

Navigating to tables and databases in Hue using Data Catalog (Preview)

Date published: 2021-08-07

Date modified: 2021-08-07

Legal Notice

© Cloudera Inc. 2021. All rights reserved.

The documentation is and contains Cloudera proprietary information protected by copyright and other intellectual property rights. No license under copyright or any other intellectual property right is granted herein.

Copyright information for Cloudera software may be found within the documentation accompanying each component in a particular release.

Cloudera software includes software from various open source or other third party projects, and may be released under the Apache Software License 2.0 ("ASLv2"), the Affero General Public License version 3 (AGPLv3), or other license terms.

Other software included may be released under the terms of alternative open source licenses. Please review the license and notice files accompanying the software for additional licensing information.

Please visit the Cloudera software product page for more information on Cloudera software. For more information on Cloudera support services, please visit either the Support or Sales page. Feel free to contact us directly to discuss your specific needs.

Cloudera reserves the right to change any products at any time, and without notice. Cloudera assumes no responsibility nor liability arising from the use of products, except as expressly agreed to in writing by Cloudera.

Cloudera, Cloudera Altus, HUE, Impala, Cloudera Impala, and other Cloudera marks are registered or unregistered trademarks in the United States and other countries. All other trademarks are the property of their respective owners.

Disclaimer: EXCEPT AS EXPRESSLY PROVIDED IN A WRITTEN AGREEMENT WITH CLOUDERA, CLOUDERA DOES NOT MAKE NOR GIVE ANY REPRESENTATION, WARRANTY, NOR COVENANT OF ANY KIND, WHETHER EXPRESS OR IMPLIED, IN CONNECTION WITH CLOUDERA TECHNOLOGY OR RELATED SUPPORT PROVIDED IN CONNECTION THEREWITH. CLOUDERA DOES NOT WARRANT THAT CLOUDERA PRODUCTS NOR SOFTWARE WILL OPERATE UNINTERRUPTED NOR THAT IT WILL BE FREE FROM DEFECTS NOR ERRORS, THAT IT WILL PROTECT YOUR DATA FROM LOSS, CORRUPTION NOR UNAVAILABILITY, NOR THAT IT WILL MEET ALL OF CUSTOMER'S BUSINESS REQUIREMENTS. WITHOUT LIMITING THE FOREGOING, AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, CLOUDERA EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, QUALITY, NON-INFRINGEMENT, TITLE, AND FITNESS FOR A PARTICULAR PURPOSE AND ANY REPRESENTATION, WARRANTY, OR COVENANT BASED ON COURSE OF DEALING OR USAGE IN TRADE.

This document has been released as part of a technical preview for features described herein. Technical preview components are provided as a convenience to our customers for their evaluation and trial usage. These components are provided 'as is' without warranty or support. Further, Cloudera assumes no liability for the usage of technical preview components, which should be used by customers at their own risk.

Contents

Legal Notice	2
Contents	3
Navigating to tables and databases in Hue using Data Catalog	4
Prerequisites for accessing Hue tables and databases from Data Catalog UI	4
Accessing Hue tables and databases from the Data Catalog UI	5
Accessing Hue tables and databases from the Data Catalog Search page	5
Accessing Hue tables and databases from the Asset Details page	7
Accessing Hue assets	9

This document has been released as part of a technical preview for features described herein. Technical preview components are provided as a convenience to our customers for their evaluation and trial usage. These components are provided 'as is' without warranty or support. Further, Cloudera assumes no liability for the usage of technical preview components, which should be used by customers at their own risk.

Navigating to tables and databases in Hue using Data Catalog

Data Catalog helps you to explore assets within your Data Lake. Hue allows you to run analytics on Hive assets. The integration between Data Catalog and Cloudera Data Warehouse (CDW) service provides a direct web link to the Hue instance from the Data Catalog web UI, making it easy to navigate across services.

Note: This feature is under entitlement. Contact your Cloudera account representative to activate this feature in your CDP environment.

Prerequisites for accessing Hue tables and databases from Data Catalog UI

Hue is a part of the CDW service. Before you can access Hue from Data Catalog, you must set up the CDW service.

Note: You must have the **DWAdmin** role to perform these tasks.

