

Search

Date published: 2023-12-16

Date modified: 2025-11-10

CLOUDERA

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Search filters

Use filters to refine the overview of all your available assets.



Note: You must have access to at least one data lake to search and filter your results. By default, a data lake is already selected for you if you have access to it.

You can use the following filters:

Owner

From all the owner names that appear, you can select the owner to further refine the results and display those search results with the selected owner.

Type

Select an entity type to view all the assets stored in that type of database.

Additional Type filters can be added by clicking + Add New Value.



Note: For information purposes, the Database filter is displayed as Namespace in case of HBase tables.

By default, only the following options are visible:

- Hive Table
- HBase Table

Entity Tag

Use entity tags to refine your search results. You can add business metadata as entity tags in Atlas as classifications, or in the **Atlas Tags** menu. Use these tags to refine your search results and view the details of the required data asset.

Additional entity tags can be added by clicking + Add New Value.

Column Tag

You can search for the following type of table assets by tags that have been applied on their children entities, that is, columns or column families using the column tags filter:

- Hive
- HBase

Created Within

You can choose to refine your search results of assets within the data lake to view the data assets created within the last 7 days, 15 days, or 30 days. You can also add custom values such as 5 days or 10 days to view specific information.

Created Before

Depending on the time when the assets were created, you can choose to refine the search results and view data assets created before 1 day, 7 days, or 15 days. You can add custom values to view data assets created before the days of your preference such as 8 days or 12 days.



Note: The Created Within and Created Before filters are only visible when Atlas provides the created time for the assets.

Glossary

You can filter assets based on business glossary terms. You can search for any asset without any entity type restrictions.



Note: This filter appears only if Atlas has terms set up.

Click Cancel for any filter to clear the selection or Clear All to reset all your filters.

Searching for assets using Atlas glossaries

Use Apache Atlas glossaries to define a common set of search terms that data users across your organization use to describe their data.

Data can describe a wide variety of content: lists of names or text or columns full of numbers. You can use algorithms to describe data as having a specific pattern, of being within a range or having wide variation, but what's missing from these descriptions is what does the data mean in a given business context and what is it used for? Is this column of integers the count of pallets that entered a warehouse on a given day or number of visitors for each room in a conference center?

The glossary is a way to organize the context information that your business uses to make sense of your data beyond what can be figured out just by looking at the content. The glossary holds the terms you've agreed upon across your organization so business users can use familiar terms to find what they are looking for.

Glossaries enable you to define a hierarchical set of business terms that represents your business domain.

Glossary terms can be thought of as of a flat (but searchable) list of business terms organized by glossaries. Unlike classifications, terms are not propagated through lineage relationships: the context of the term is what's important, so propagation may or may not make sense.

You can search for the datasets using the Glossary Terms filter available on the **Search** page.

CLUDERA

Data Catalog

Dashboard

Search

Datasets

Bookmarks

Profilers

Atlas Tags

Help

Search

Search

Data Lakes

829

Filters

TYPE

Hive Table

HBase Table

HDFS Path

+ Add New Value

Clear

OWNERS

atlas

csso_rasharma

hive

public

Clear

ENTITY TAG

+ Add New Value

Clear

GLOSSARY TERMS

Using terms in Cloudera Data Catalog

You can use the Asset Details page to add or modify Apache Atlas glossary terms for your selected assets. You can search these glossary terms by using the search filters.

Use Atlas to define rich glossary vocabularies using the natural terminology (technical terms and/or business terms) of your industry. You can also create semantic relationships between your terms. Then, in Cloudera Data Catalog, use the **Terms** widget in the **Asset Details** page to map assets to glossary terms.

You can use terms in Cloudera Data Catalog to search for entities, filter them by glossary term(s), and also search for entities associated with them in Atlas.

