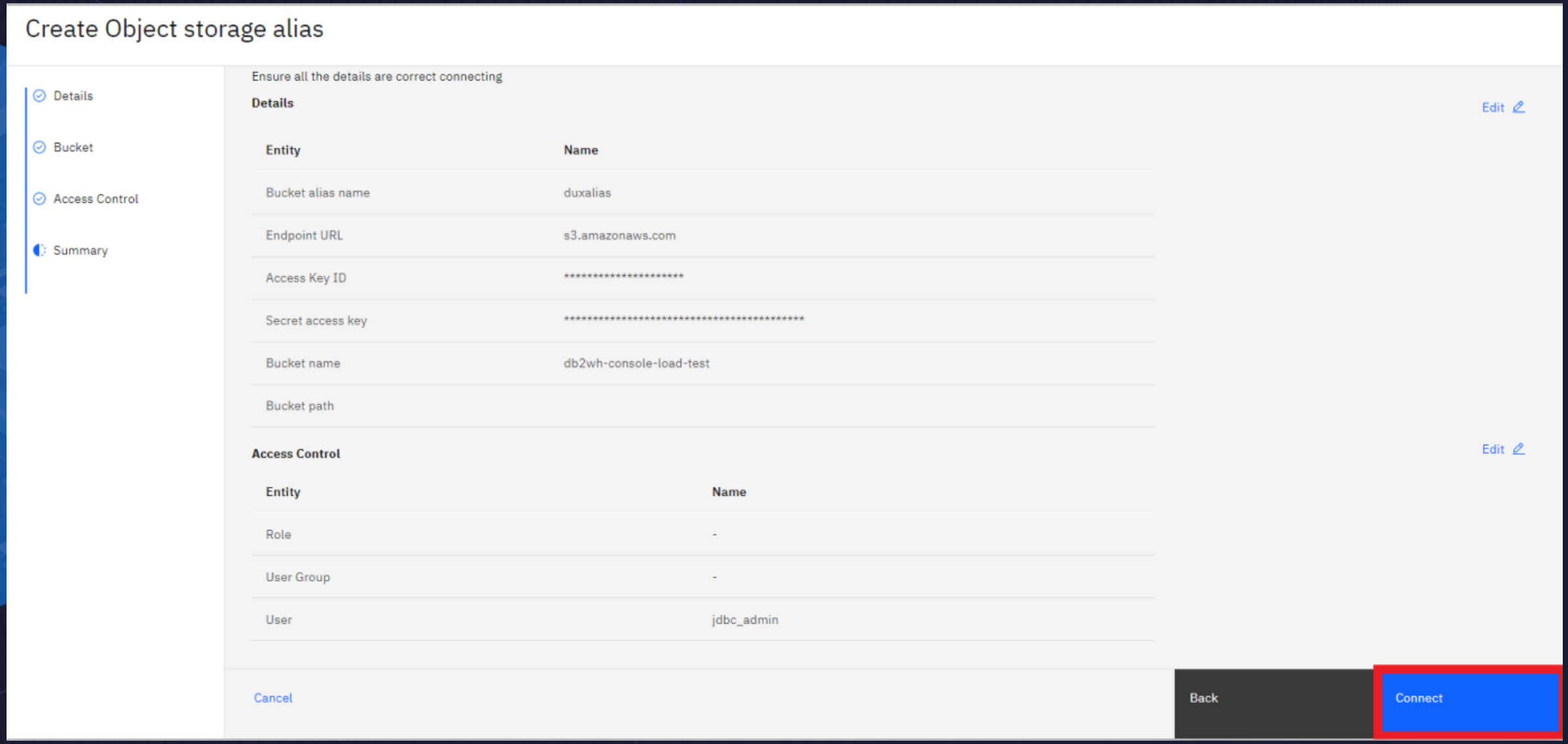
No folder is selected



Create Object Storage Alias

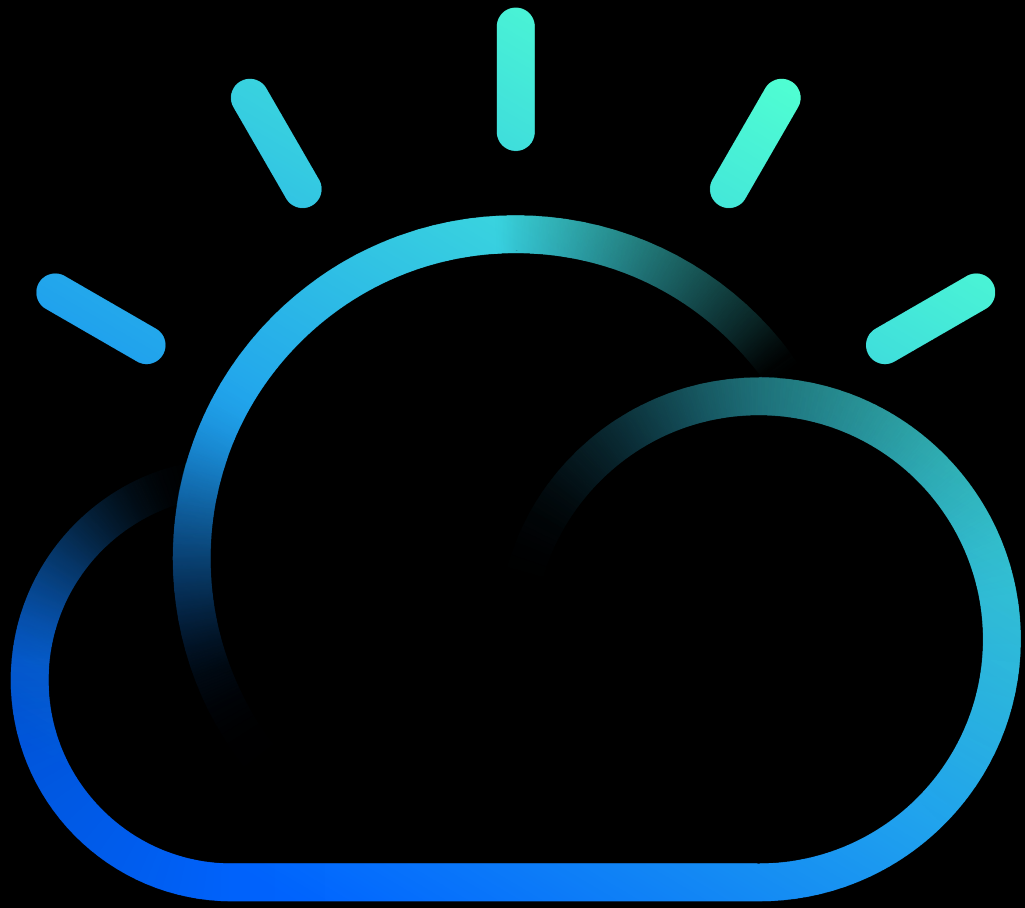


Create Object Storage Alias

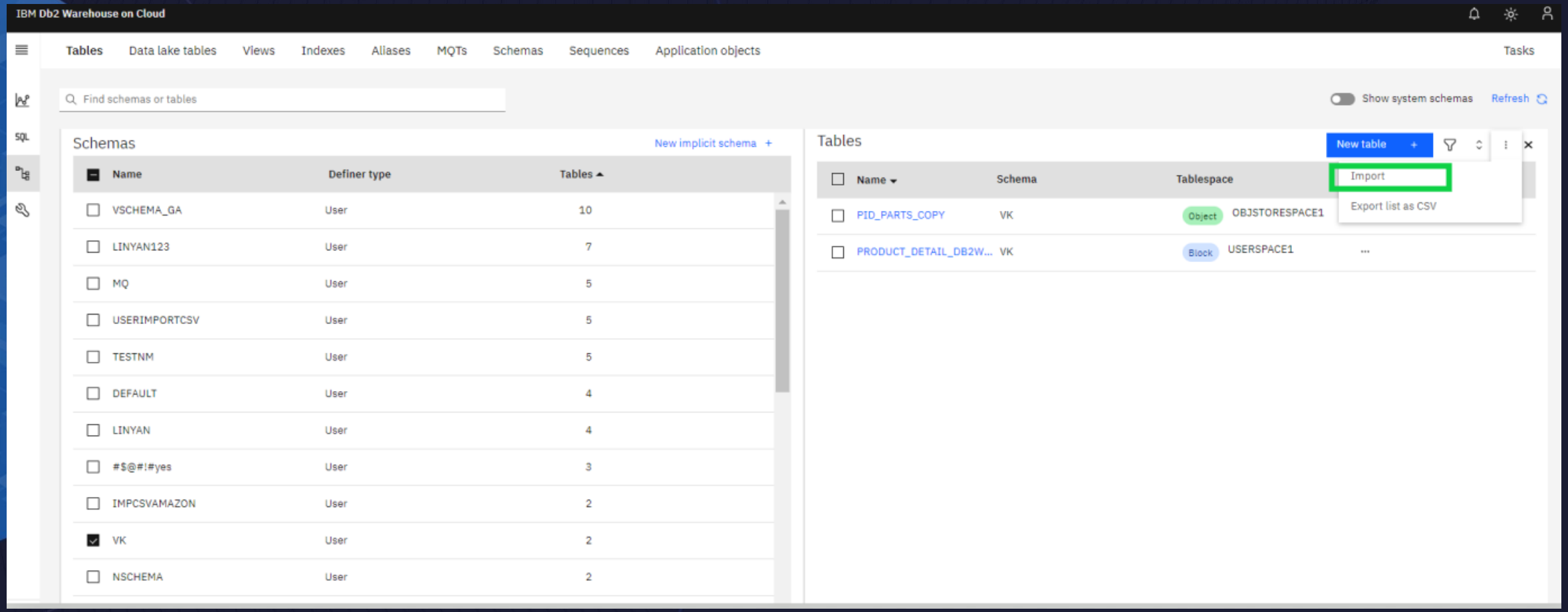


Import Data - Local

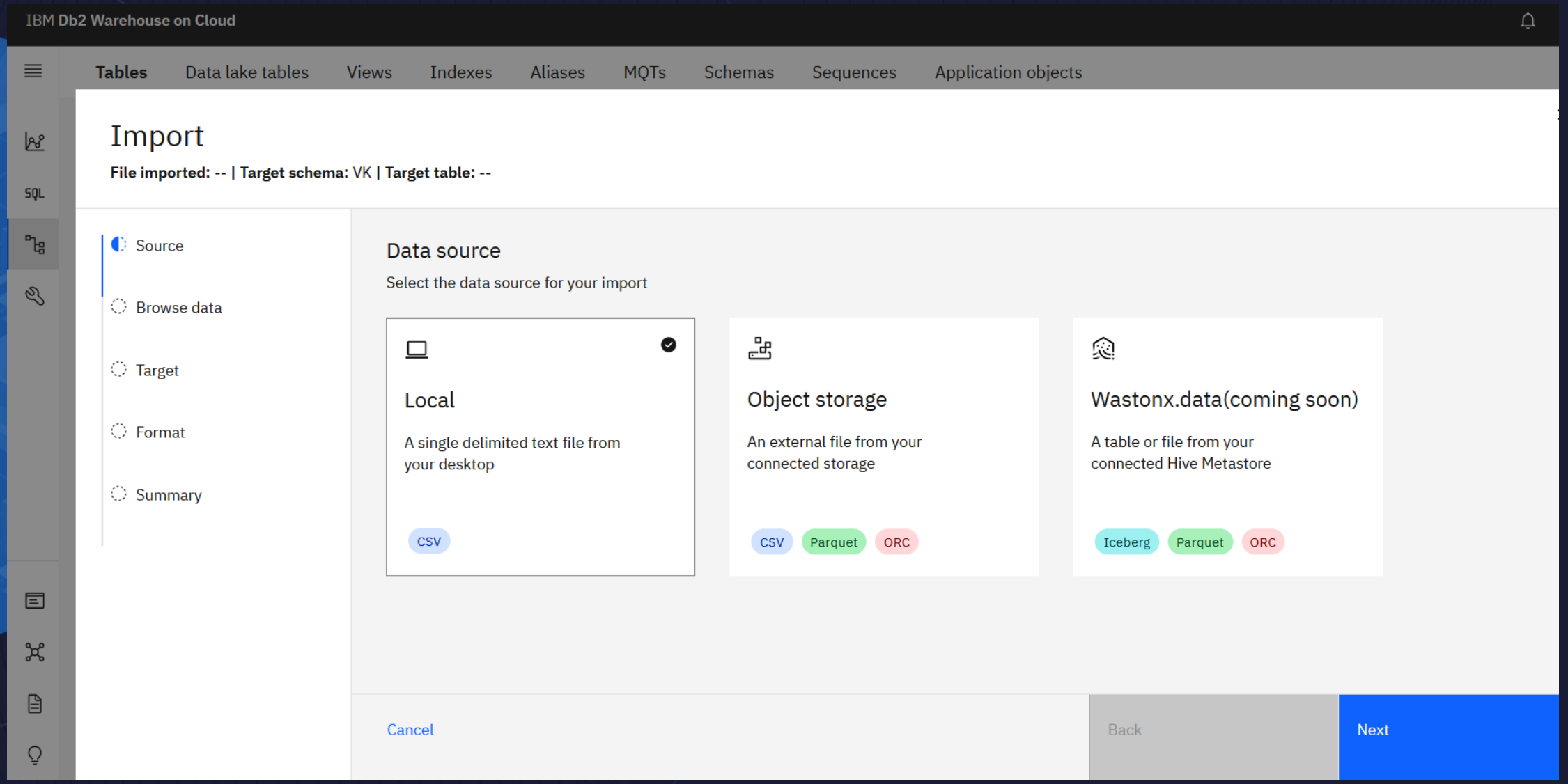
Purpose: bring in your local .csv files into Db2 tables