1. **An AWS or Azure environment in CDW that has been activated and registered in the CDP Management Console.**

Activating an AWS or Azure environment in CDW enables the CDW service to use the existing Data Lakes that are present in the CDP environment. This also creates a default Database Catalog that is used by a Virtual Warehouse.

For more information, see [Activating AWS environments](#) or [Activating Azure environments](#).

Currently, CDW only supports AWS and Azure Cloud environments.

2. **A Hive or an Impala Virtual Warehouse created using CDW.**
Depending on your data set type, create a Hive or an Impala Virtual Warehouse using CDW.

For more information, see [Adding a new Virtual Warehouse](#).

This document has been released as part of a technical preview for features described herein. Technical preview components are provided as a convenience to our customers for their evaluation and trial usage. These components are provided 'as is' without warranty or support. Further, Cloudera assumes no liability for the usage of technical preview components, which should be used by customers at their own risk.

3. **Select the asset type in the Data Catalog.**

The asset type must be either **hive_table** or **hive_db**.

After these conditions are met, Hue links for the selected assets are displayed in the Data Catalog UI.

Accessing Hue tables and databases from the Data Catalog UI

When you log into Data Catalog, you can access web links to the Hue instances from the Data Catalog Search page or the Asset Details page.

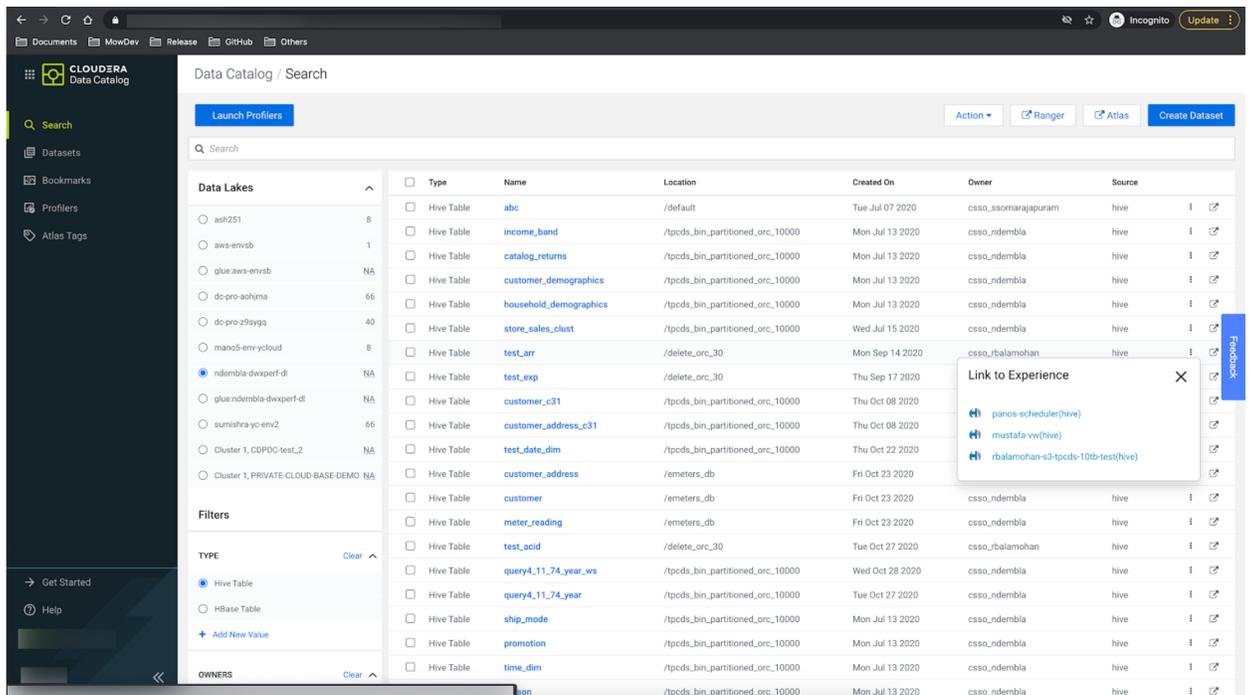
You can access the Hue tables and databases by using one of the following options in Data Catalog:

- When you navigate to the entity search page, you can click on the  icon present at the end of the row which opens the **Link to Experiences** dialog.
- Directly on the selected asset's Asset Details page, you can click **Link to Experiences**.