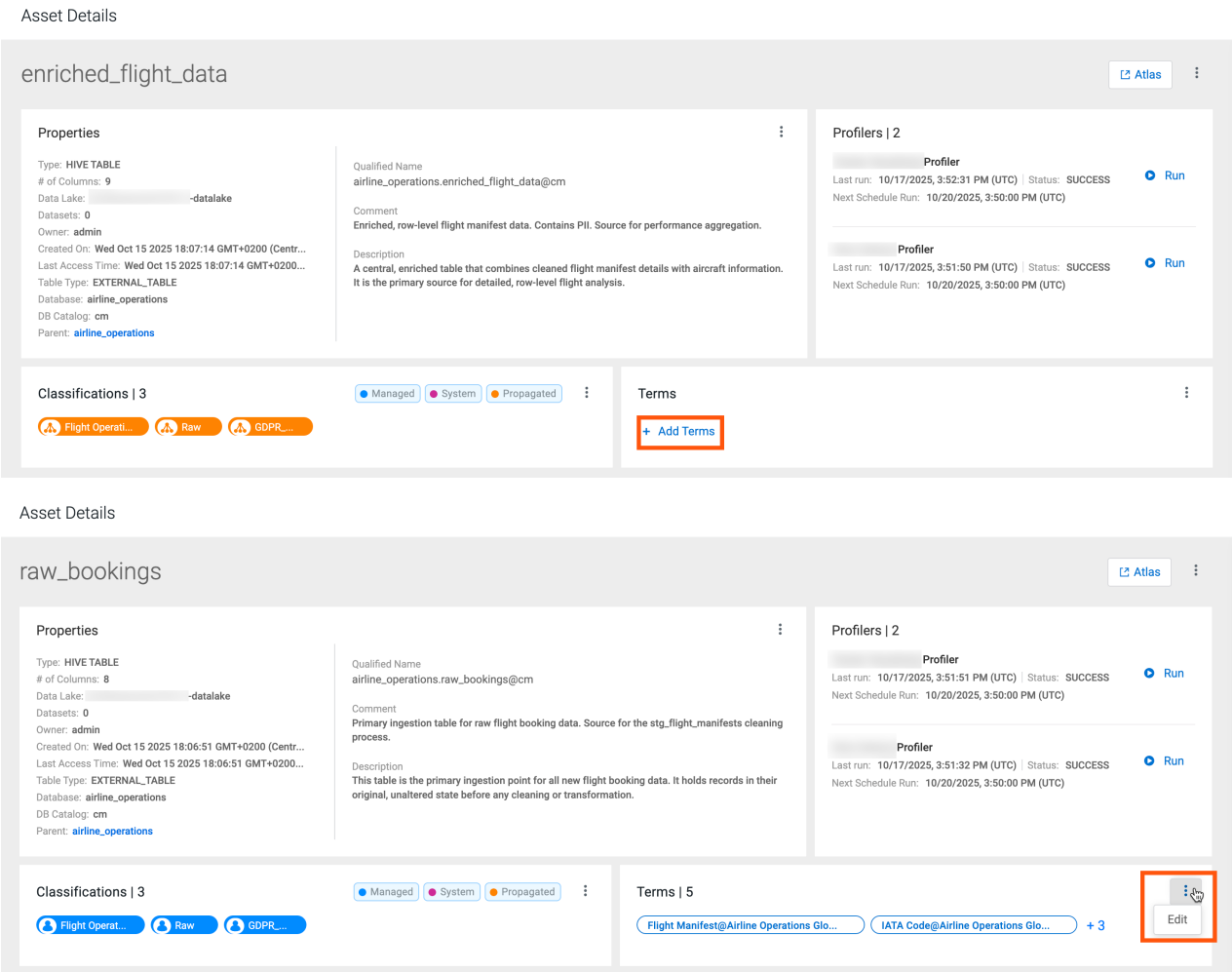


Figure 1: Editing glossary terms of an asset

Asset Details

raw_bookings

Properties

Type: **HIVE TABLE**
of Columns: **8**
Data Lake: **-datalake**
Datasets: **0**
Owner: **admin**
Created On: **Wed Oct 15 2025 18:06:51 GMT+0200 (Centr...**
Last Access Time: **Wed Oct 15 2025 18:06:51 GMT+0200...**
Table Type: **EXTERNAL_TABLE**
Database: **airline_operations**
DB Catalog: **cm**
Parent: **airline_operations**

Qualified Name
airline_operations.raw_bookings@cm

Comment
Primary ingestion table for raw flight booking data. Source for the stg_flight_manifest process.

Description
This table is the primary ingestion point for all new flight booking data. It holds original, unaltered state before any cleaning or transformation.

Classifications | 3

Managed

System

Propagated

Flight Operat...

Raw

GDPR...

Terms | 4

Flight Man

Overview

Schema

Metadata Audits

Policy

Access Audits

Lineage

Filter By: Depth: 3 Process Node: Hide

/warehouse/tables...

raw_bookings

stg_flight_manife...

Terms | 4

Flight Manifest@Airline Operations Glossary

Personally Identifiable Information@Airline Operations Glossary

Passenger Name Record@Airline Operations Glossary

Flight Route@Airline Operations Glossary

Q iat

IATA Code@Airline Operations Glossary

Save

Cancel

Note: You can also access the **Terms** pane from **Search**.

Search

Q Search

Atlas Ranger

Data Lakes

-datalake | 90

Filters

TYPE

+ Add New Value Clear

Hive Table
HBase Table

-datalake | 90

Type	Name	Qualified Name	Created On	Owner	Source
☐	stg_flight_manifests	airline_operations.stg_flight_manifests@cm	Wed Oct 15 2025	admin	hive
☐	dim_aircraft	airline_operations.dim_aircraft@cm	Wed Oct 15 2025	admin	hive
☐	raw_bookings	airline_operations.raw_bookings@cm	Wed Oct 15 2025	admin	hive
☐	airlines_new	airline_operations.airlines_new@cm	Wed Oct 15 2025	admin	hive
☐	flight_summary_complex	airline_operations.flight_summary_complex...	Mon Oct 20 2025	admin	hive

Edit Classifications
Edit Terms

Related Information

Glossaries overview

Creating glossaries

Creating terms

Searching for assets using Atlas glossaries

Search filters

Searching for assets using glossary terms

You can search for the datasets using the Glossary Terms filter available on the Search page.

Note: The option for searching based on Glossary terms appears only if there are terms available in Apache Atlas.

- 1. Go to Search.**

2. Scroll down to **GLOSSARY TERMS**.
3. Click + Add Term, and select the term to be used for your search.

CLUDERA

Data Catalog

Dashboard

Search

Datasets

Bookmarks

Profilers

Atlas Tags

Help

Search

Search

Data Lakes

829

Filters

TYPE

Hive Table

HBase Table

HDFS Path

+ Add New Value

Clear

OWNERS

atlas

csso_rasharma

hive

public

Clear

ENTITY TAG

+ Add New Value

Clear

GLOSSARY TERMS

- Related Information
- [Glossaries overview](#)
- [Creating glossaries](#)
- [Creating terms](#)
- [Searching for assets using Atlas glossaries](#)
- [Search filters](#)

Viewing Data Asset details

Use the Asset Details menu to learn about the specifics of your asset including its relation to other asset, metadata and access updates related to it or Apache Ranger policies affecting it.

To access the **Asset Details** menu, click an asset in the **Search** menu. This brings you to the **Overview** tab.

Asset Details

Properties

Type: HIVE TABLE

of Columns: 8

Data Lake: datalake

Datasets: 0

Owner: admin

Created On: Wed Oct 15 2025 18:06:51 GMT+0200 (Centr...

Last Access Time: Wed Oct 15 2025 18:06:51 GMT+0200...

Table Type: EXTERNAL_TABLE

Database: airline_operations

DB Catalog: cm

Parent: airline_operations

Qualified Name

airline_operations.raw_bookings@cm

Comment

Primary ingestion table for raw flight booking data. Source for the stg_flight_manifests cleaning process.

Description

This table is the primary ingestion point for all new flight booking data. It holds records in their original, unaltered state before any cleaning or transformation.