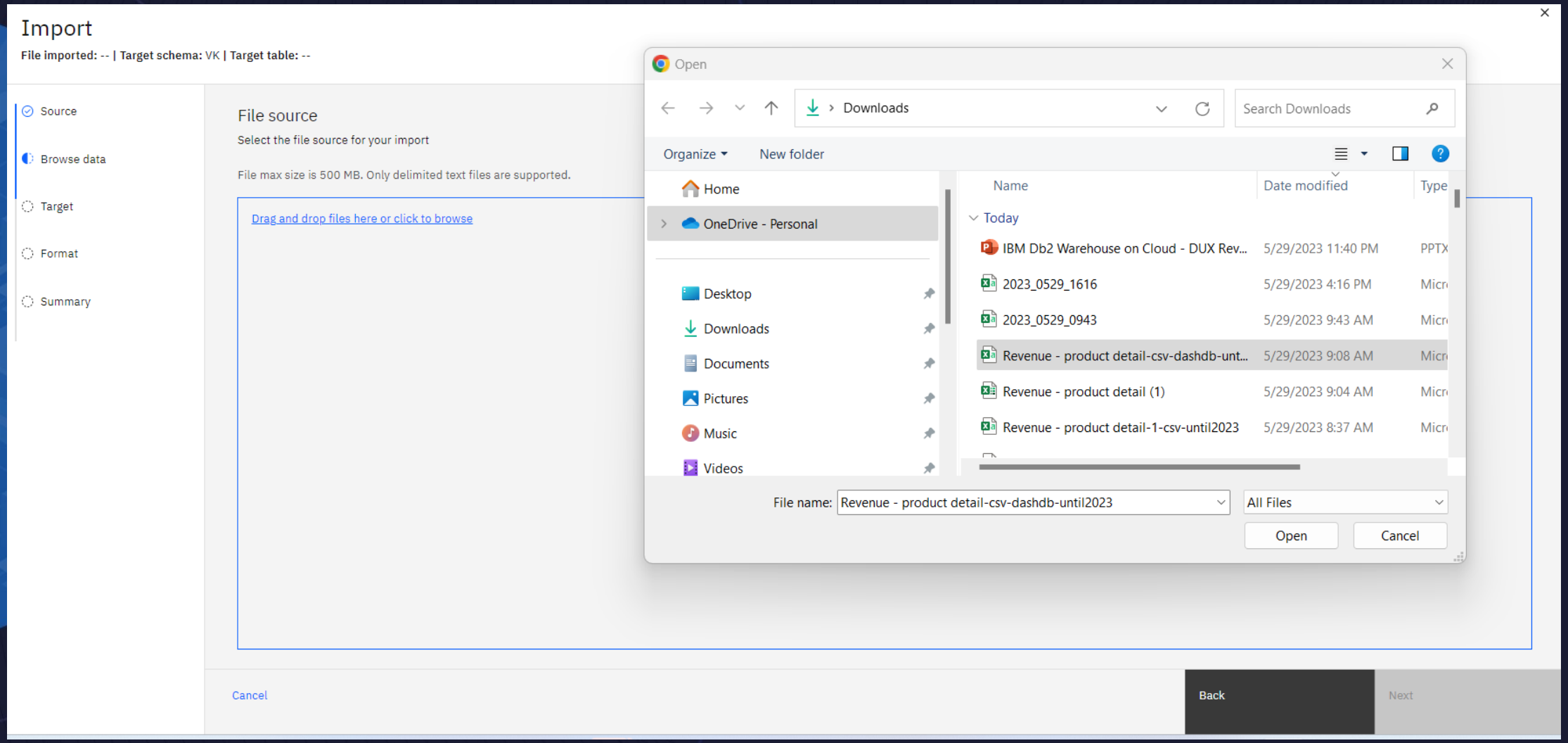
Import Data from local CSV file



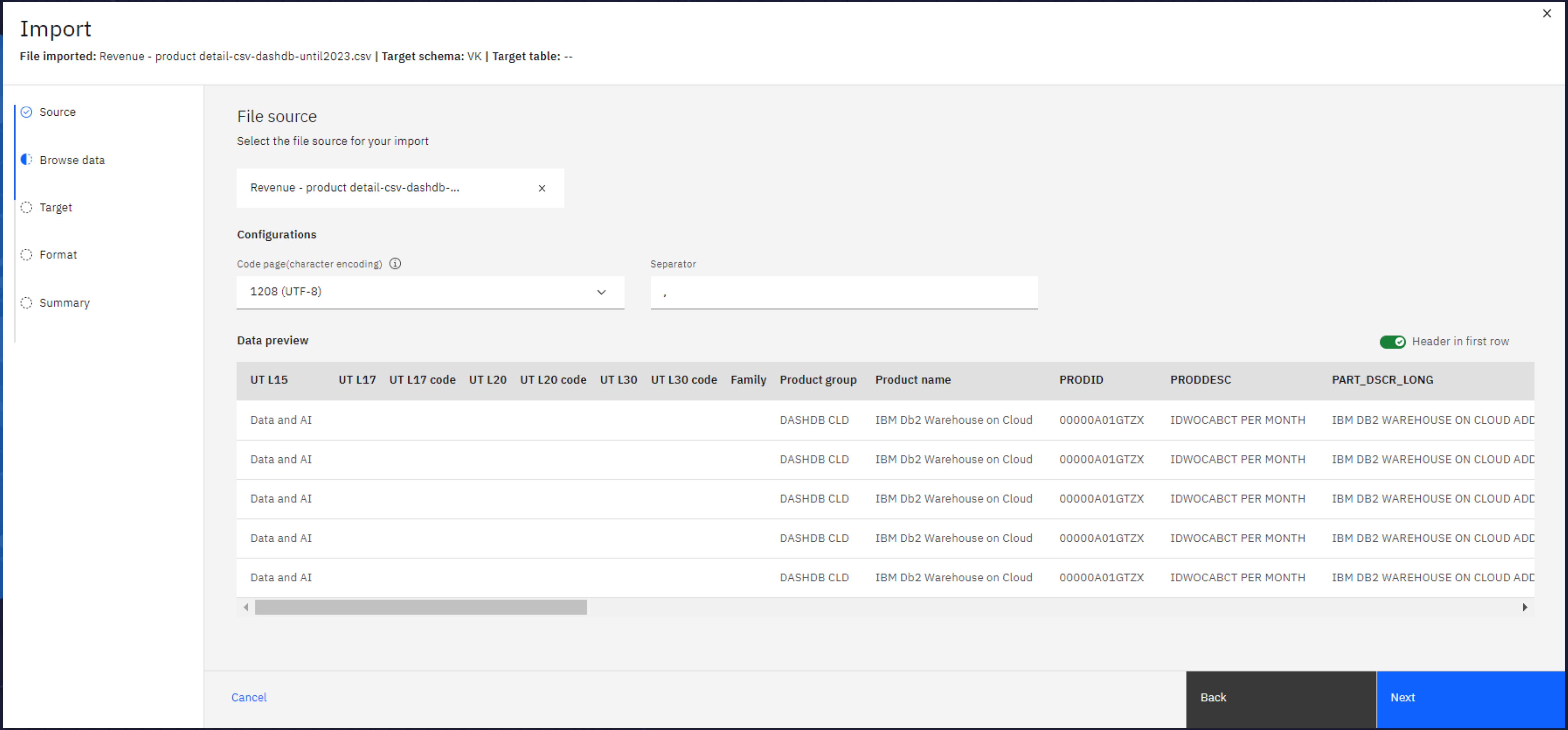
Import Data from local CSV file



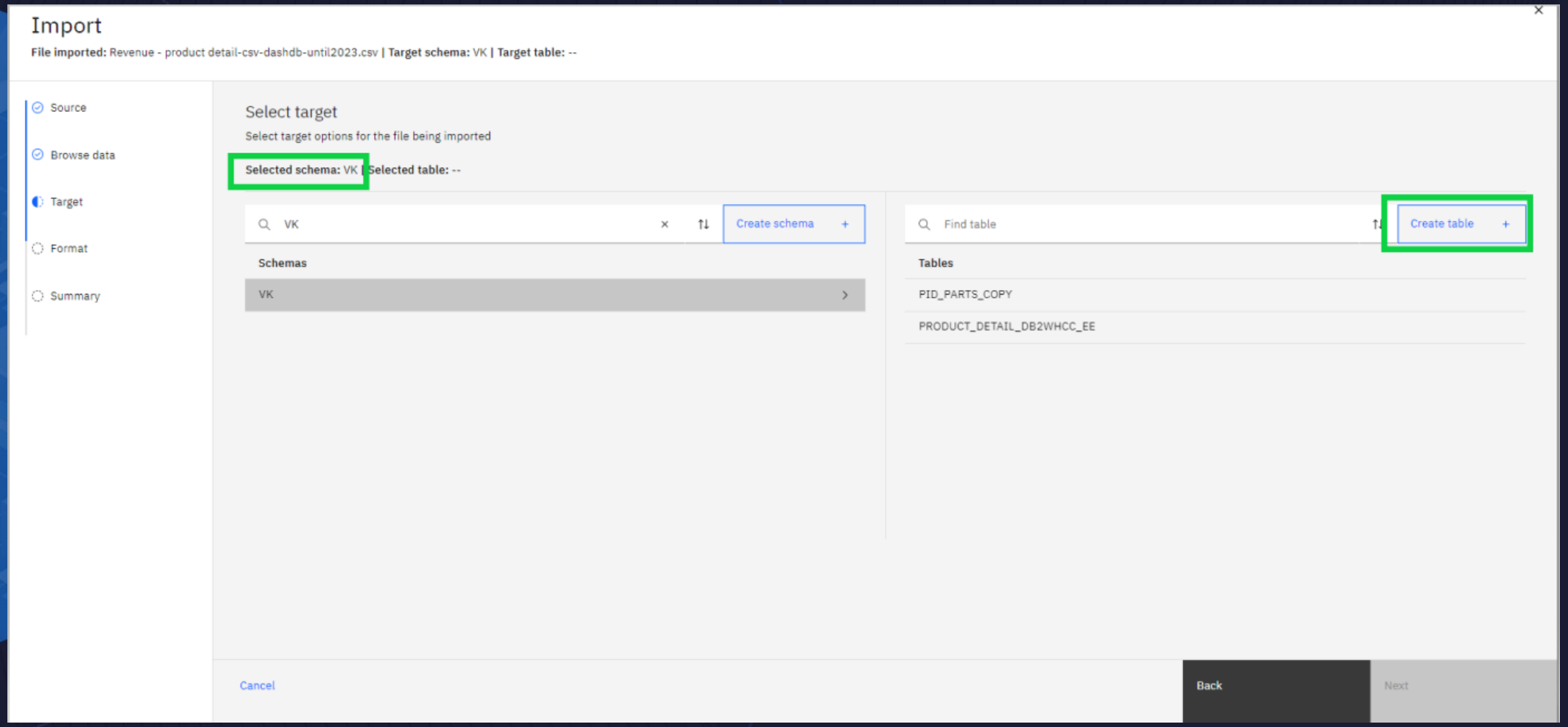
Import Data from local CSV file



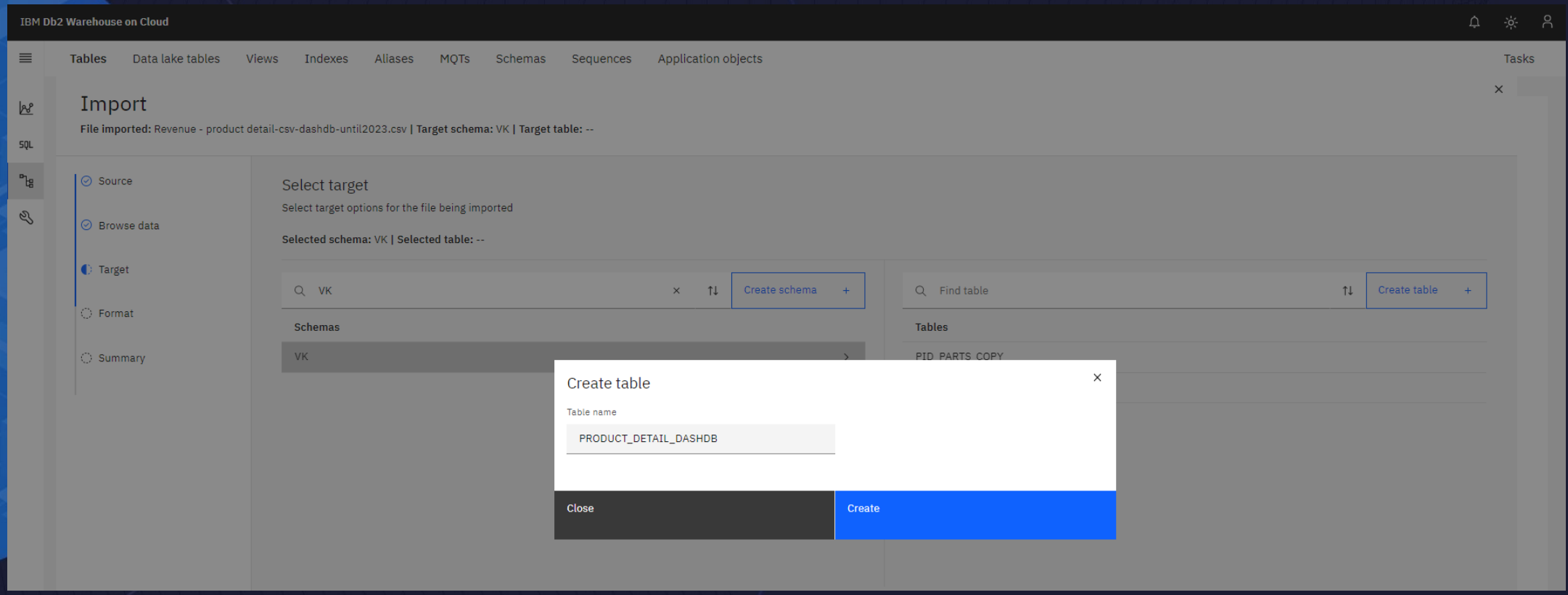
Import Data from local CSV file



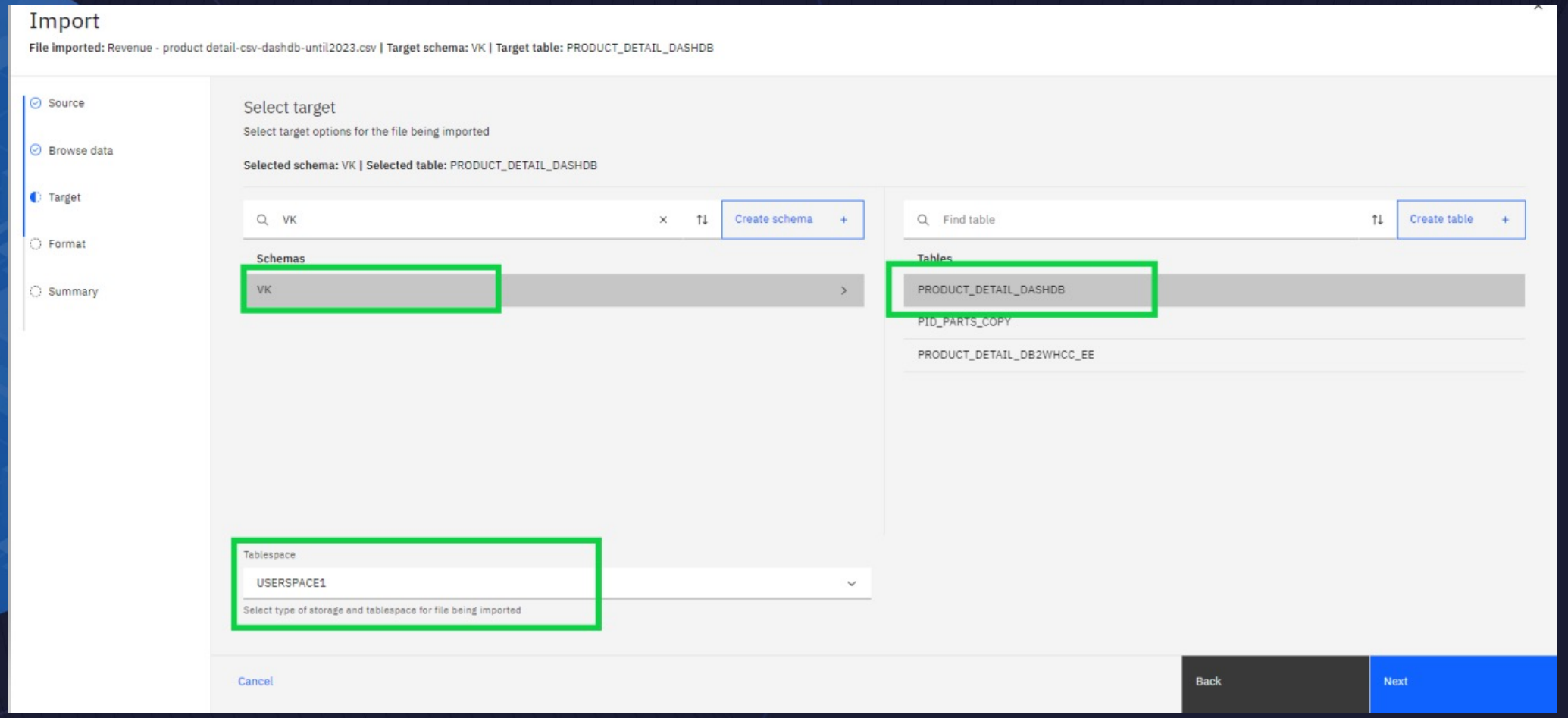
Import Data from local CSV file