Accessing Hue tables and databases from the Data Catalog Search page

1. Log into Cloudera Data Catalog.
2. Select the Data Lake associated with your environment.
3. Select the asset type under **Filters**, for example Hive Table.
Hive tables present within the Data Lake are displayed.
4. Click the  icon at the end of the row for a table that you want to display in Hue:

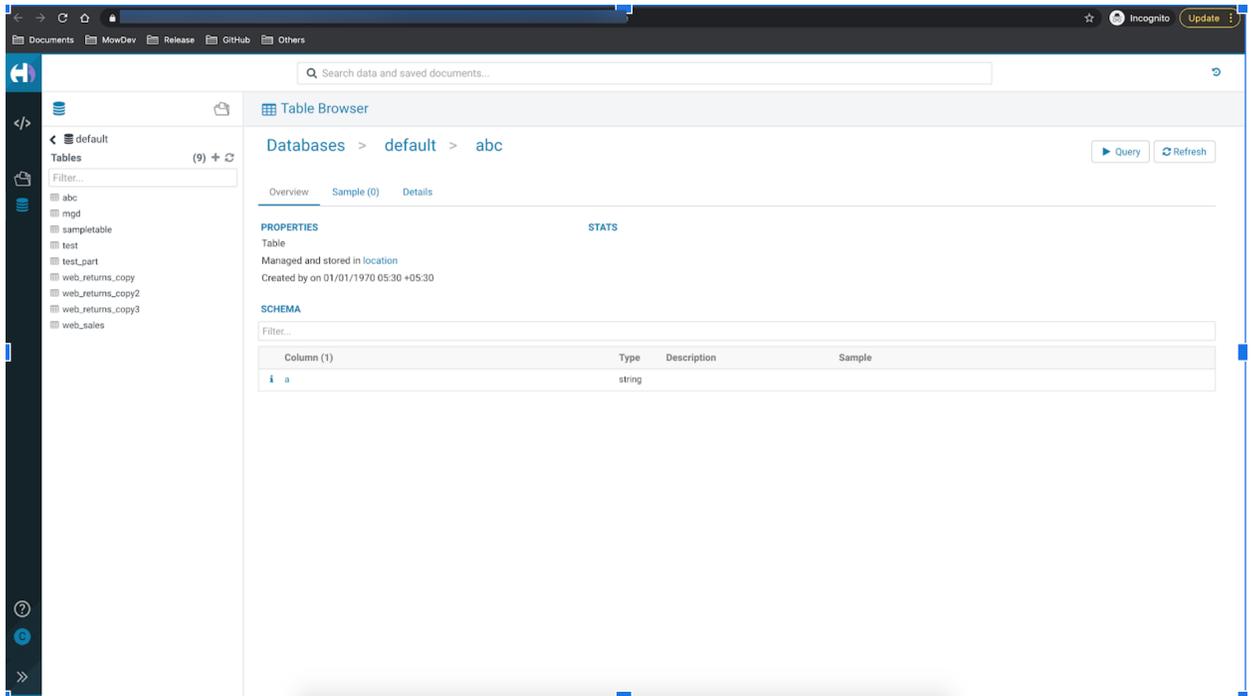
CLUDERA TECHNICAL PREVIEW DOCUMENTATION



A **Link to Experiences** pop-up appears. It contains a list of Hue instances within the Virtual Warehouses that are associated with this particular table.

5. Click the link to open Hue web interface.
The Hive table is displayed on the Hue **Table Browser**.

This document has been released as part of a technical preview for features described herein. Technical preview components are provided as a convenience to our customers for their evaluation and trial usage. These components are provided 'as is' without warranty or support. Further, Cloudera assumes no liability for the usage of technical preview components, which should be used by customers at their own risk.