Profilers | 2

Profiler

Last run: 10/17/2025, 3:51:51 PM (UTC) | Status: SUCCESS

Next Schedule Run: 10/20/2025, 3:50:00 PM (UTC)

Run

Profiler

Last run: 10/17/2025, 3:51:32 PM (UTC) | Status: SUCCESS

Next Schedule Run: 10/20/2025, 3:50:00 PM (UTC)

Run

Classifications | 3

Managed

System

Propagated

Flight Operat...

Raw

GDPR...

Terms | 4

Flight Manifest@Airline Operations Glo...

+ 3

Overview

Schema

Metadata Audits

Policy

Access Audits

Lineage

Filter By: Depth: 3 Process Node: Hide

/warehouse/tables...

raw_bookings

stg_flight_manife...

enriched_flight_d...

agg_route_perform...

flight_summary_co...

- **Properties:**
 - **Type**
 - **Number of columns**
 - **Data Lake**
 - **Owner**
 - **Created On** date
 - **Modified Time**
 - **Namespace GUID** (HBase entity specific)
 - **Last Access Time**
 - **Table Type**
 - **DB Catalog**
 - **Parent**
 - **Qualified Name**
 - **Comment**



Note: This field is available for Hive tables and columns and Iceberg tables and columns.

- **Description**
- **Profilers:** The list of available on-demand profilers and details of the last run.
- **Classifications and Terms:** The list of assigned metadata.
- **Overview:** Shows the chain of custody for the data from relevant metadata repositories such as Apache Atlas. Lineage overview shows both upstream paths (lineage) into and downstream paths (impact) out of a given asset.
- **Schema:** Displays the schema of the data asset for structured data (such as Hive tables) from the relevant metadata repositories (such as Atlas).
- **Metadata Audits:** Shows the list of metadata changes.
- **Policy:** Shows security (authorization) policies defined on assets such as those present in Apache Ranger. It includes both resource (physical asset based) as well as classification based policies. This helps you understand how data access is secured and protected: what users can see what data (or metadata) under what conditions (security policies, data protection, and anonymization).
- **Access Audits:** Shows the most recent access audits from Apache Ranger.

Supported Data Asset fields for entities

The Asset Details menu displays all the Apache Atlas metadata associated with a particular data asset.

Supported fields

The following matrix captures the supported fields for different asset types:

Asset Type	Lineage	Tagging	Access Metrics	Schema	Policy	Metadata and Access Audits	Atlas Punch out
Hive DB	Not Supported	Yes	Not Supported	Not Supported	Yes	Yes	Yes
Hive Table	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hive Column	Yes	Yes	Not Supported	Not Supported	Yes	Yes	Yes
Hbase Namespace	Yes	Yes	Not Supported	Not Supported	Yes	Yes	Yes
Hbase Table	Yes	Yes	Not Supported	Yes	Yes	Yes	Yes

Asset Type	Lineage	Tagging	Access Metrics	Schema	Policy	Metadata and Access Audits	Atlas Punch out
Hbase Column Family	Yes	Yes	Not Supported	Not Supported	Yes	Yes	Yes
impala_process	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
impala_column_lineage	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
impala_process_execution	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
ML_Project	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
ML_Model_Build	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
ML_Model_Deploy	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
rdbms_db	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
rdbms_column	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
rdbms_foreign_key	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
rdbms_index	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
rdbms_instance	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
rdbms_table	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
spark_process	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
spark_application	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
spark_column	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
spark_column_lineage	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
spark_db	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
spark_ml_directory	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
spark_ml_model	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
spark_ml_pipeline	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
spark_process_execution	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes
spark_table	Yes	Yes	Not Supported	Not Supported	Not Supported	Not Supported	Yes

Navigation in Asset Details

A generic Assets Details page is available for container data types like buckets and databases.

The **Content** tab (similar to the **Schema** tab) lists all the contents of the selected entity. Clicking on any element available in the **Content** tab navigates you to the **Asset Details** page.

Asset Details

airline_operations

Atlas

Properties

Type: HIVE DB
Data Lake: -datalake
Owner: admin
Created On: -NA-
Update Time: -NA-
Created By: hive
Updated By: admin
Status: ACTIVE

Qualified Name
airline_operations@cm

Description
This is the primary database for the end-to-end airline operations data pipeline. It contains all related tables, from raw data ingestion (raw_bookings) through cleansing and enrichment (enriched_flight_data) to the final, certified business intellig ...

Classifications | 14

Managed

System

Propagated

Staged

Confide...

Fleet Manage...

Raw

Archi...

+ 9

Terms | 9

Load Factor@Airline Operations Glo...

IATA Code@Airline Operations Glo...

+ 7

Content

Metadata Audits

Policy

Access Audits

Type	Name	Location	Created On	Owner	Source
hive_table	agg_route_performance	/airline_operations.agg_route_performance@cm	Wed Oct 15 2025	admin	hive
hive_table	airlines_new	/airline_operations.airlines_new@cm	Wed Oct 15 2025	admin	hive
hive_table	dim_aircraft	/airline_operations.dim_aircraft@cm	Wed Oct 15 2025	admin	hive
hive_table	enriched_flight_data	/airline_operations.enriched_flight_data@cm	Wed Oct 15 2025	admin	hive
hive_table	flight_summary_complex	/airline_operations.flight_summary_complex@cm	Mon Oct 20 2025	admin	hive
hive_table	raw_bookings	/airline_operations.raw_bookings@cm	Wed Oct 15 2025	admin	hive
hive_table	route_performance_archive_hive	/airline_operations.route_performance_archive_hive@cm	Wed Oct 15 2025	admin	hive
hive_table	stg_flight_manifests	/airline_operations.stg_flight_manifests@cm	Wed Oct 15 2025	admin	hive

For example, for a database entity having a list of tables, clicking on any listed table navigates to the **Asset Details** page of the same table. This page helps you understand the parent-child relationship between related assets. The **Contents** tab displays entities that are contained within assets of container entity types. The entities in the table of **Contents** tab are clickable, which will allow you to navigate to the **Asset Details** page of these contained assets.