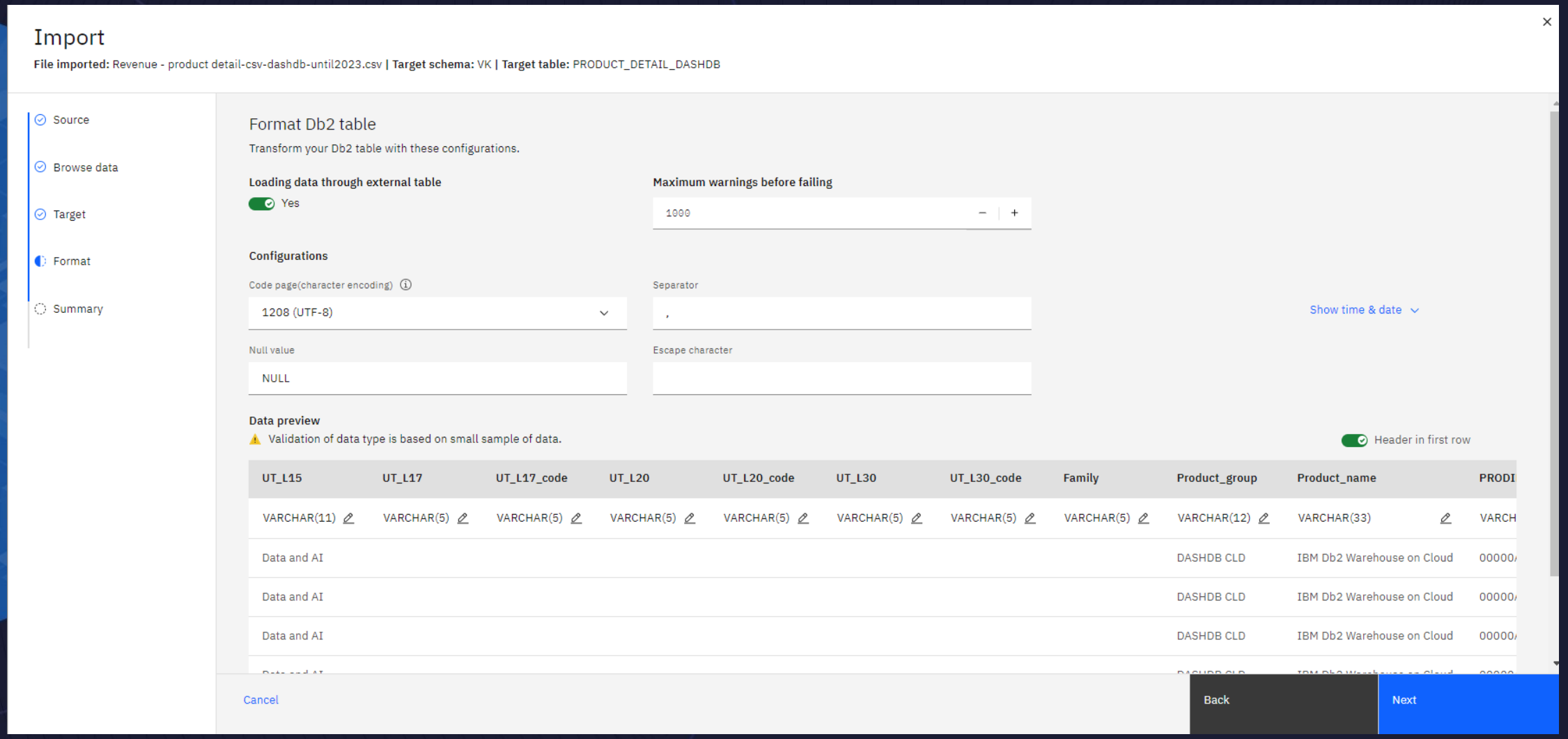
Import Data from local CSV file



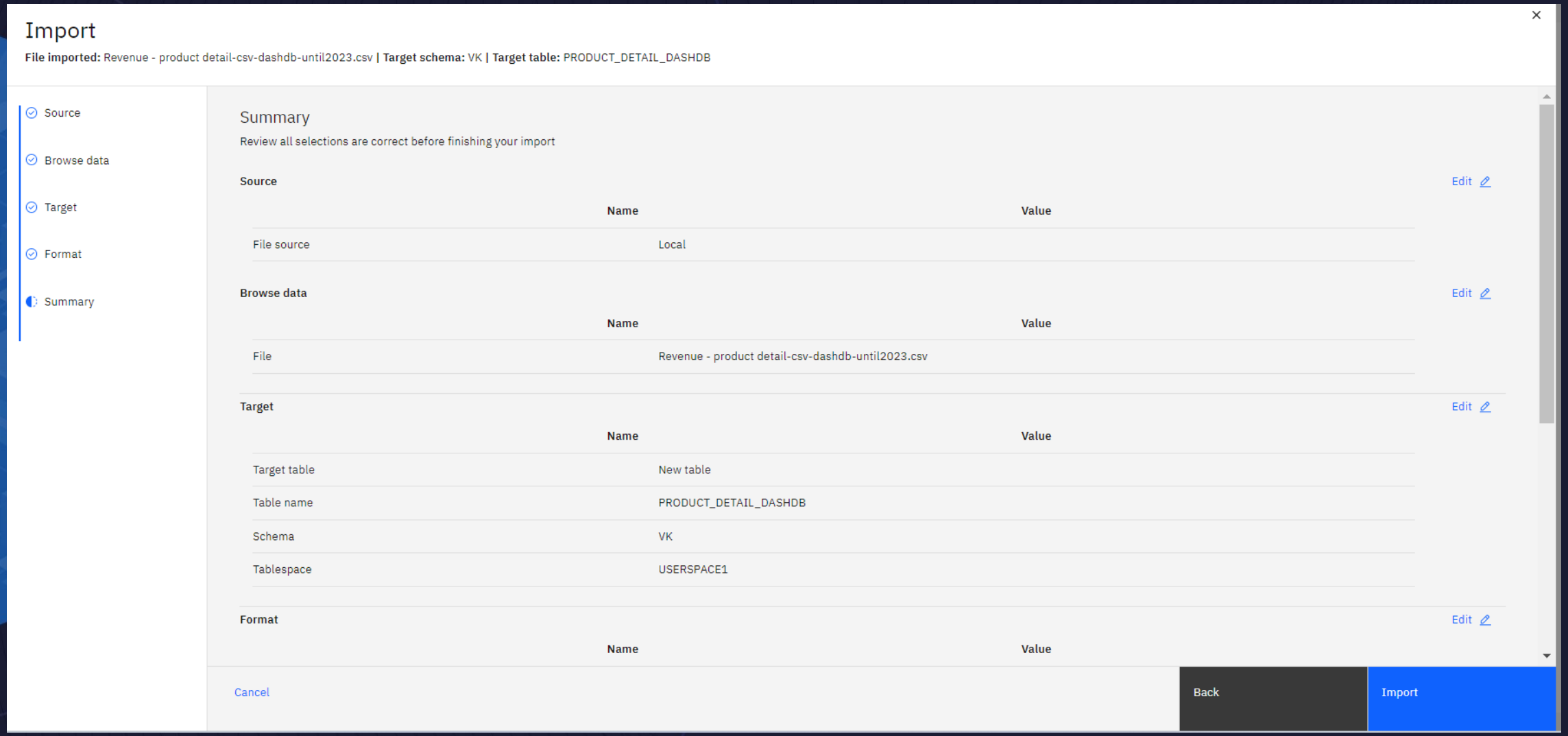
Import Data from local CSV file



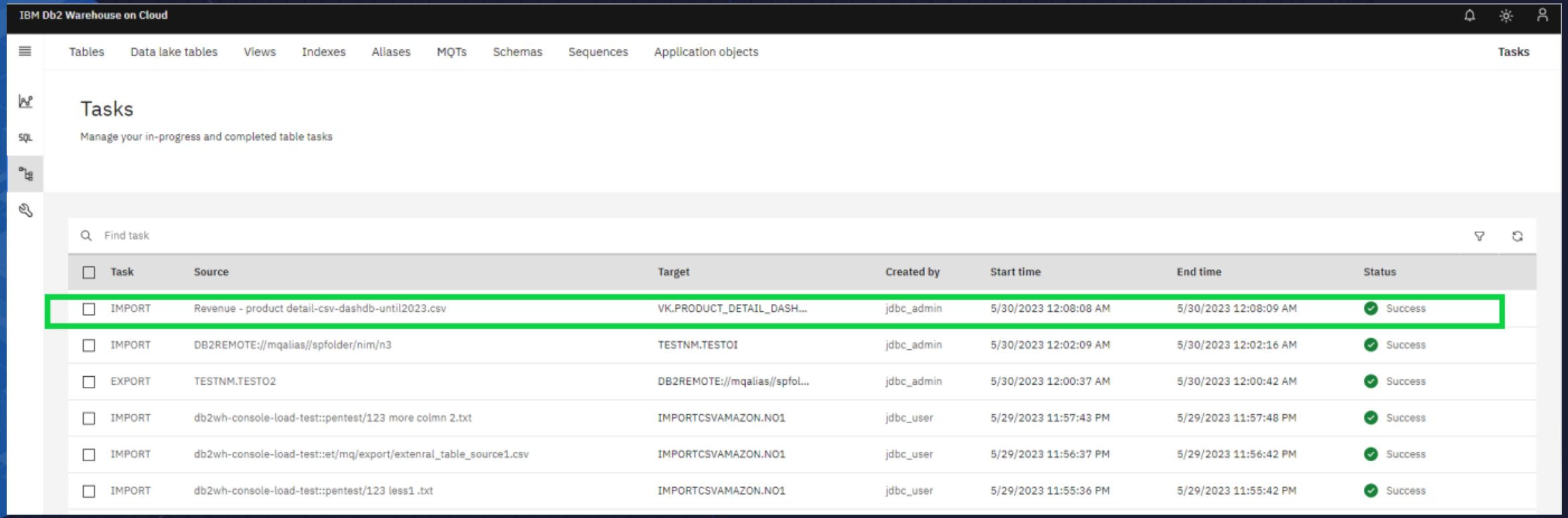
Import Data from local CSV file



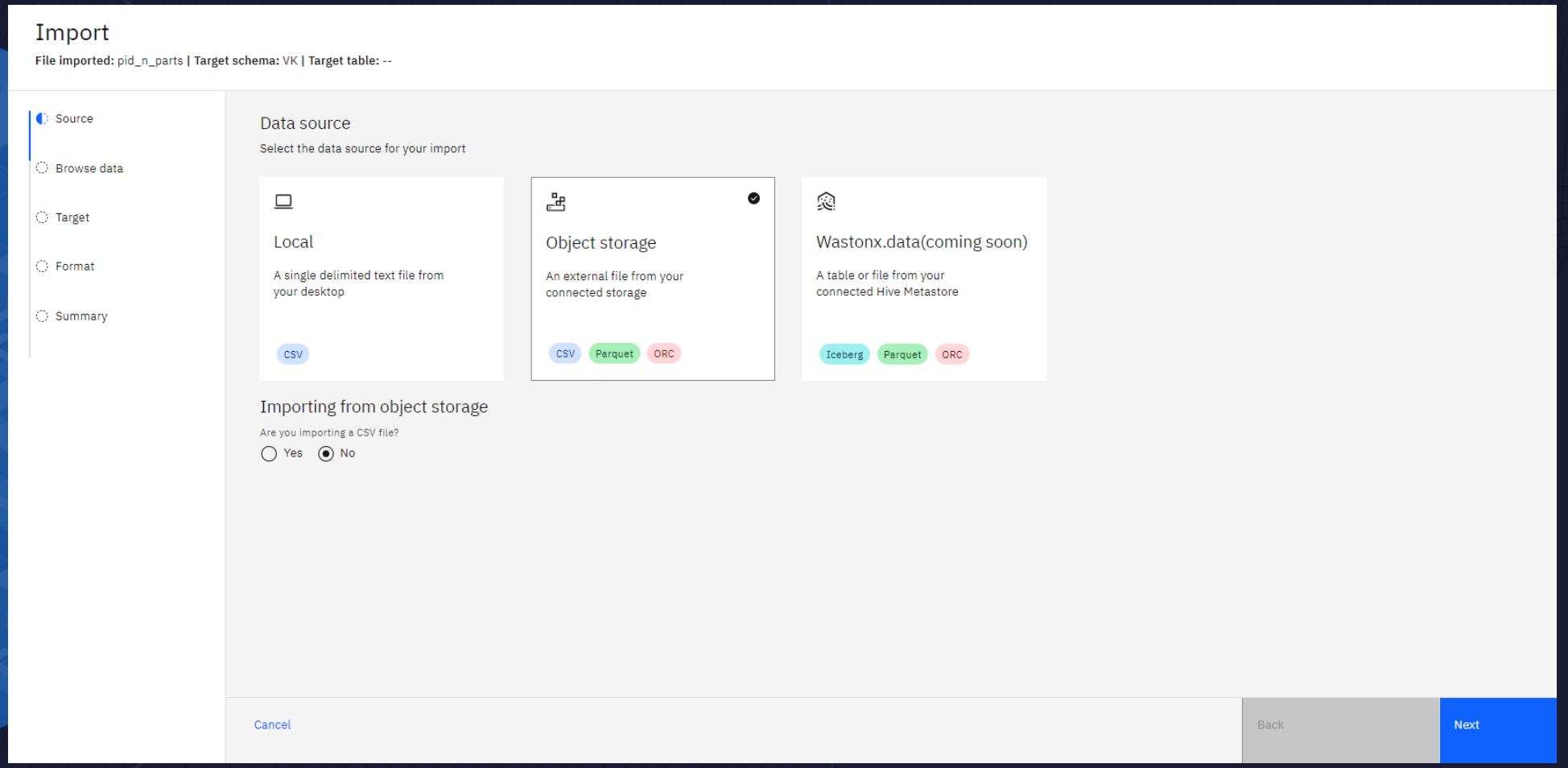
Import Data from local CSV file



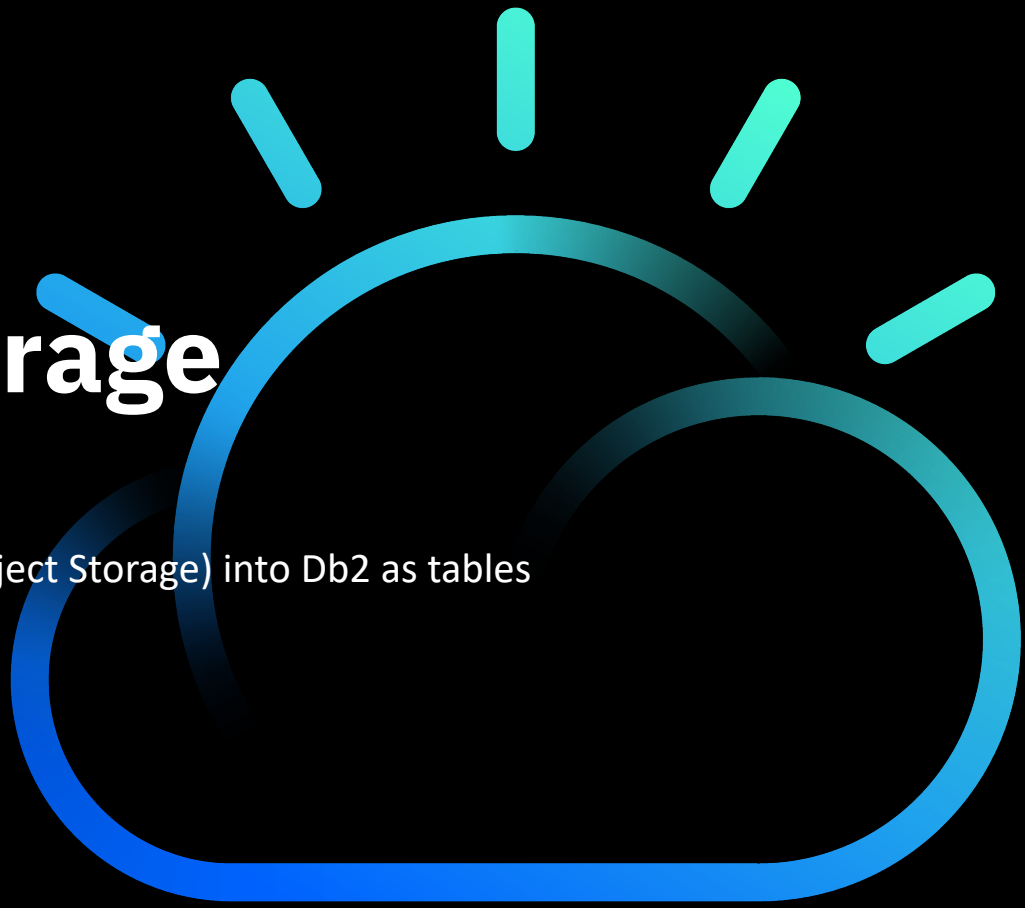
Import Data from local CSV file



Import from Object Storage (new)