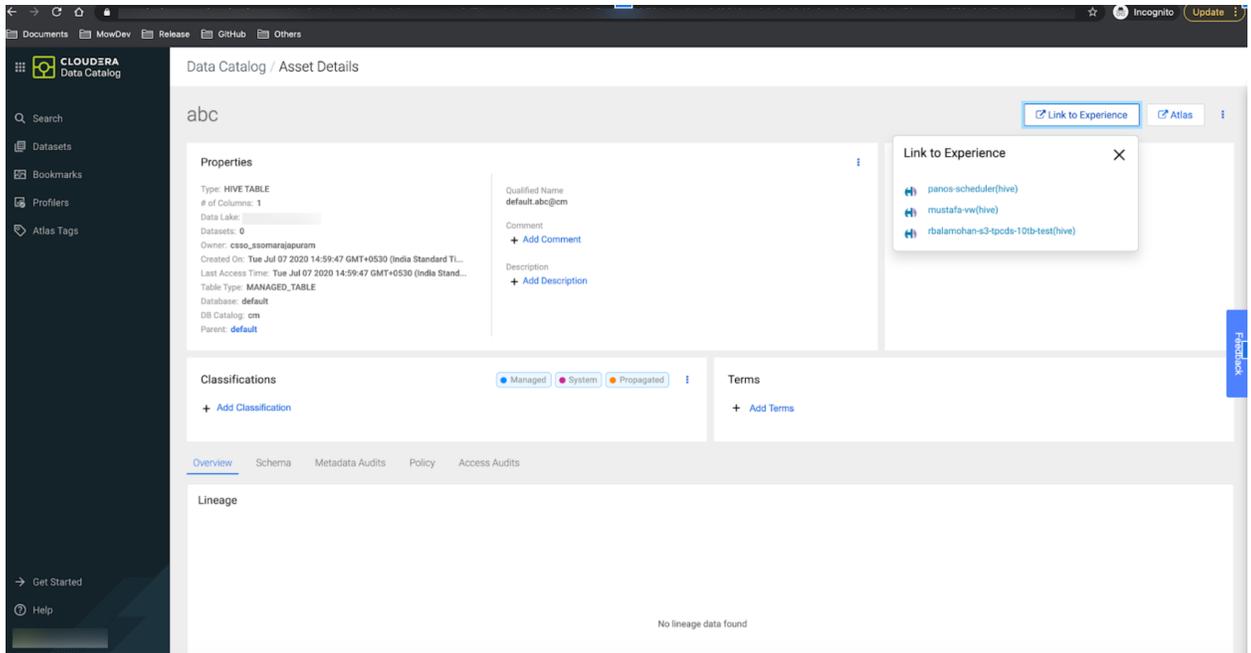


Accessing Hue tables and databases from the Asset Details page

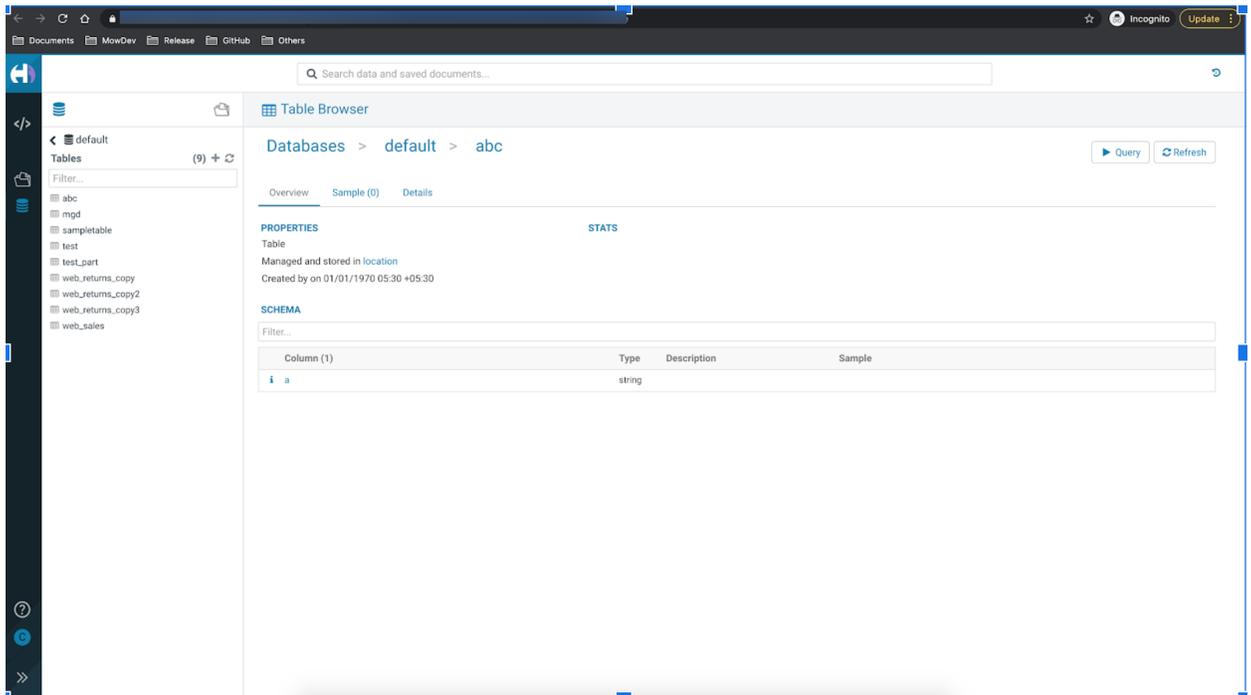
1. Log into Cloudera Data Catalog.
2. Select the Data Lake associated with your environment.
3. Select the asset type under **Filters**, for example **Hive Table**.
All the Hive tables present within the Data Lake are displayed.
4. Click on the asset name to open the **Asset Details** page.
The **Asset Details** page contains the **Link to Experiences** button as shown in the following image:

This document has been released as part of a technical preview for features described herein. Technical preview components are provided as a convenience to our customers for their evaluation and trial usage. These components are provided 'as is' without warranty or support. Further, Cloudera assumes no liability for the usage of technical preview components, which should be used by customers at their own risk.

CLUDERA TECHNICAL PREVIEW DOCUMENTATION



5. Click **Link to Experiences**.
The pop-up contains a list of Hue instances within the Virtual Warehouses that are associated with this particular table.
6. Click the link to open Hue web interface.
The Hive table is displayed on the Hue **Table Browser**.



This document has been released as part of a technical preview for features described herein. Technical preview components are provided as a convenience to our customers for their evaluation and trial usage. These components are provided 'as is' without warranty or support. Further, Cloudera assumes no liability for the usage of technical preview components, which should be used by customers at their own risk.

Accessing Hue assets

Currently, you cannot access Hue assets directly from Data Catalog as this feature is under entitlement.

Note: When you are on the Data Catalog search page or the **Asset Details** page, an external link button appears if all the three conditions for viewing links to Hue are satisfied as detailed under [Prerequisites for accessing Hue tables and databases from Data Catalog UI](#).

1. You must enable the feature for the required tenant, for example, dev tenant:

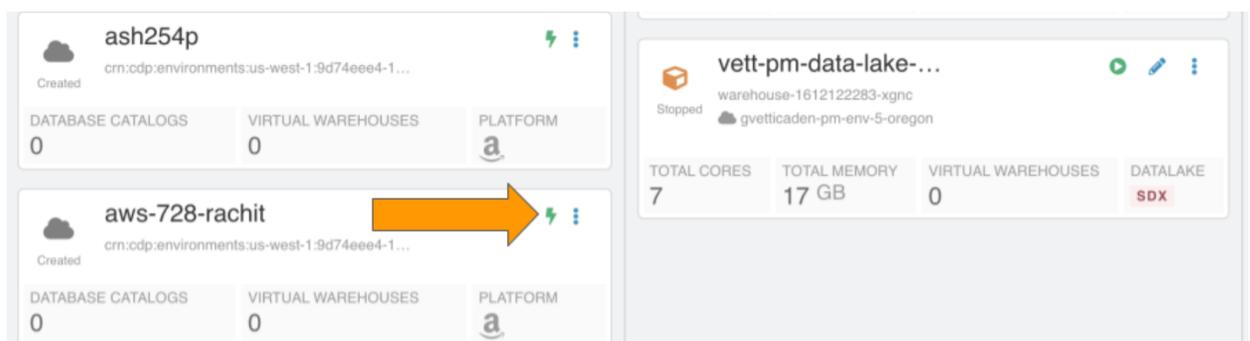
```
CDP_PROFILE=admin_dev cdpenv/bin/cdp coreadmin grant-entitlement
--entitlement-name DATA_CATALOG_ENABLE_NAVIGATION_TO_EXPERIENCE --account-id
9d74eee4-1cad-45d7-b645-7ccf9edbb73d
```

This will grant the entitlement for the dev tenant.