In these contained assets, the Parent row in the **Properties** panel allows you to go one level up in the hierarchy to the container element. In certain elements, such as Hive tables, the **Schema** tab contains further elements whose name can be clicked to open individual contained elements.

Asset Details

persons

Properties

Type: HIVE TABLE

Data Lake: dc-pro-h8f2uu

Datasets: 3

Owner: hive

Created On: Mon Jun 17 2024 10:00:53 GMT+0200 (Cent...)

Last Access Time: Mon Jun 17 2024 10:00:53 GMT+020...

Table Type: EXTERNAL_TABLE

Database: personal_data

DB Catalog: cm

Parent: **personal_data**

Asset Type: HIVE TABLEHIVE DB

Qualified Name

personal_data.persons@cm

Comment

+ Add Comment

Description

+ Add Description

Classifications

+ Add Classification

Managed System Propagated

Terms

+ Add Terms

Overview

Schema

Metadata Audits

Policy

Access Audits

Search Column

Edit

Chart Type	Name	Type	Unique Values *	Null Values	Max	Min	Mean	Comment	Classifications	Terms
	name	string								
	ssn	string							dp_ssn	
	dob	string								
	email	string								

The following table lists the entity types, their parent, and contents.

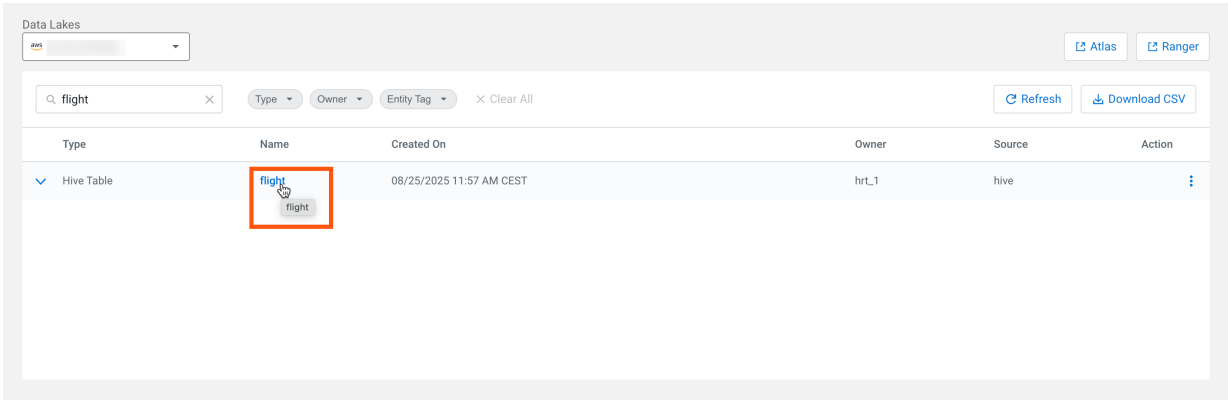
Type	Parent	Content
Hive DB	-	Hive Table
Hive Table	Hive DB	Hive column
HBase Namespace	-	HBase Table
ML Project	-	ML Model Build
ML Model Build	ML Project	ML Model Deployment
RDBMS Instance	-	RDBMS DB
RDBMS DB	RDBMS Instance	RDBMS Table

Creating a classification from Asset Details

You can create and add Atlas classifications in in multiple places to label data assets, which simplifies data discovery and helps in consistently applying governance policies like security and access control in Apache Ranger.

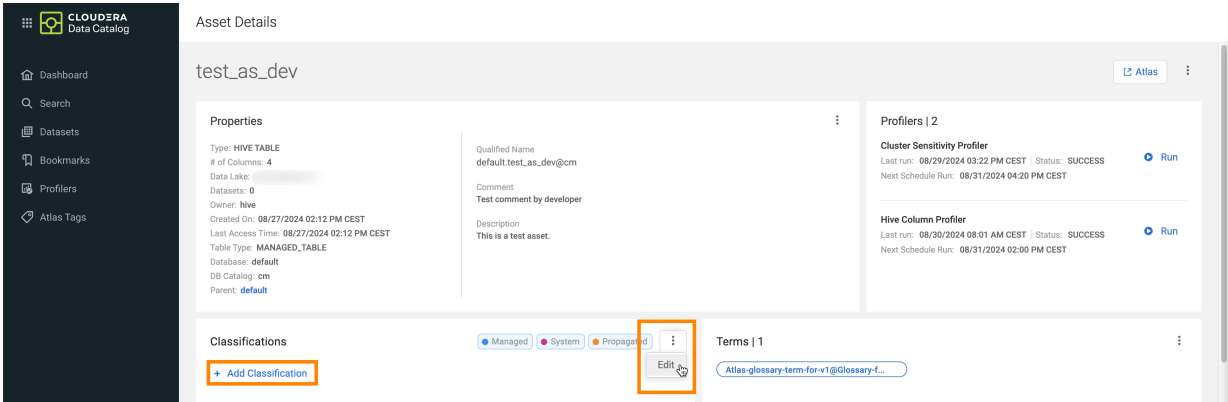
Procedure

- 1. Go to the **Asset Details** page of an asset.



- 2. Click Add Classification or  icon by an asset, then select Edit.