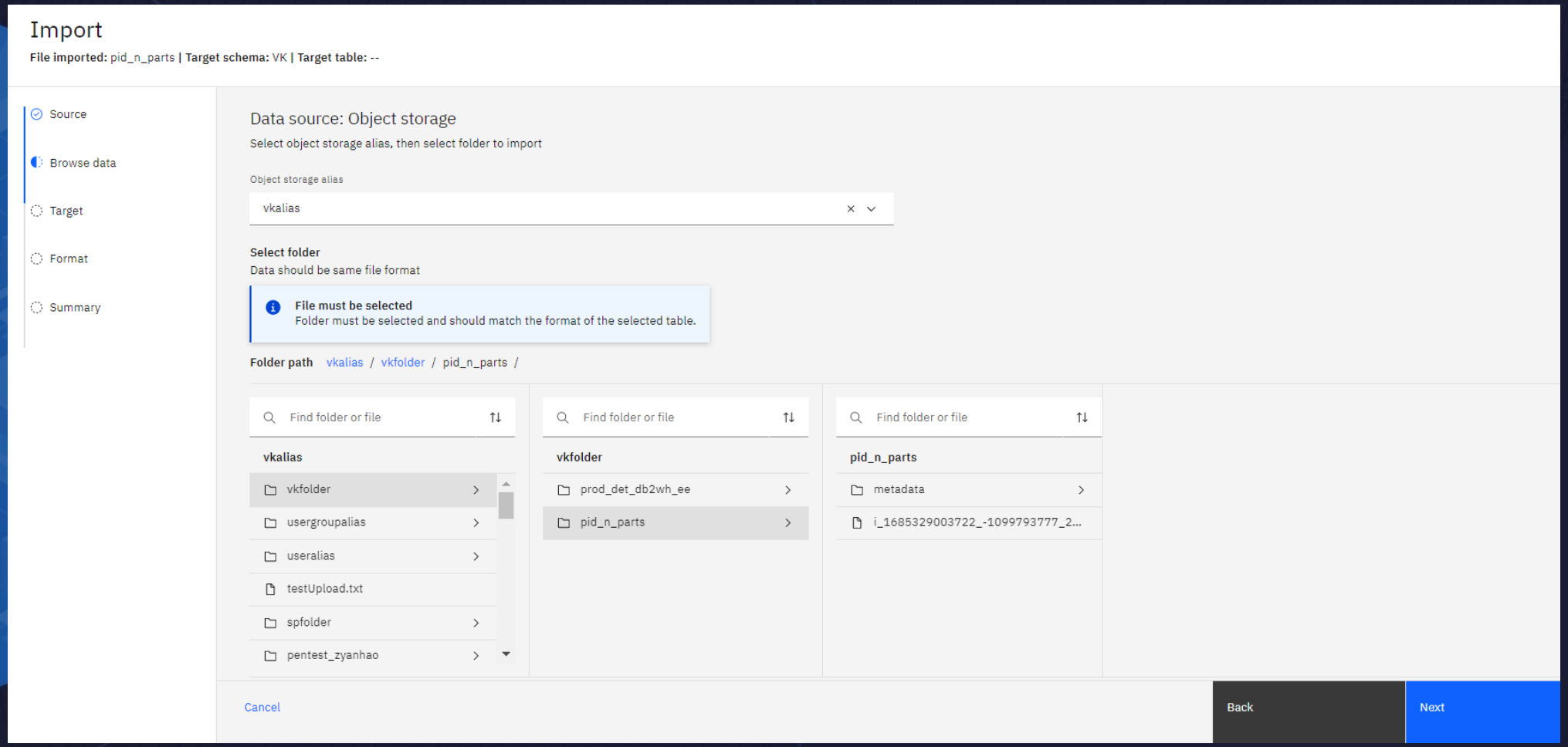


Import Data – Object Storage

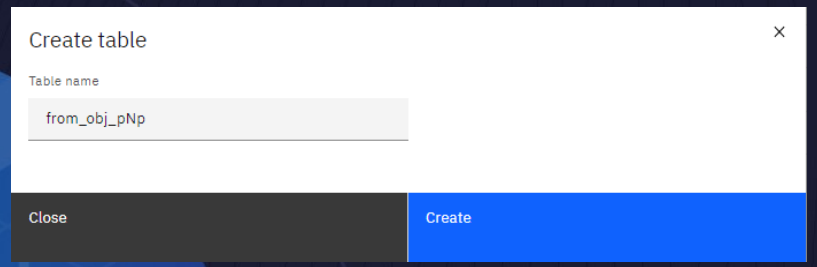


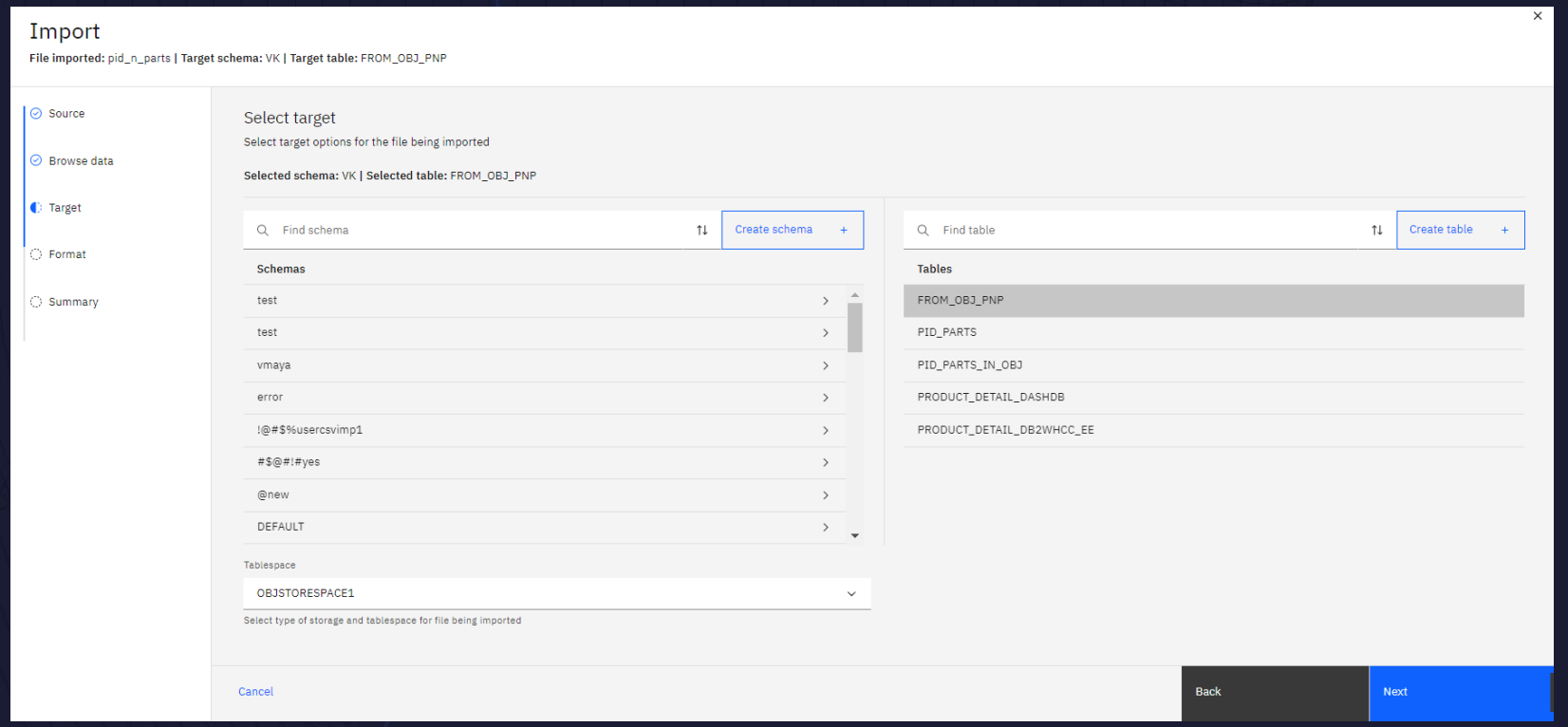
Purpose: bring in files from object storage (Amazon S3 or IBM Cloud Object Storage) into Db2 as tables

Import from Object Storage (new)

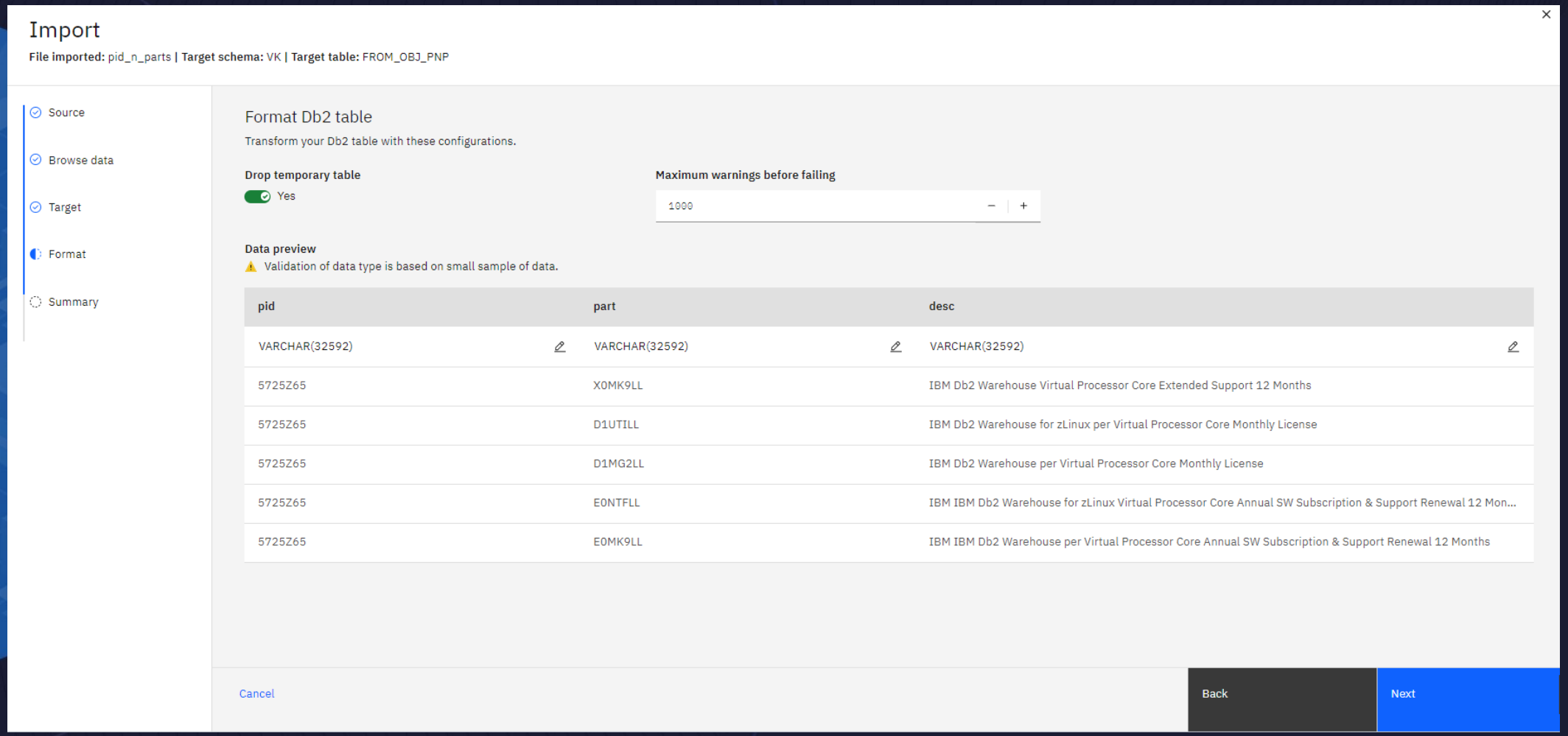


Import from Object Storage (new)

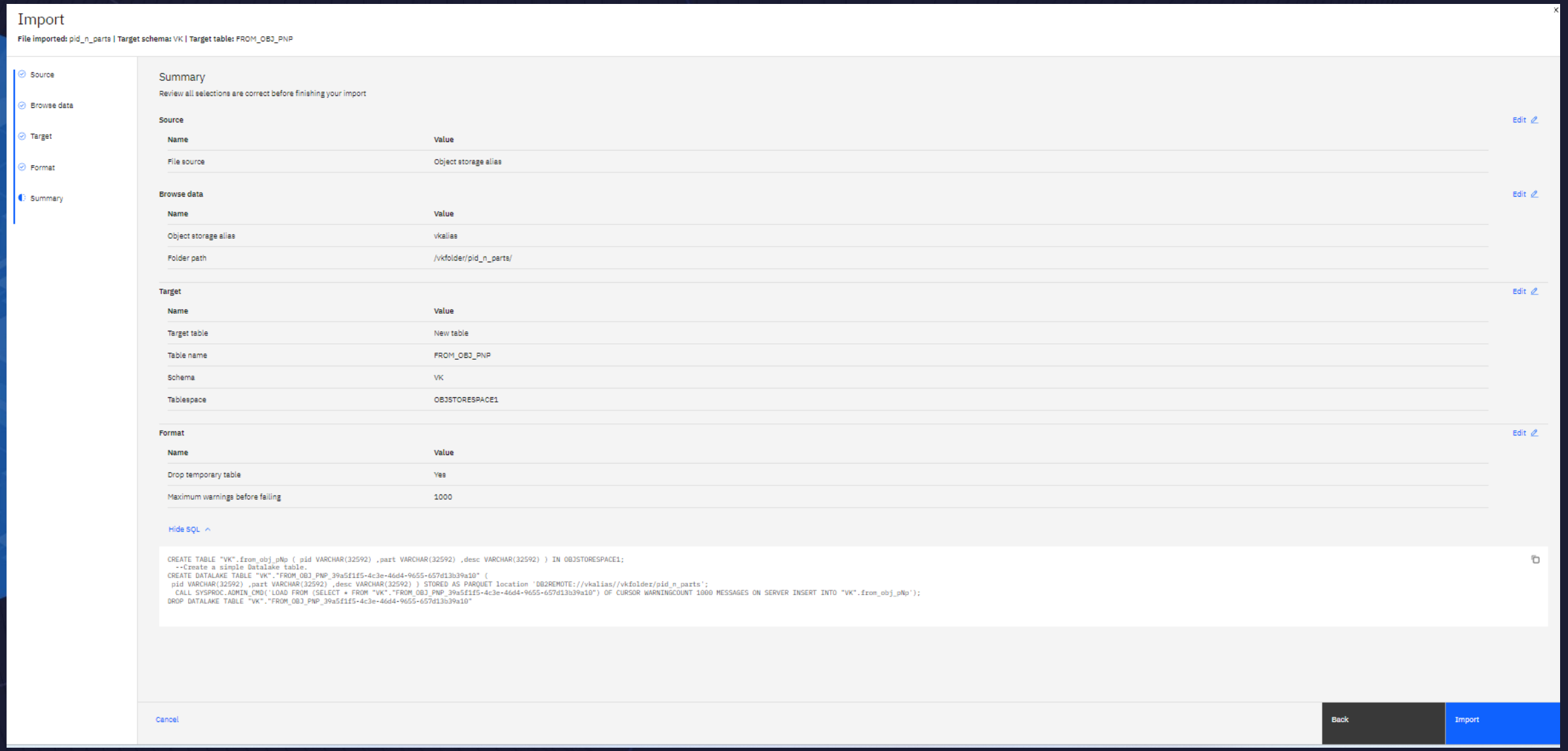




Import from Object Storage (new)