2. Enable access to AWS or Azure environments for Hue.
3. Activate CDW for AWS.

To activate CDW on your selected environment, follow these steps:

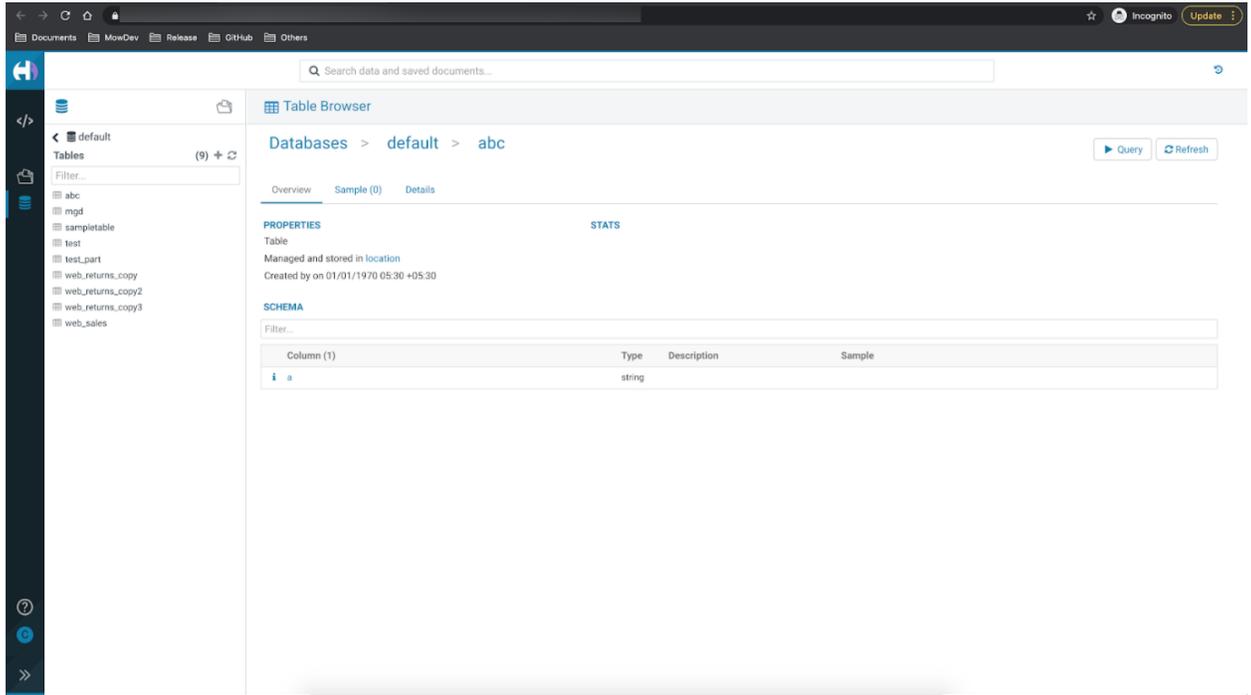
- Under **Management Console** > select **Data Warehouse**.
- On the **Overview** page, click on the left pane property displaying **Environments**. AWS/Azure environments are listed.
- Locate the enabled AWS / Azure environment and activate CDW by clicking on the bolt icon. This action also creates a default **Database Catalogs**.



This document has been released as part of a technical preview for features described herein. Technical preview components are provided as a convenience to our customers for their evaluation and trial usage. These components are provided 'as is' without warranty or support. Further, Cloudera assumes no liability for the usage of technical preview components, which should be used by customers at their own risk.

- Once the environment is activated and a DB Catalog is created and running, you can create a Virtual Warehouse as per the requirement.

For more information about AWS and Azure Environment, see [AWS environments overview](#) and [Azure environments overview](#).



You will now be able to navigate to the Hue assets on these virtual warehouses using the links provided by Data Catalog.

This document has been released as part of a technical preview for features described herein. Technical preview components are provided as a convenience to our customers for their evaluation and trial usage. These components are provided 'as is' without warranty or support. Further, Cloudera assumes no liability for the usage of technical preview components, which should be used by customers at their own risk.