Figure 2: Adding Atlas classifications



3. Search for a previously created classification or create a new one.

Figure 3: Creating a new Atlas classification from Cloudera Data Catalog

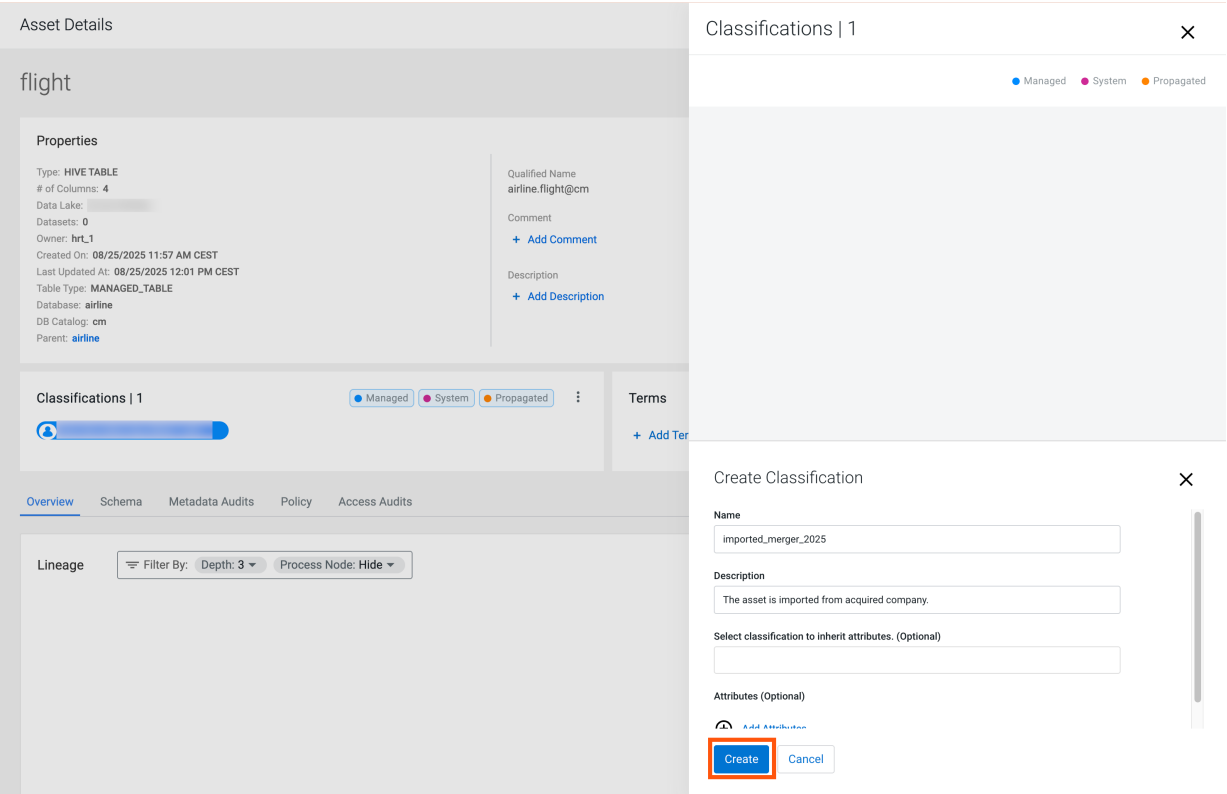
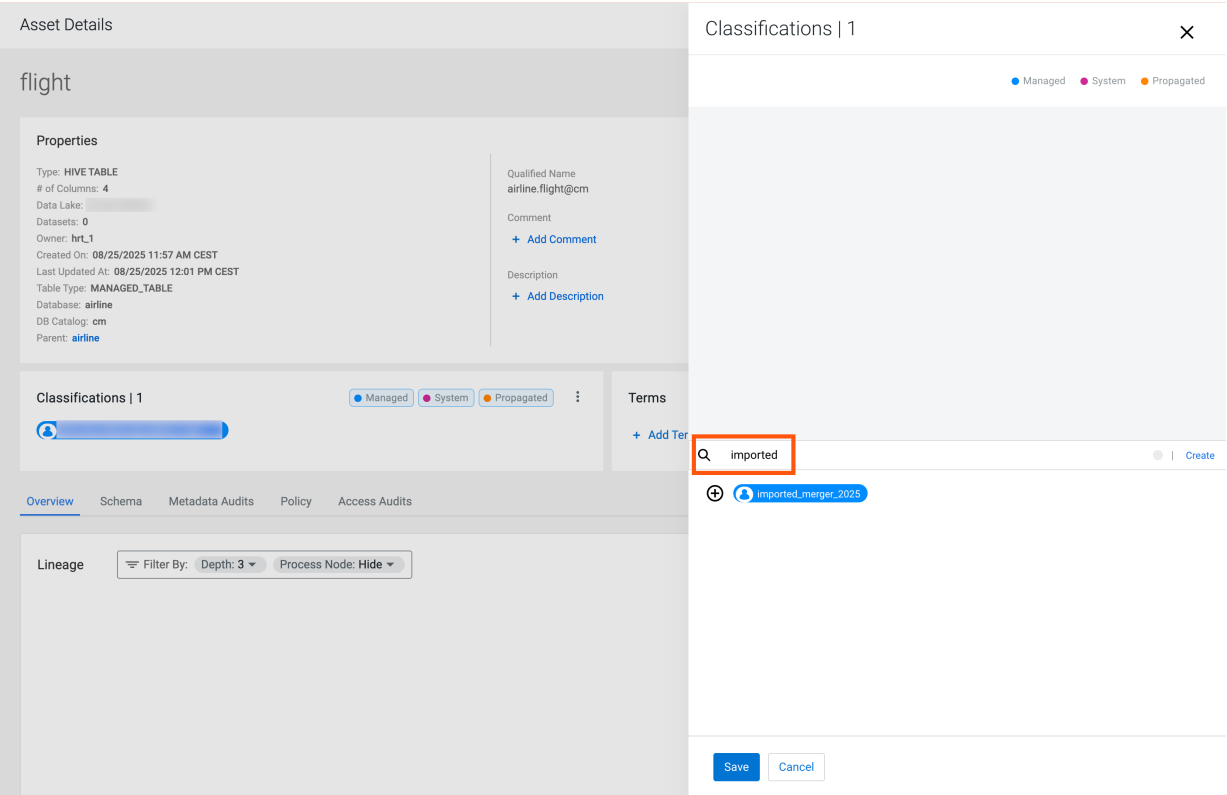


Figure 4: Searching for an Atlas classification



- Click Save to finalize your changes.