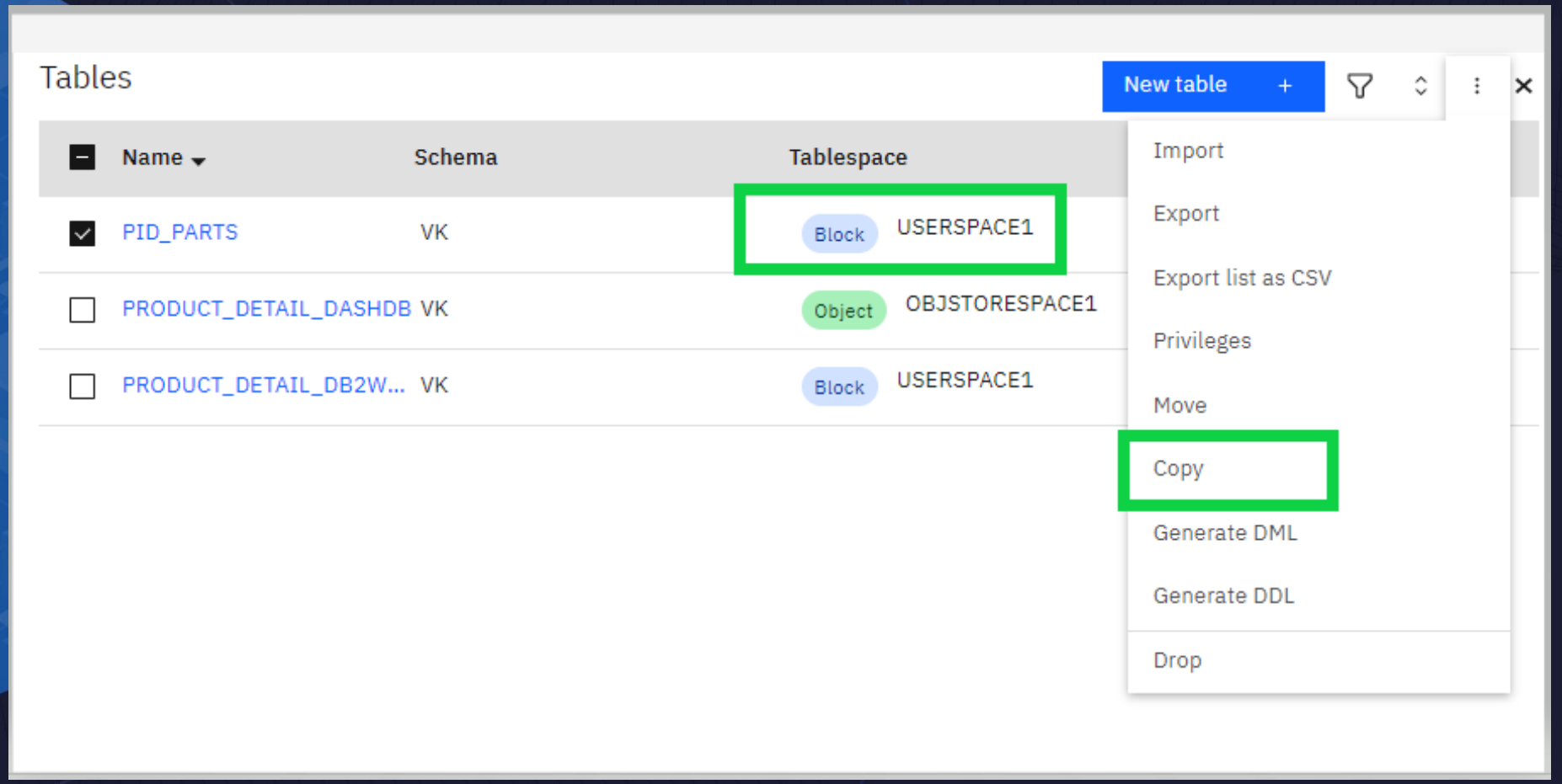
Import from Object Storage (new)



Copy

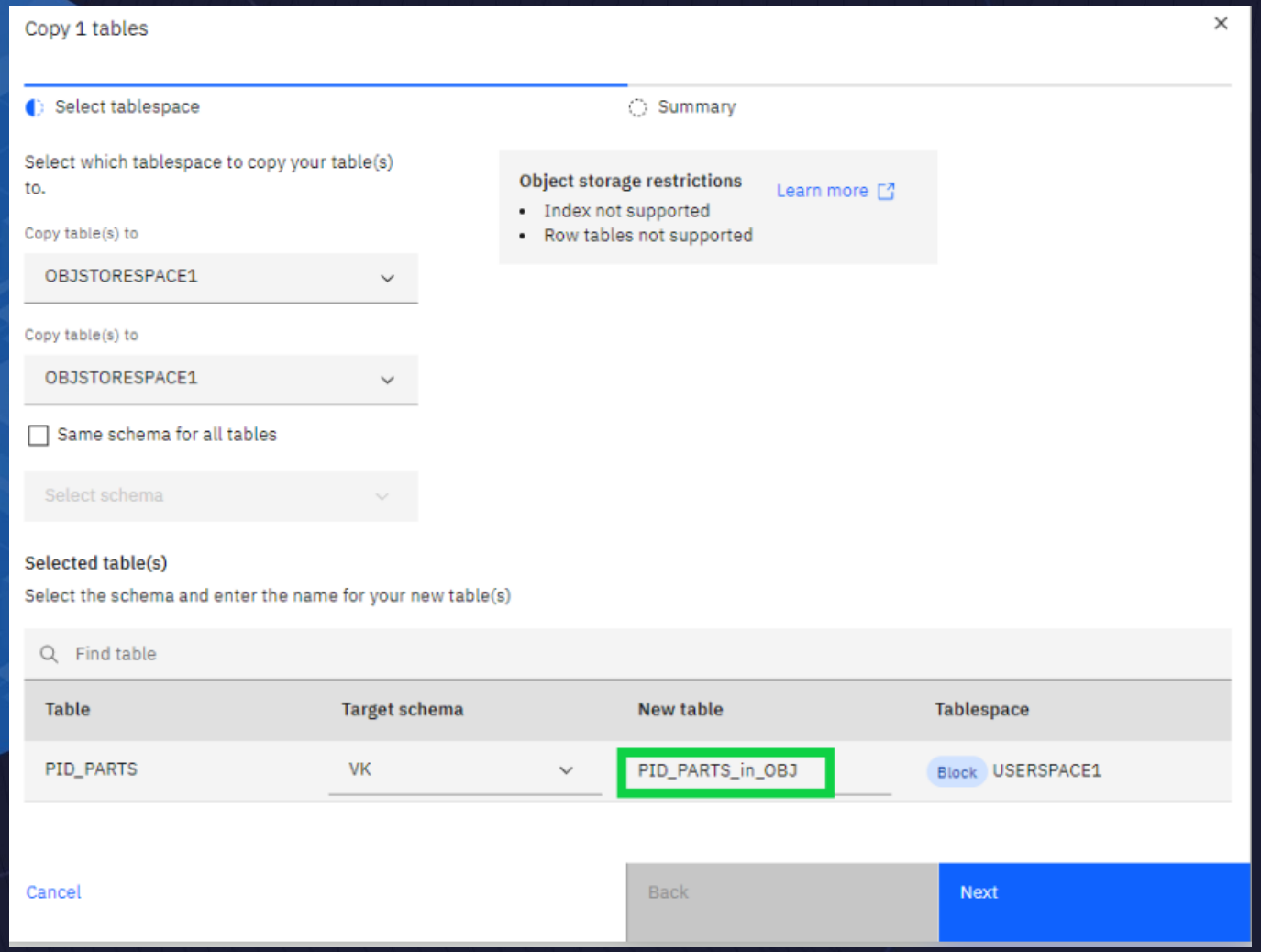
Purpose:
- probably to take a copy of the table prior to moving the tables into object storage tablespace.
- serves as a preparatory step to test applications prior to moving to object storage.

Copy to Object Storage (New)

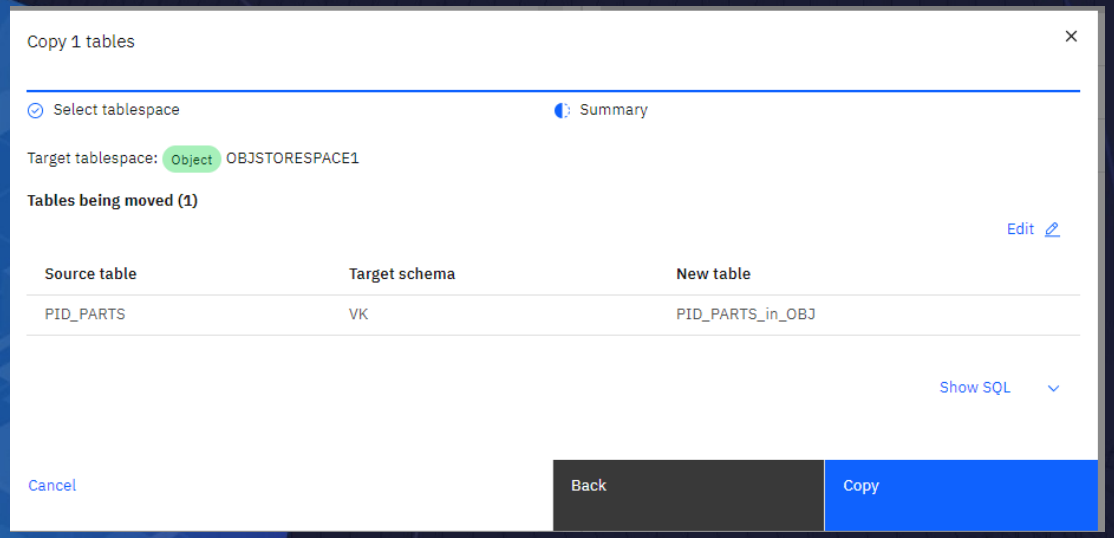


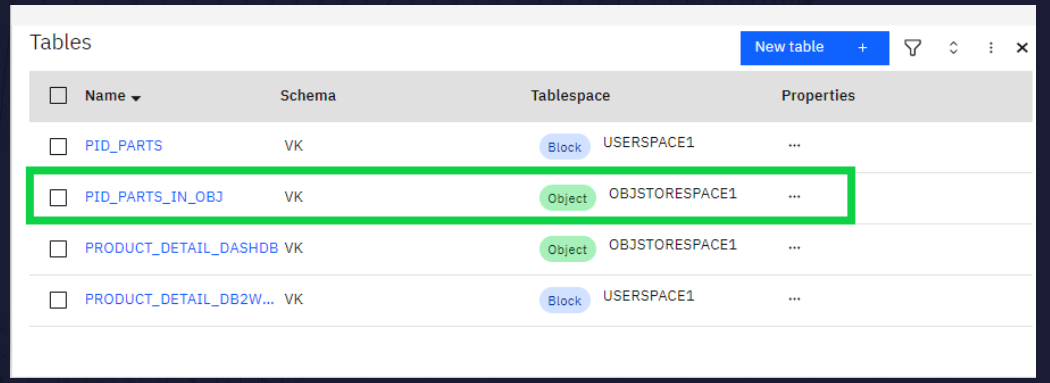
Copy to Object Storage (New)

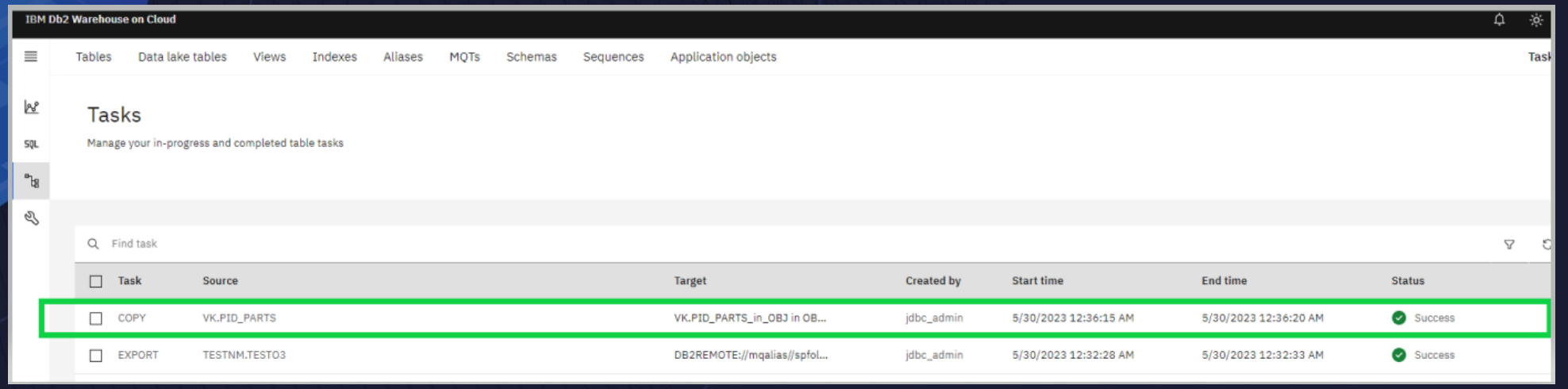
Note: Copying to another tablespace in block storage is also possible



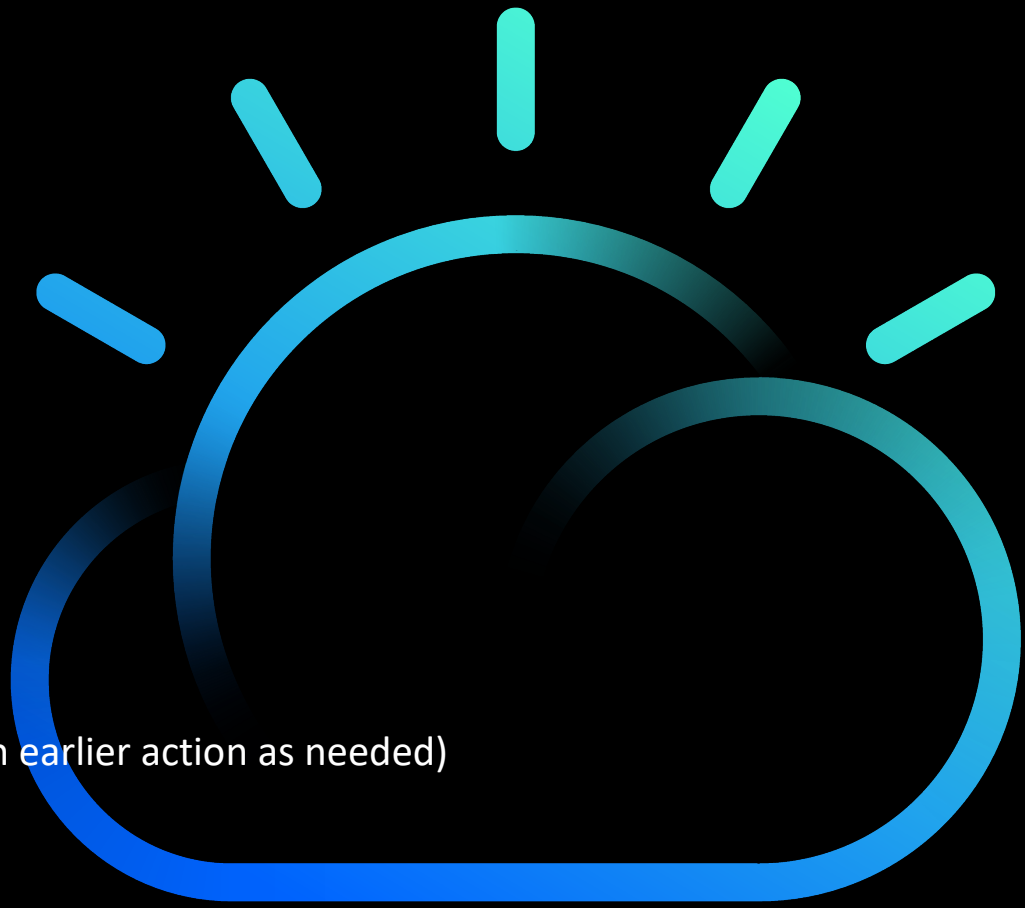
Copy to Object Storage (New)







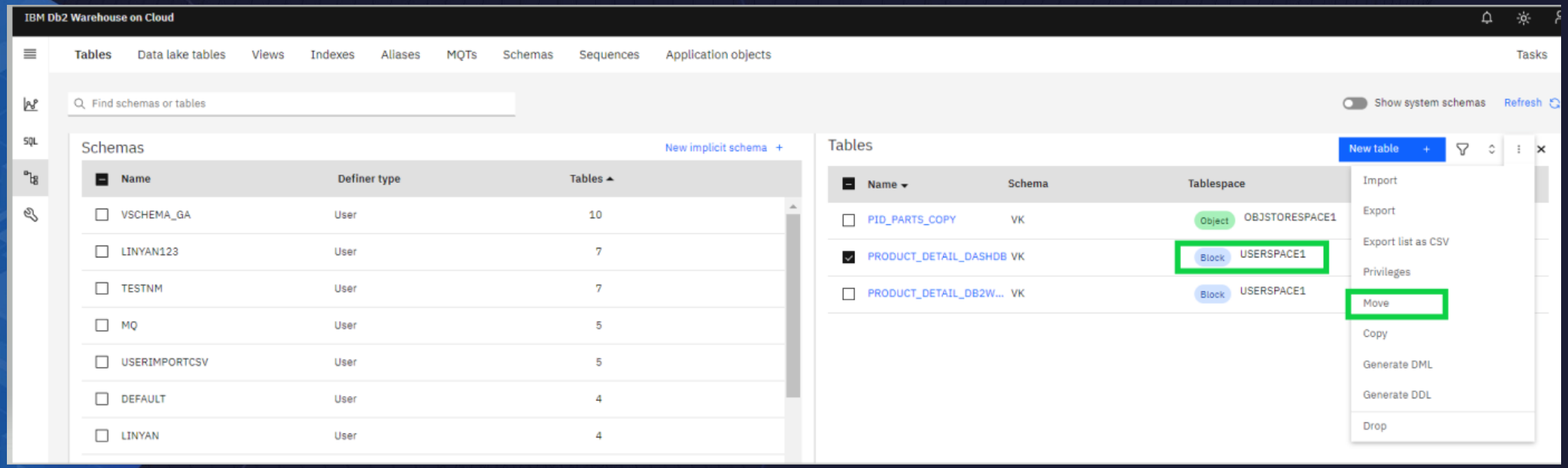
Move



Purpose:
- allows moving to object storage when the time is right (or to reverse an earlier action as needed)