Related Information

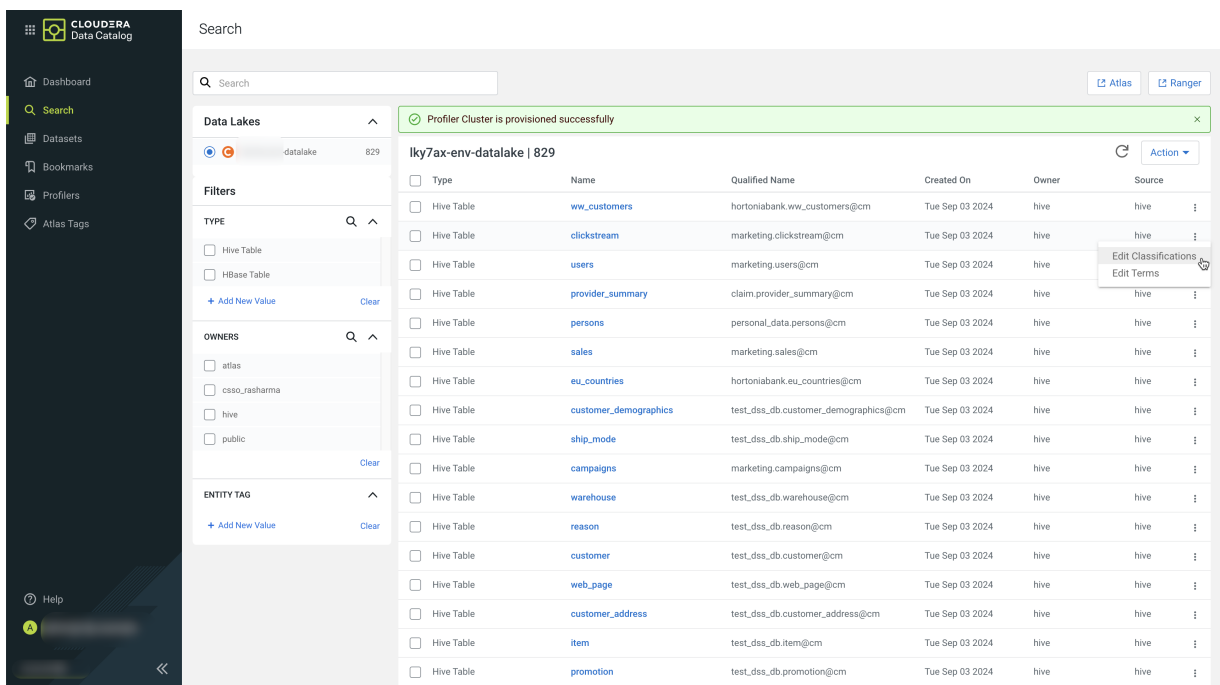
[Apache Atlas metadata attributes](#)
[Working with Atlas classifications and labels](#)
[Creating classifications](#)
[Tag-based Services and Policies](#)
[Atlas classifications drive Ranger policies](#)
[Atlas tag management](#)
[Creating a classification from Search page](#)

Creating a classification from Search page

You can create and add Atlas classifications in in multiple places to label data assets, which simplifies data discovery and helps in consistently applying governance policies like security and access control in Apache Ranger.

Procedure

- Go to the **Search** page.
- Click the  icon by an asset, then select Edit Classifications.



The screenshot shows the Cloudera Data Catalog Search page. On the left is a sidebar with navigation links: Dashboard, Search, Datasets, Bookmarks, Profilers, and Atlas Tags. The main area displays a table of data assets under the heading 'Data Lakes'. A search bar is at the top. A green notification banner at the top says 'Profiler Cluster is provisioned successfully'. The table has columns: Type, Name, Qualified Name, Created On, Owner, and Source. A context menu is open for the 'users' asset, showing options 'Edit Classifications' and 'Edit Terms'.

Type	Name	Qualified Name	Created On	Owner	Source
Hive Table	ww_customers	hortoniabank.ww_customers@cm	Tue Sep 03 2024	hive	hive
Hive Table	clickstream	marketing.clickstream@cm	Tue Sep 03 2024	hive	hive
Hive Table	users	marketing.users@cm	Tue Sep 03 2024	hive	hive
Hive Table	provider_summary	claim.provider_summary@cm	Tue Sep 03 2024	hive	hive
Hive Table	persons	personal_data.persons@cm	Tue Sep 03 2024	hive	hive
Hive Table	sales	marketing.sales@cm	Tue Sep 03 2024	hive	hive
Hive Table	eu_countries	hortoniabank.eu_countries@cm	Tue Sep 03 2024	hive	hive
Hive Table	customer_demographics	test_dss_db.customer_demographics@cm	Tue Sep 03 2024	hive	hive
Hive Table	ship_mode	test_dss_db.ship_mode@cm	Tue Sep 03 2024	hive	hive
Hive Table	campaigns	marketing.campaigns@cm	Tue Sep 03 2024	hive	hive
Hive Table	warehouse	test_dss_db.warehouse@cm	Tue Sep 03 2024	hive	hive
Hive Table	reason	test_dss_db.reason@cm	Tue Sep 03 2024	hive	hive
Hive Table	customer	test_dss_db.customer@cm	Tue Sep 03 2024	hive	hive
Hive Table	web_page	test_dss_db.web_page@cm	Tue Sep 03 2024	hive	hive
Hive Table	customer_address	test_dss_db.customer_address@cm	Tue Sep 03 2024	hive	hive
Hive Table	item	test_dss_db.item@cm	Tue Sep 03 2024	hive	hive
Hive Table	promotion	test_dss_db.promotion@cm	Tue Sep 03 2024	hive	hive

- Search for a previously created classification or create a new one.
- Click Save to finalize your changes.

Related Information

[Apache Atlas metadata attributes](#)
[Working with Atlas classifications and labels](#)
[Creating classifications](#)
[Tag-based Services and Policies](#)
[Atlas classifications drive Ranger policies](#)
[Atlas tag management](#)
[Creating a classification from Asset Details](#)

Additional search options for asset types

Using Cloudera Data Catalog, you can add or edit asset description values to search for data assets across both Cloudera Data Catalog and Apache Atlas services by using the asset content. These values can be searched.

Adding comments and descriptions to assets

In the **Asset Details** page for each asset type that you select, you can add or edit **comment** or **description** fields. Including these values for the selected asset helps you to identify your chosen asset.

Using the same set of values (comment or description), you can also search for the asset types in Atlas.



Note: The comment and description options are supported only for Hive table and Hive Column assets. For other asset types, only the description option is supported.

Data Catalog / Asset Details

ww_customers [Atlas](#)

Properties

- Type: **HIVE TABLE**
- # of Columns: **40**
- Data Lake:
- Datasets: **0**
- Owner: **hive**
- Created On: **Tue Mar 09 2021 10:48:45 GMT+0530 (India Stand...**
- Last Access Time: **Tue Mar 09 2021 10:48:45 GMT+0530 (Indi...**
- Table Type: **EXTERNAL_TABLE**
- Database: **hortoniabank**
- DB Catalog:
- Parent: **hortoniabank**

Qualified Name
hortoniabank.ww_customers@cm

Comment
+ Add Comment

Description
+ Add Description

Profilers | 2

Cluster Sensitivity Profiler
Last run: **8 hours ago** | Status: **SUCCESS**
Next Schedule Run: **Thursday at 11:50 AM**
Run

Hive Column Profiler
Last run: **8 hours ago** | Status: **SUCCESS**
Next Schedule Run: **Tomorrow at 5:30 PM**
Run

Click **+ Add Comment** or **+ Add Description** fields to include the respective values.

Data Catalog / Asset Details

ww_customers [Atlas](#)

Properties

- Type: **HIVE TABLE**
- # of Columns: **40**
- Data Lake:
- Datasets: **0**
- Owner: **hive**
- Created On: **Tue Mar 09 2021 10:48:45 GMT+0530 (India Stand...**
- Last Access Time: **Tue Mar 09 2021 10:48:45 GMT+0530 (Indi...**
- Table Type: **EXTERNAL_TABLE**
- Database: **hortoniabank**
- DB Catalog:
- Parent: **hortoniabank**

Qualified Name
hortoniabank.ww_customers@cm

Comment
passport_number

Description
visa_number

Profilers | 2

Cluster Sensitivity Profiler
Last run: **9 hours ago** | Status: **SUCCESS**
Next Schedule Run: **Thursday at 11:50 AM**
Run

Hive Column Profiler
Last run: **8 hours ago** | Status: **SUCCESS**
Next Schedule Run: **Tomorrow at 5:30 PM**
Run

Click **Save** to save your changes.

Data Catalog / Asset Details

Asset details were updated successfully.

ww_customers

[Atlas](#)

Properties

Type: **HIVE TABLE**
 # of Columns: **40**
 Data Lake:
 Datasets: **0**
 Owner: **hive**
 Created On: **Tue Mar 09 2021 10:48:45 GMT+0530 (India Stand...**
 Last Access Time: **Tue Mar 09 2021 10:48:45 GMT+0530 (Indi...**
 Table Type: **EXTERNAL_TABLE**
 Database: **hortoniabank**
 DB Catalog:
 Parent: **hortoniabank**

Qualified Name
hortoniabank.ww_customers@cm
 Comment
passport_number
 Description
visa_number

Profilers | 2

Cluster Sensitivity Profiler

Last run: **9 hours ago** | Status: **SUCCESS**
 Next Schedule Run: **Thursday at 11:50 AM**

[Run](#)

Hive Column Profiler

Last run: **8 hours ago** | Status: **SUCCESS**
 Next Schedule Run: **Tomorrow at 5:30 PM**

[Run](#)

Note: You can also edit the already saved valued by clicking the  icon.

Clicking on the Atlas button will navigate to the corresponding Atlas asset page as shown:



ww_customers (hive_table)

Classifications: [+](#)Terms: [+](#)

Properties

Lineage

Relationships

Classifications

Audits

Schema

Technical properties



columns (40)

title
 givenname
 middleinitial

comment passport_number

createTime 03/09/2021 10:48:45 AM (IST)

db

hortoniabank

dcProfiledData

```
{
  samplePercent: "100.0",
  rowCount: 50000,
}
```

description visa_number

> User-defined properties

[Add](#)

> Labels

[Add](#)

> Business Metadata

[Add](#)[Switch to Beta UI](#)

Searching comments and descriptions

The values of the **Comment** or **Description** fields can be searched in the **Search** menu. The result page displays the assets where you added your comments and descriptions without the use of filters.

Data Catalog / Search

Search: Visa Number

Data Lakes

Filters

TYPE

☒ Hive Table

☐ HBase Table

Add New Value Clear

OWNERS

☐ hive

Clear

DATABASE

☐ information_schema

☐ sys

Setup the Profiler for cloudera-kc3fw4 | 1

Profiler runs data profiling operations as a pipeline on data located in the data lake which helps to view the profiled results for assets. Setting up a Profiler launches a cluster with various services like HDFS, YARN, Livy, Spark, HMS, Profiler Manager Service, and Profiler Scheduler Service. [Get Started](#)

Type	Name	Qualified Name	Created On	Owner	Source	Action
☐ Hive Table	role_map	sys.role_map@cm	Fri Aug 27 2021	hive	hive	

Clicking on the asset type displays the comment and description values.

Data Catalog / Asset Details

role_map

Properties

Type: HIVE TABLE

of Columns: 8

Data Lake:

Datasets: 0

Owner: hive

Created On: Fri Aug 27 2021 10:51:33 GMT+0530 (India Standard Time)

Last Access Time: Fri Aug 27 2021 10:51:33 GMT+0530 (India Standard Time)

Table Type: EXTERNAL_TABLE

Database: sys

DB Catalog: cm

Parent: sys

Qualified Name: sys.role_map@cm

Comment: Visa Number

Description: Passport Number

Classifications

☒ Managed ☐ System ☐ Propagated

Add Classification

Terms

Add Terms

Overview Schema Metadata Audits Policy Access Audits

Lineage

Filter By: Depth: 3 Process Node: Hide

Mapping glossary terms

Cloudera Data Catalog synchronizes the glossary terms that are created in Apache Atlas. These can be seen in Search and Asset Details.