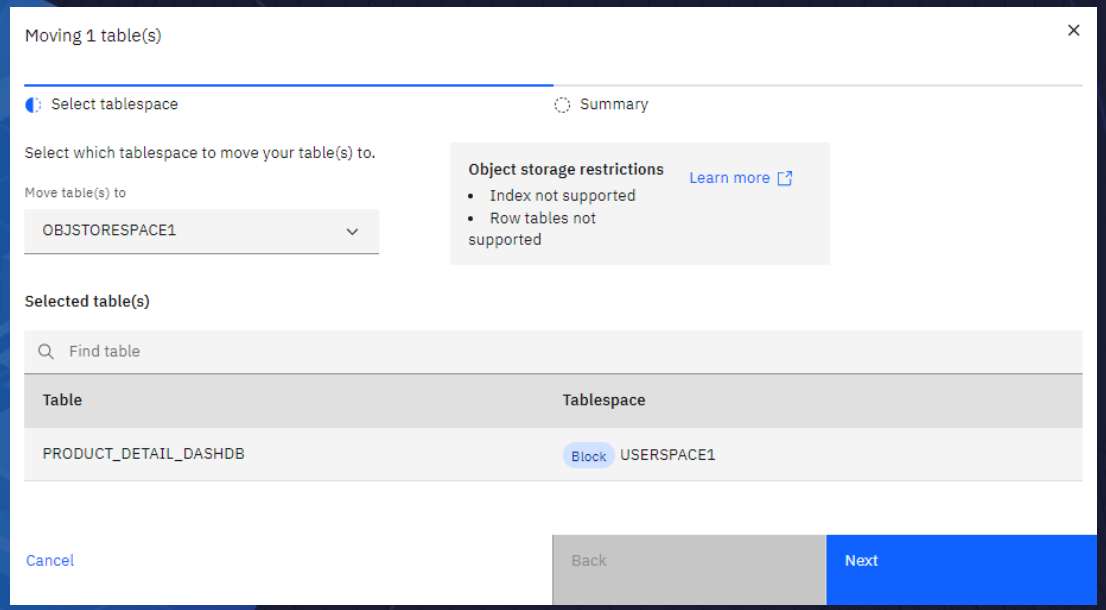
Note: possible to move to/from block/object storage.

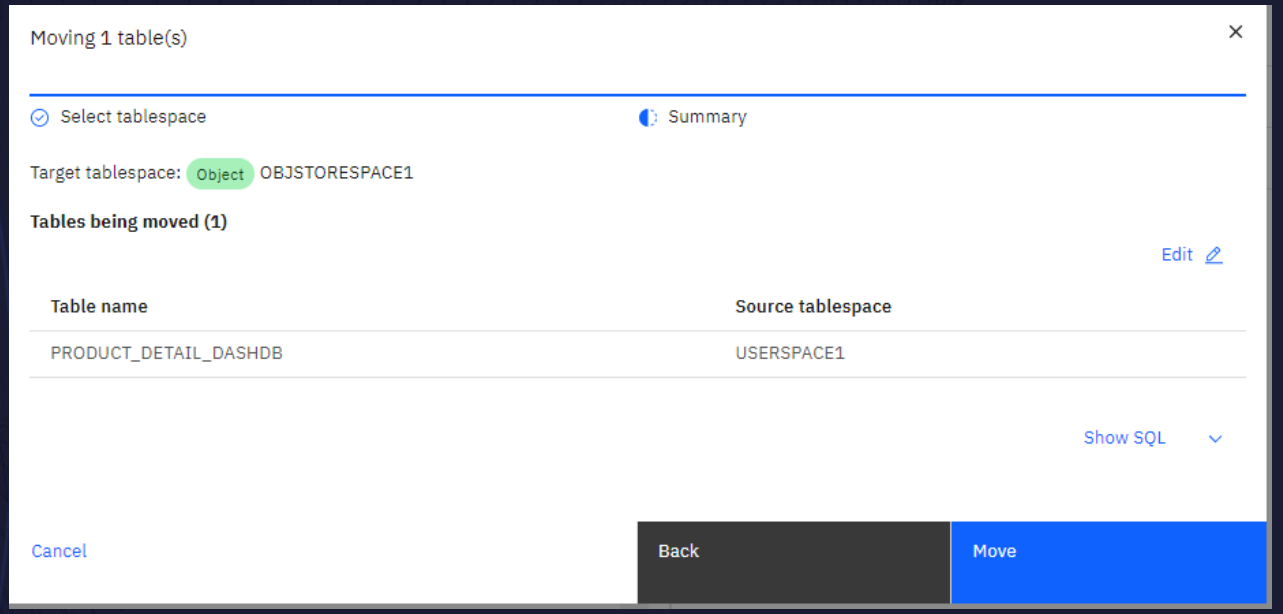
Move to Object Storage (New)



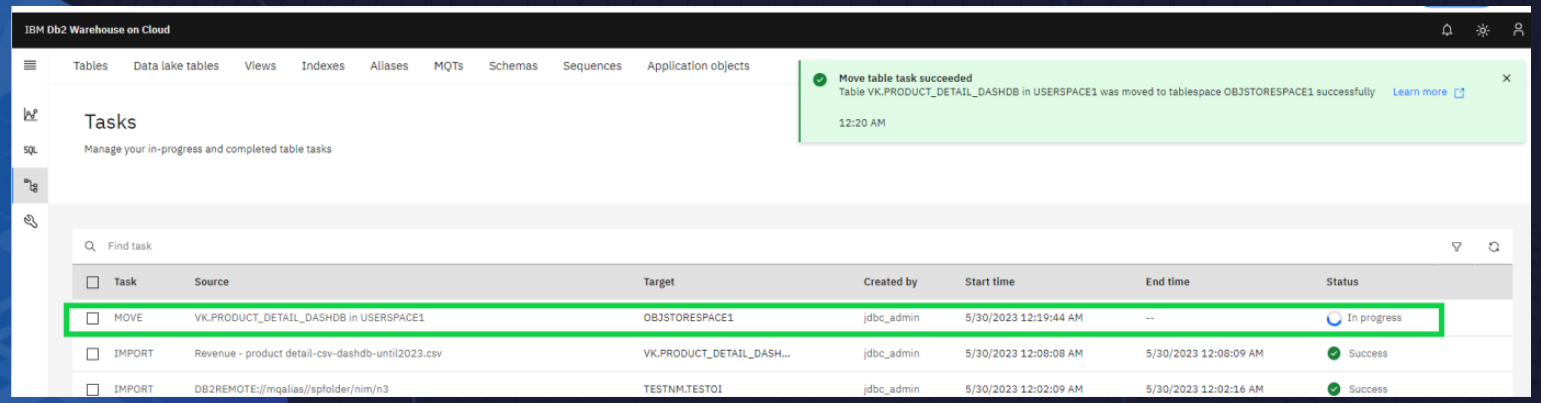
Move to Object Storage (New)

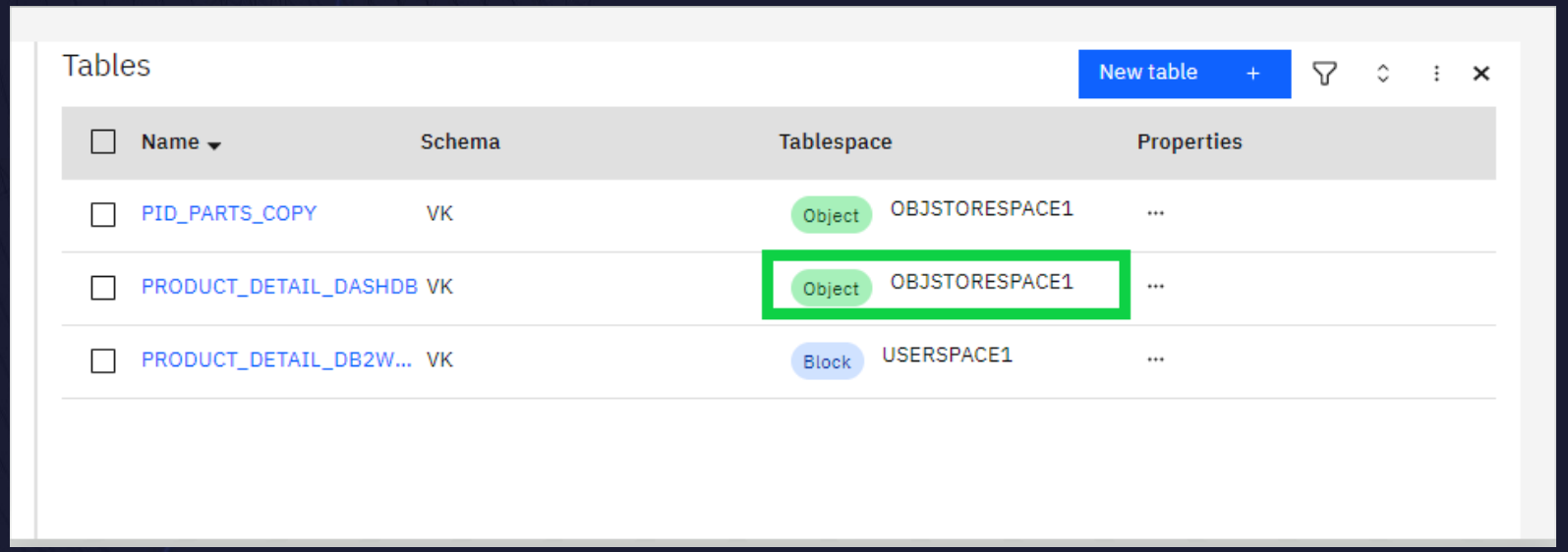
Note: Moving to another tablespace in block storage is also possible





Move to Object Storage (New)





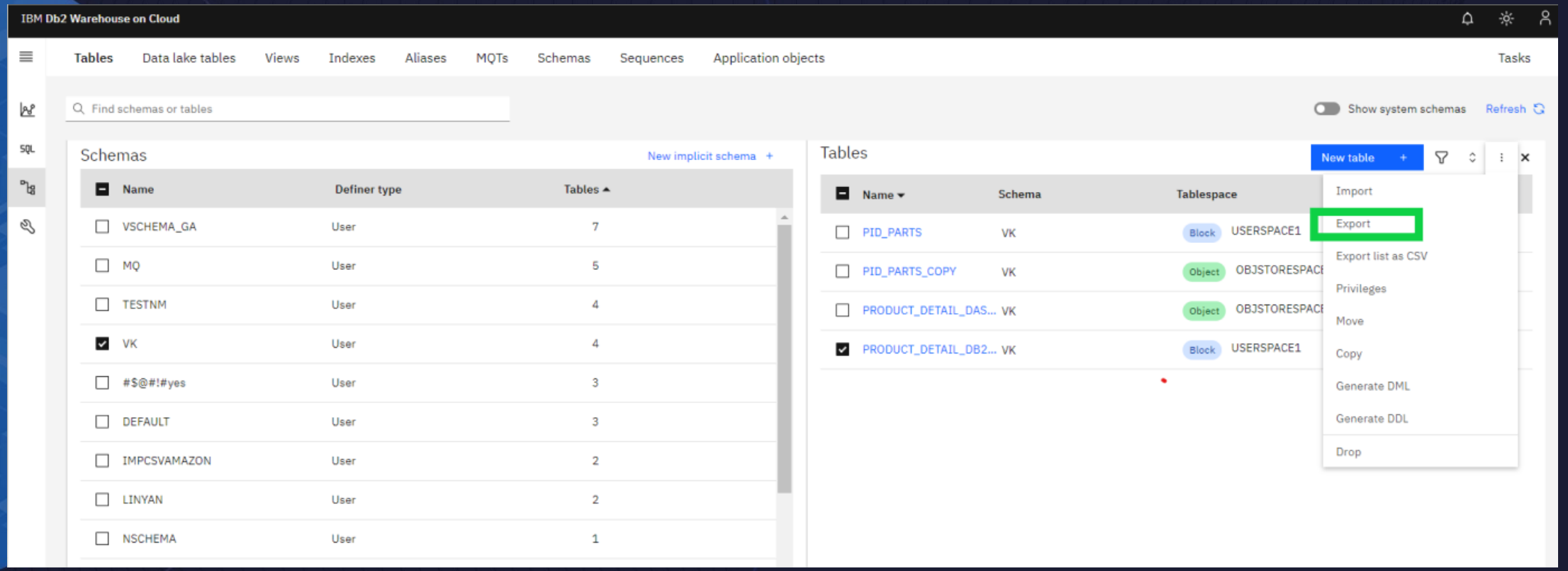
Export

Purpose:

- allows the content of Db2 table data to be converted into ODF and to be stored in object storage (amazon S3 or COS)

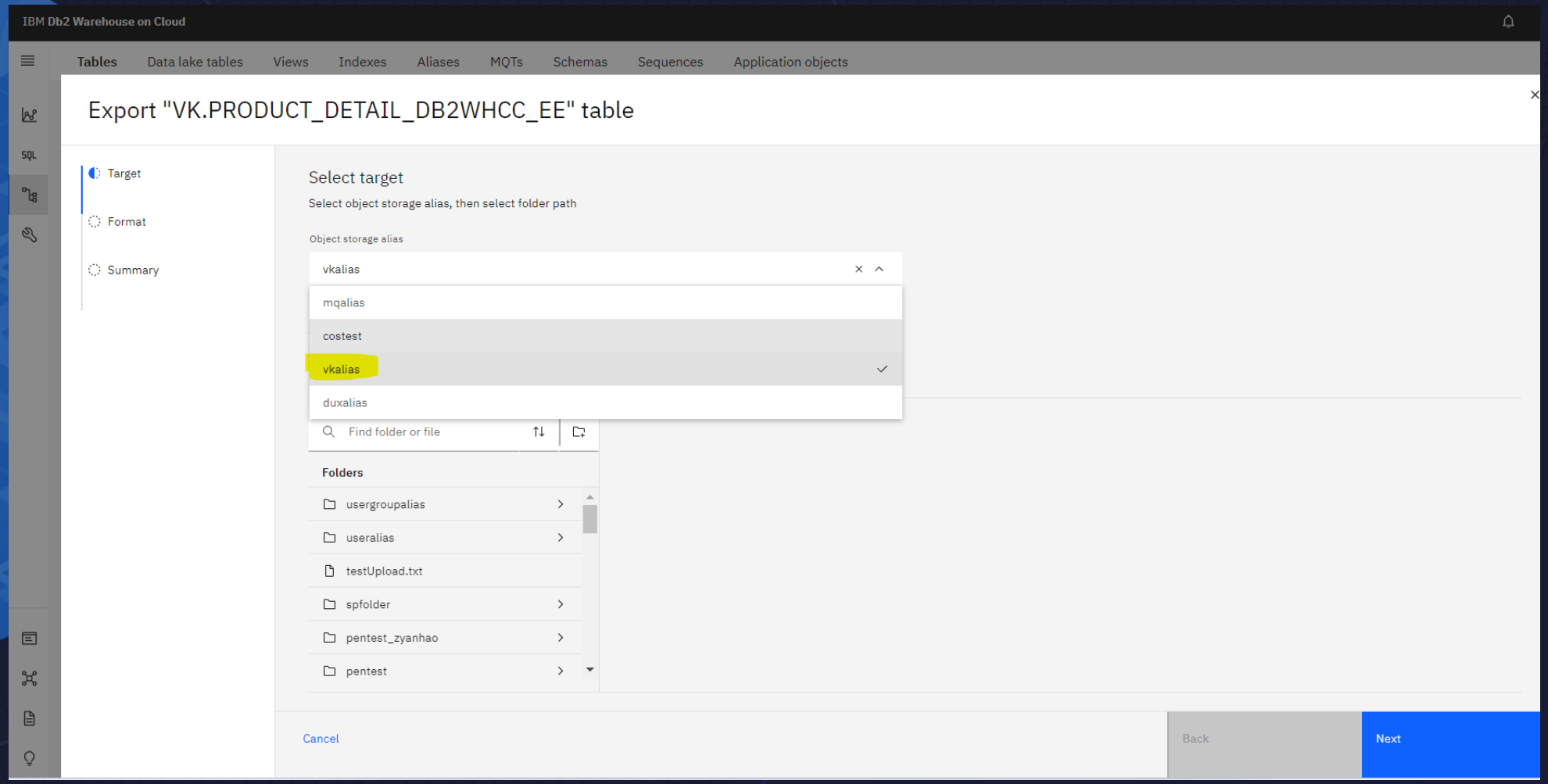
Export (New)

Let's export an existing table in block storage



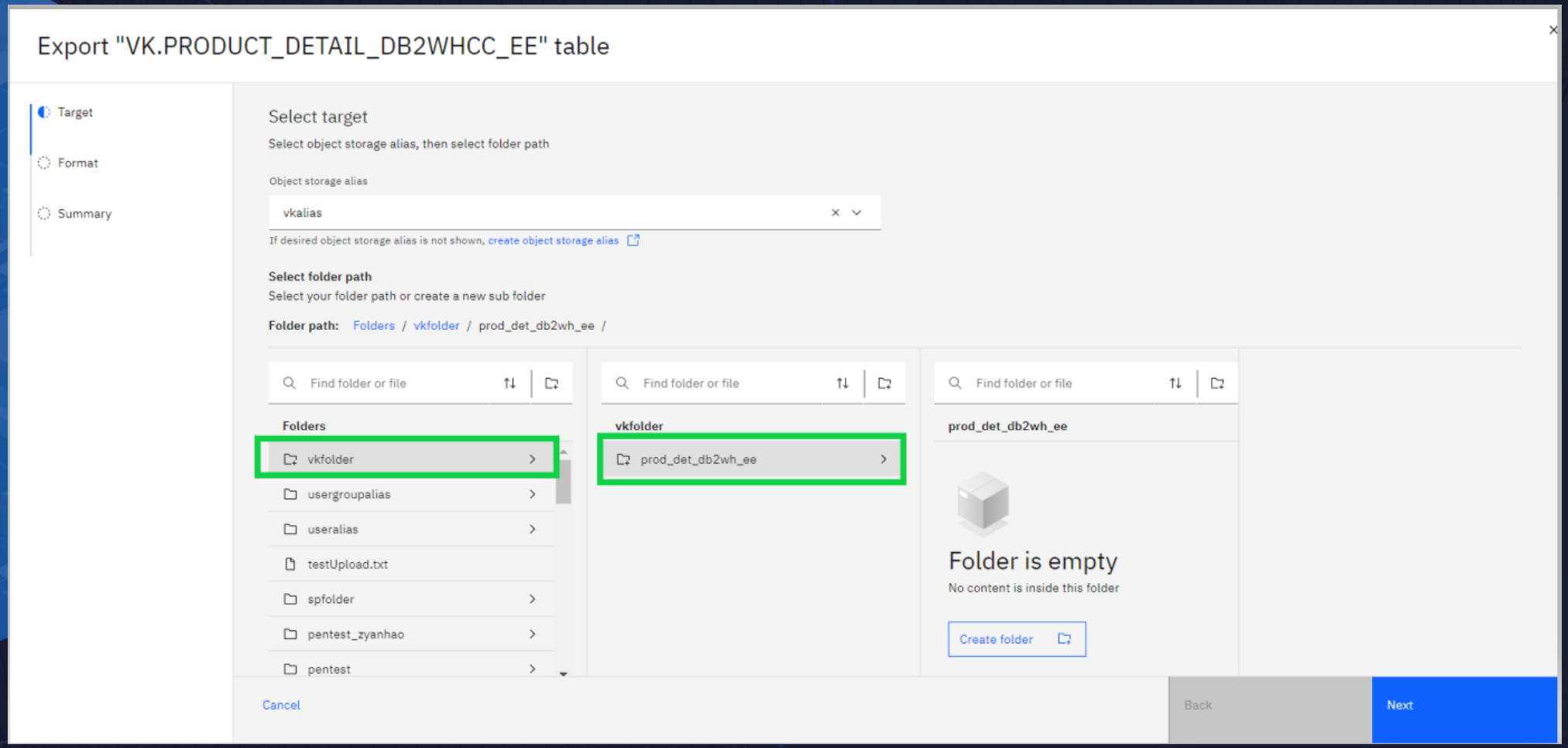
Export (New)

Choose an object storage alias that is already created



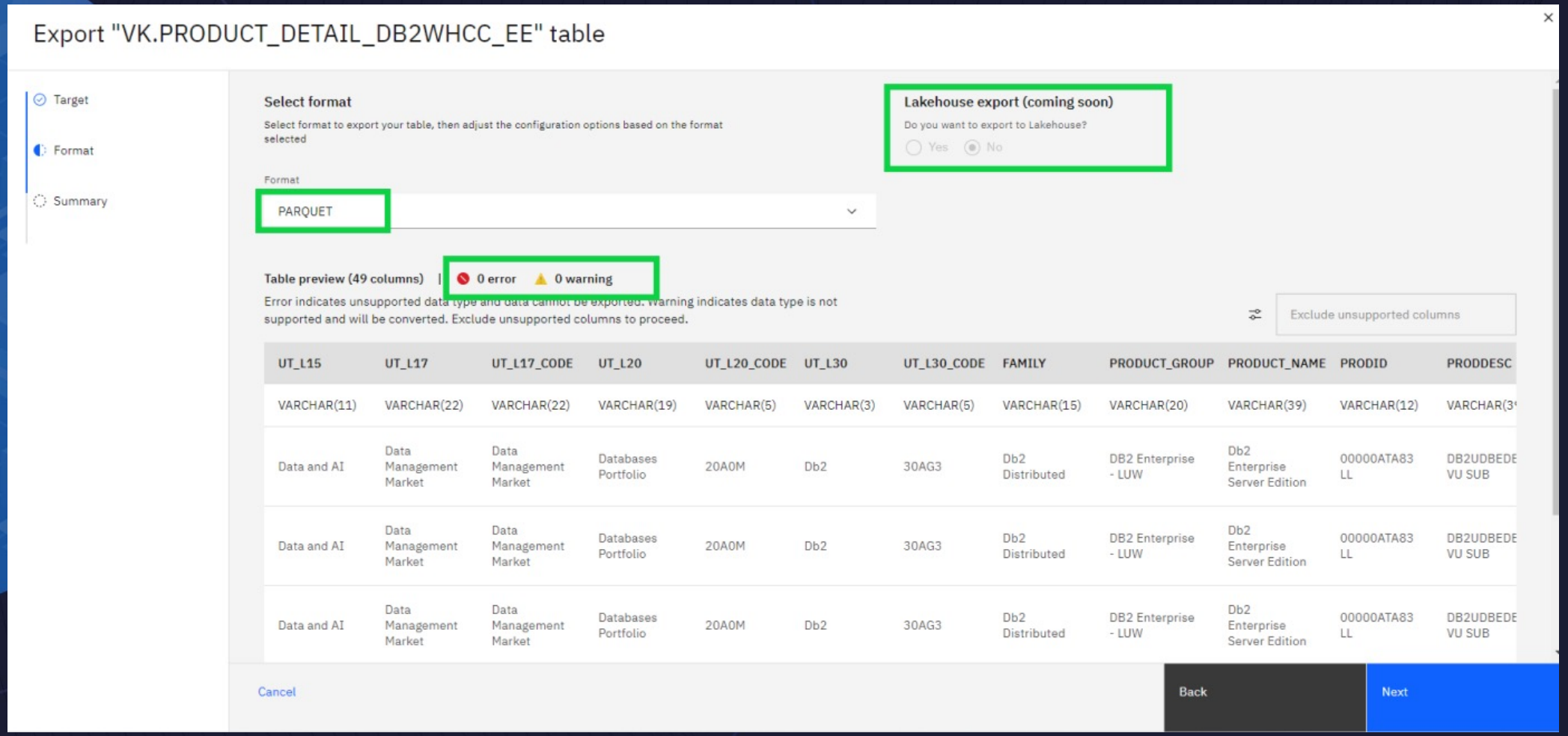
Export (New)

Choose/create target folder in object storage



Export (New)

Some datatypes are converted DECFLOAT, TIME..to VARCHAR/CHAR. And in case of errors, you must exclude unsupported columns. For example, BLOB/CLOB

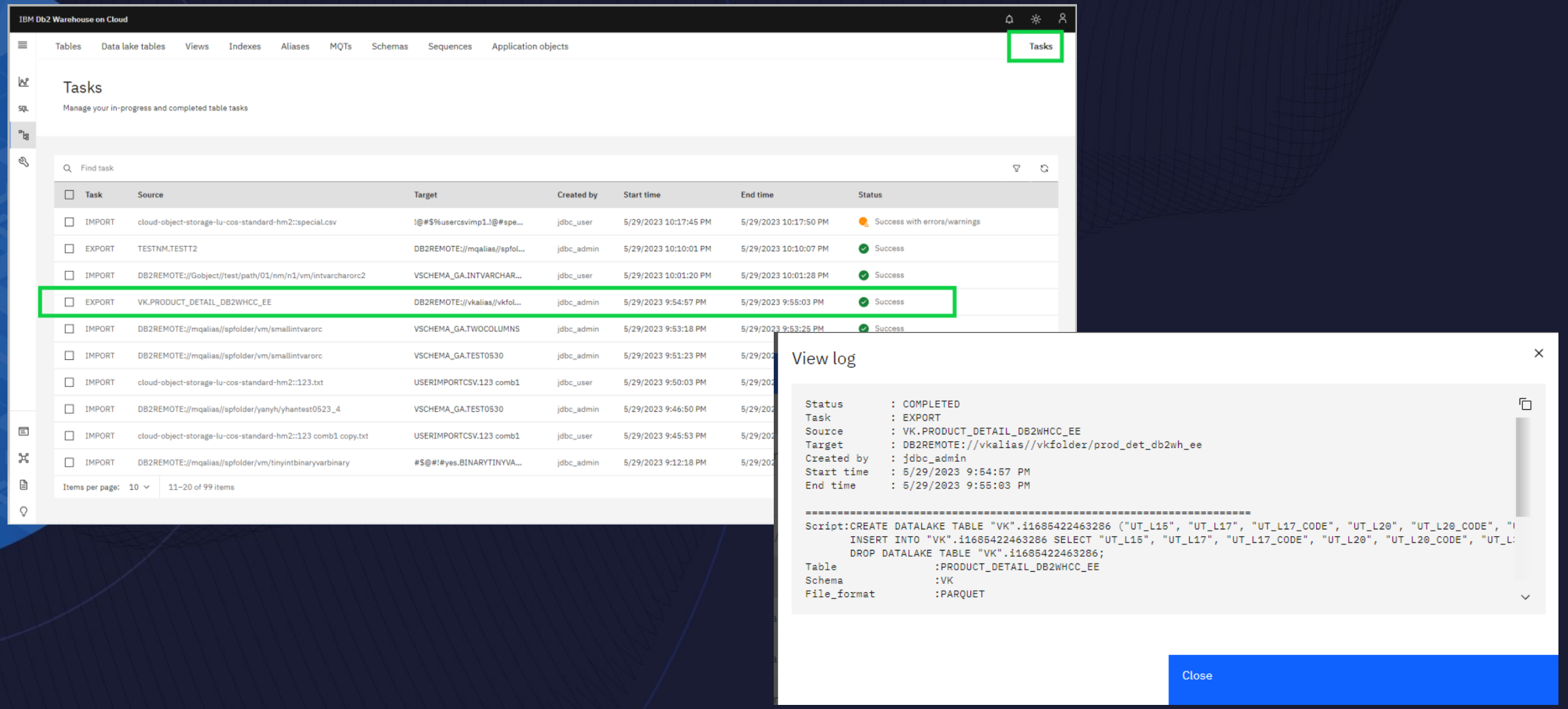


Export (New)

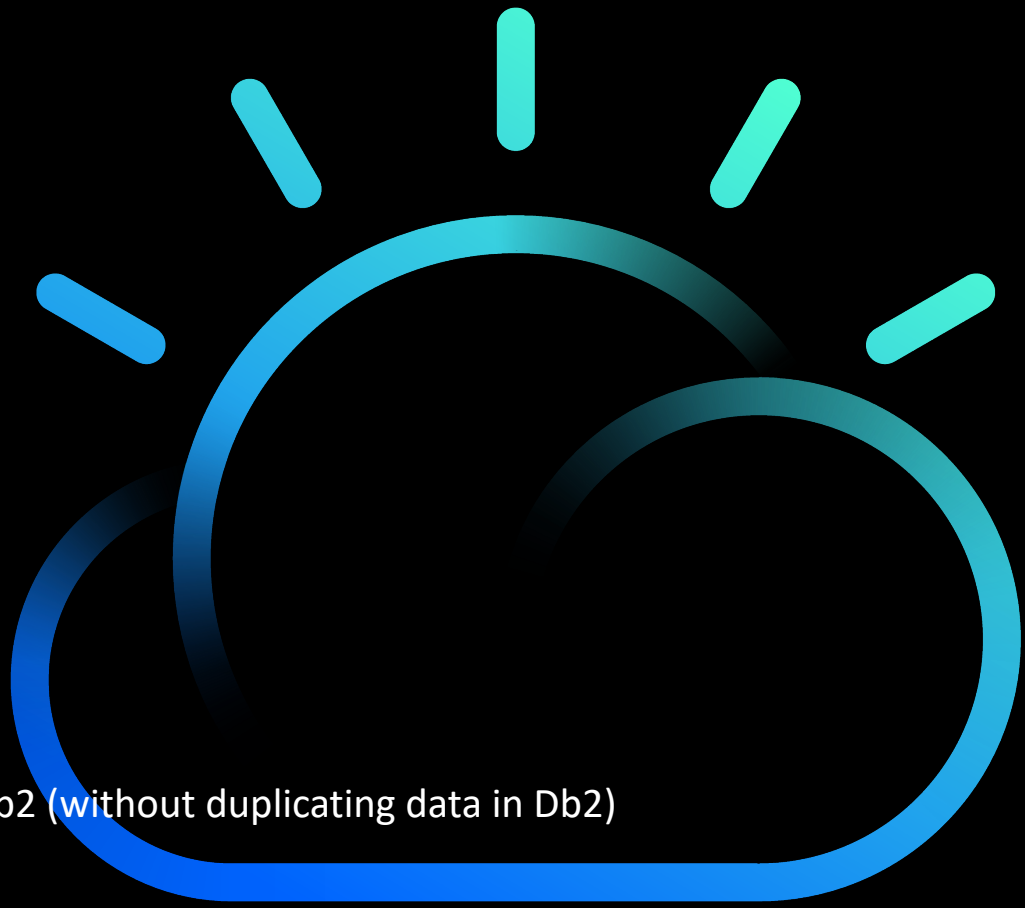
Once export is done, you should see a message on the top right corner.

Export (New)

You can always get to “Tasks” to check completion and further details

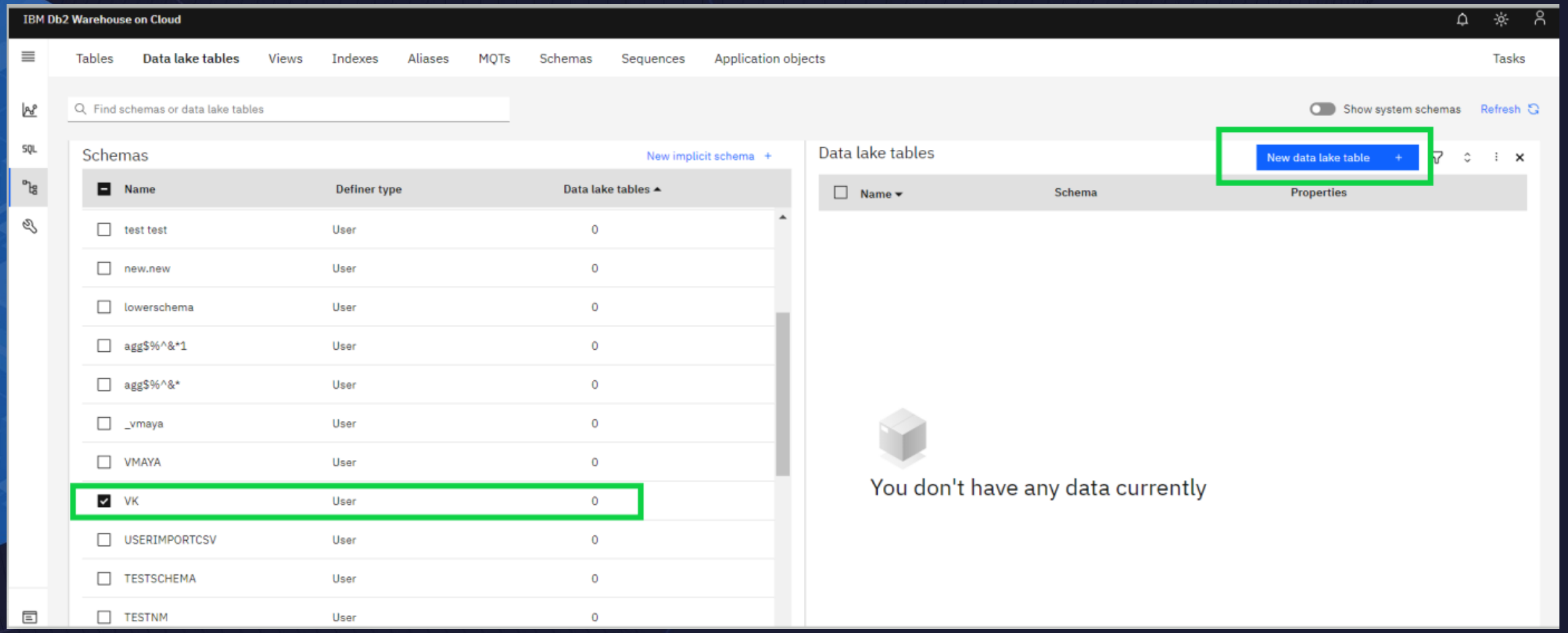


Create Data Lake Table

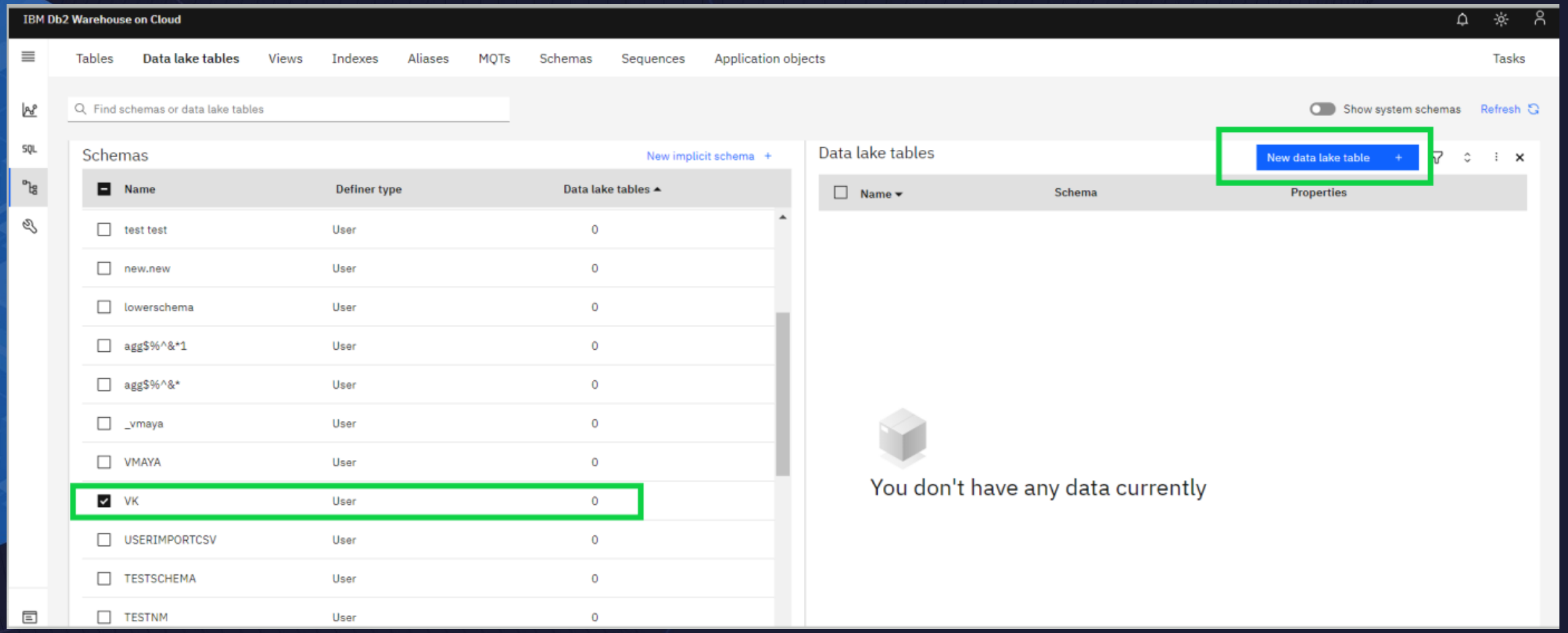


Purpose:
- for allowing data on object storage in ODF to be queried from within Db2 (without duplicating data in Db2)

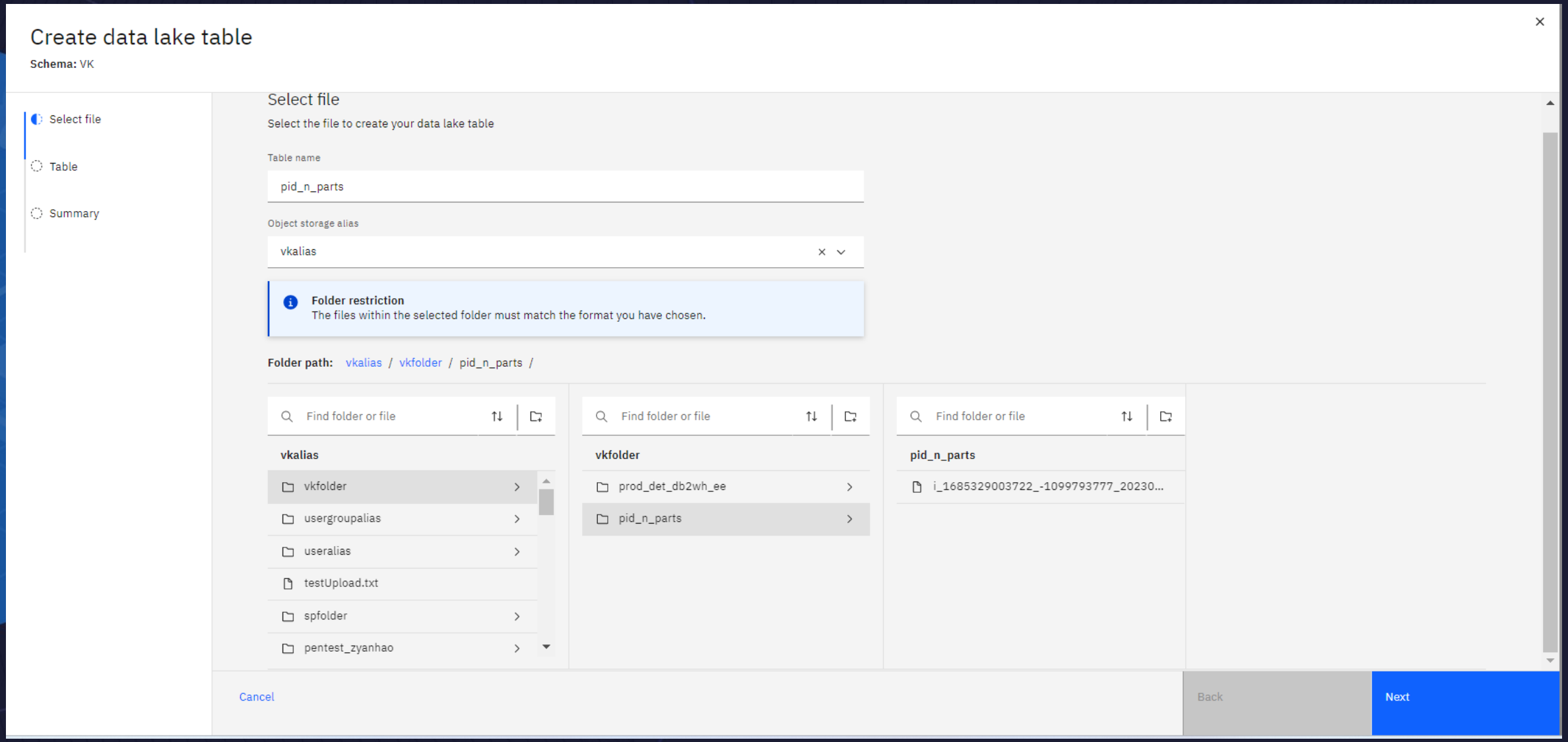
Create Data Lake Table (New)



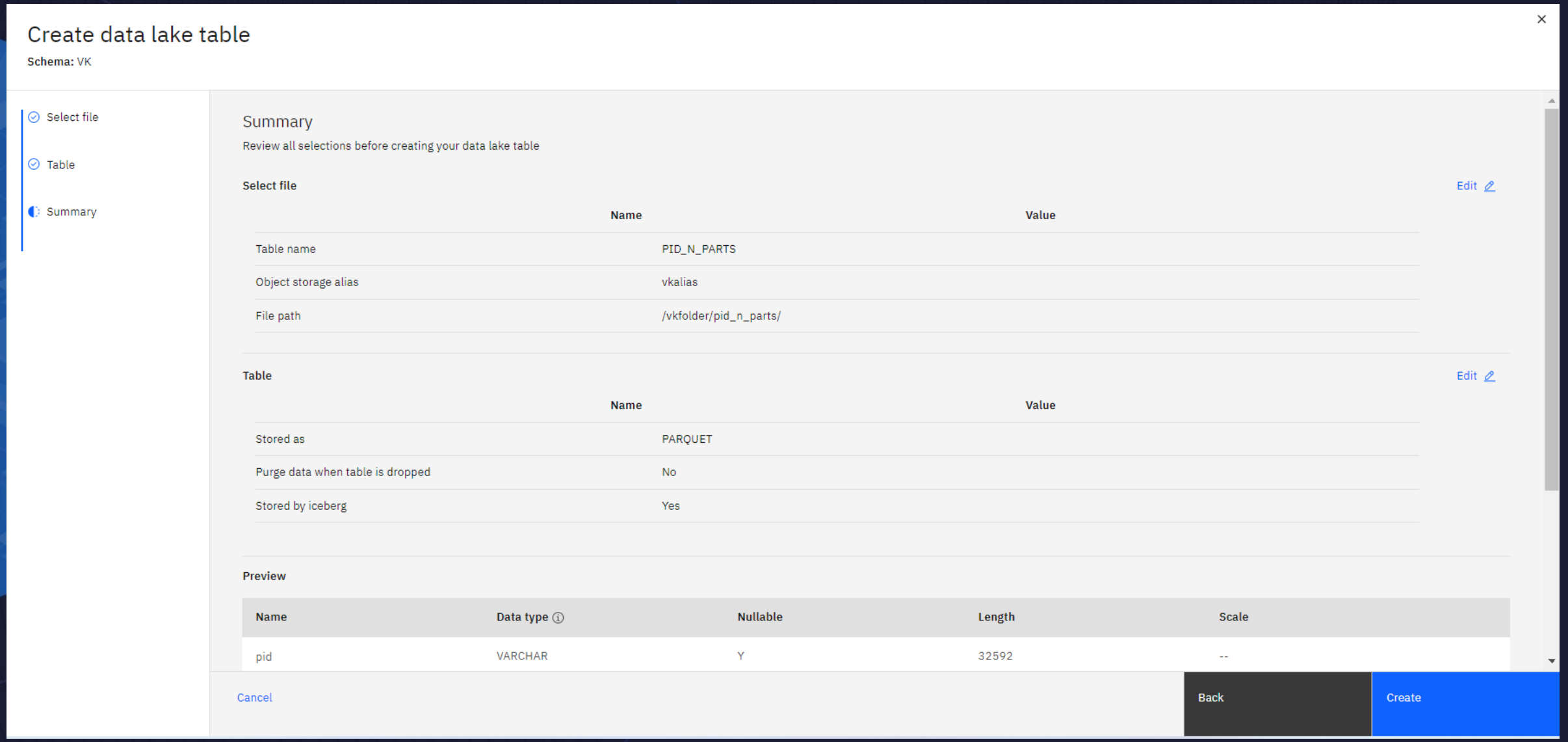
Create Data Lake Table (New)



Create Data Lake Table (New)



Create Data Lake Table (New)



Create Data Lake Table (New)

Create data lake table

Schema: VK

- Select file
- Table
- Summary

Summary

Review all selections before creating your data lake table

Select file Edit

Name	Value
Table name	DLT_PROD_DET_DB2WH_EE
Object storage alias	vkalias
File path	/vkfolder/prod_det_db2wh_ee/

Table Edit

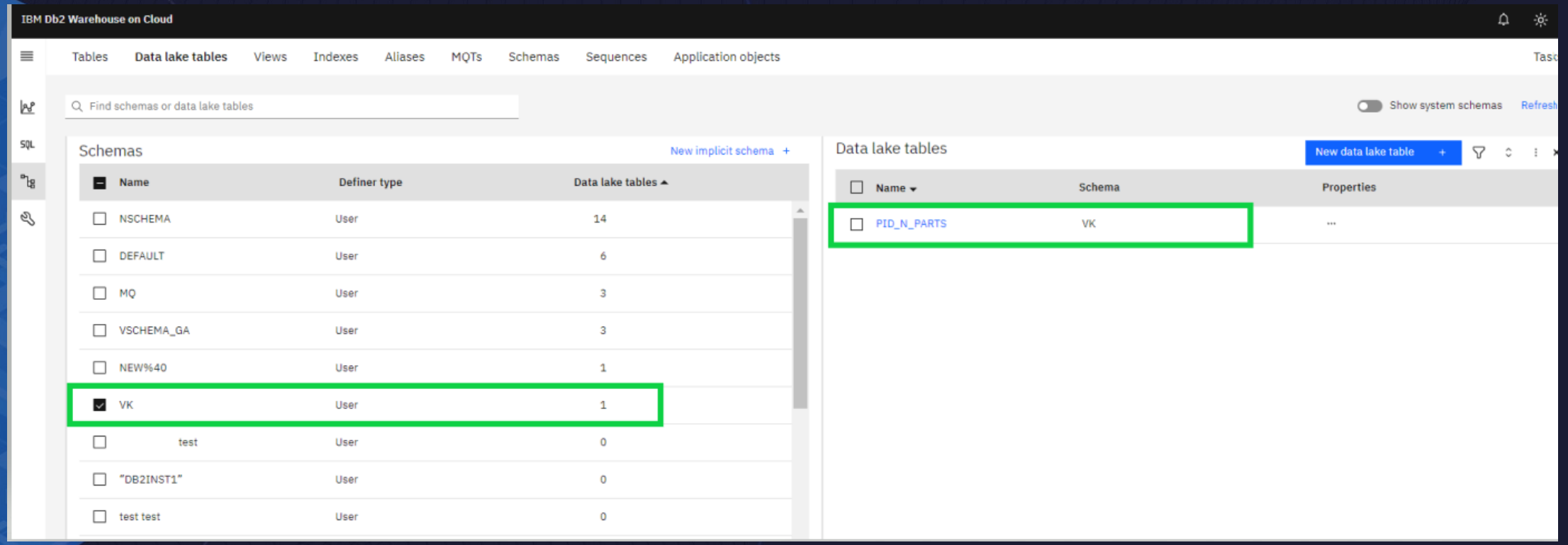
Name	Value
Stored as	PARQUET
Purge data when table is dropped	No
Stored by iceberg	Yes

Preview

Name	Data type	Nullable	Length	Scale
ut_l15	VARCHAR	Y	32592	--

Cancel | Back | Create

Create Data Lake Table (New)



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2024 NA Db2 Tech Conference

Console for every form factor of Db2

Vijaya Katikireddy

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LUWOPS1

Please fill out your session evaluation!

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