You can search for Atlas glossary terms in **Search** and map specific terms with assets in **Asset Details**. You can also search for terms to delete them from the selected asset. The selected asset displays the total number of terms associated or mapped accordingly.

When you map a specific term for your dataset, the term is displayed in the following format:

```
<termname>@glossaryname>
```

Figure 5: Glossary term in Search

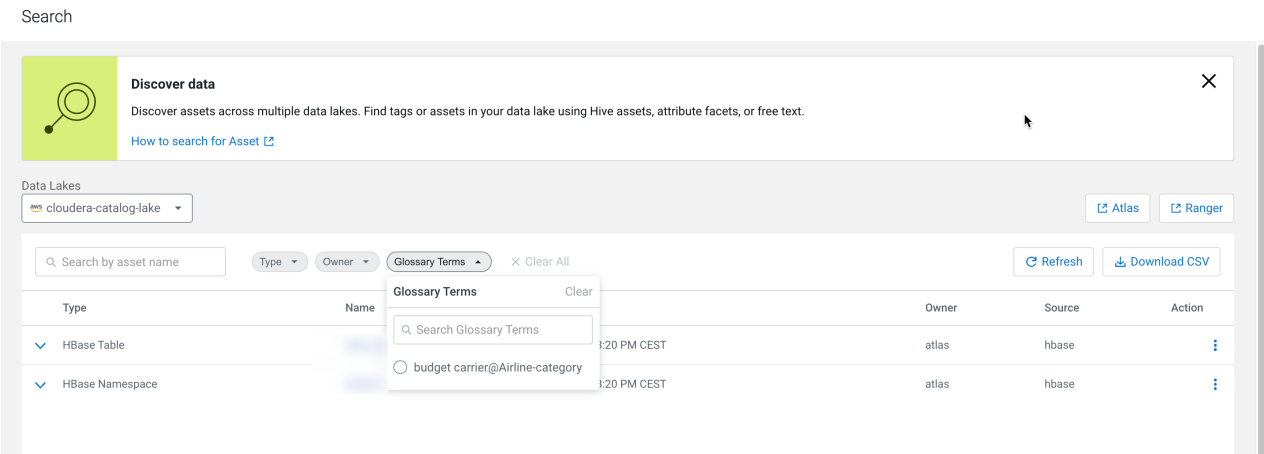
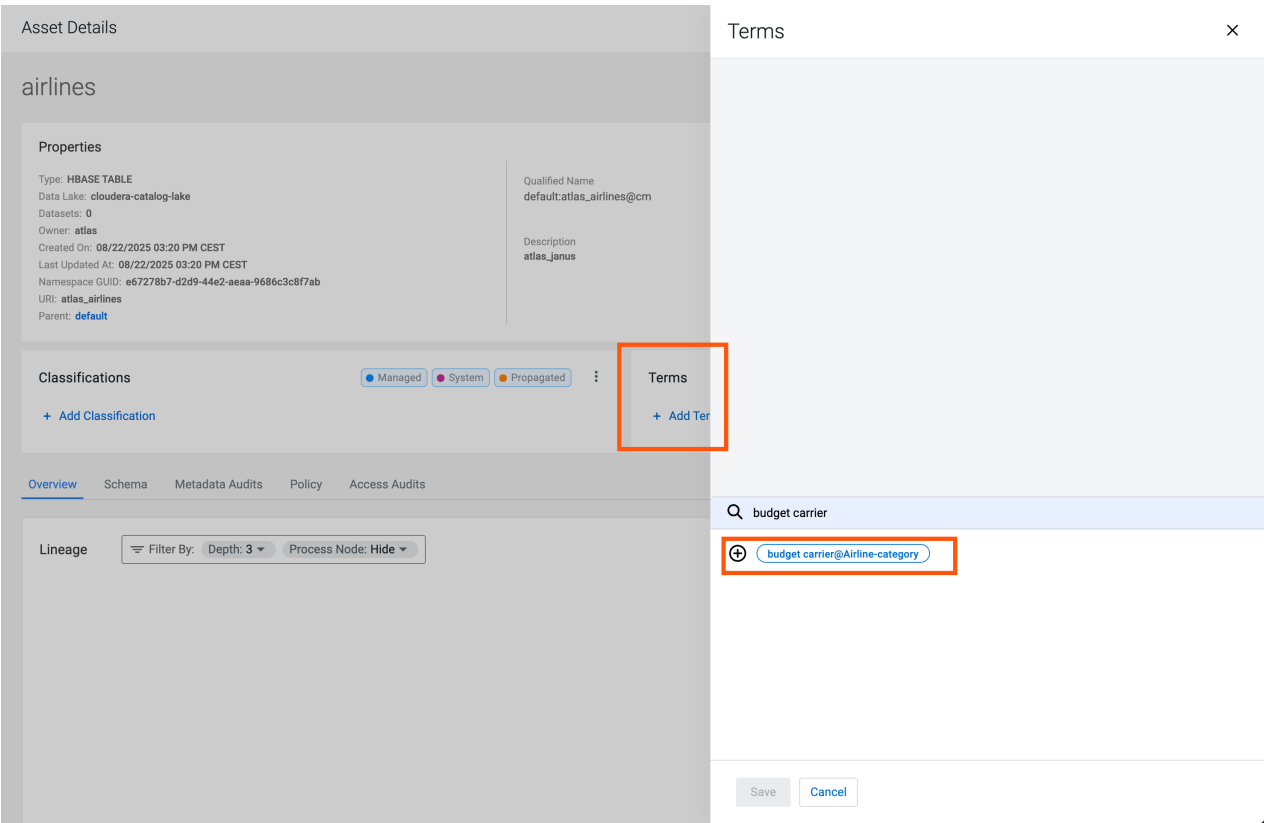


Figure 6: Glossary term in Asset Details



You can use the icon in the **Terms** widget on the **Asset Details** page to add new terms for your assets. Click Save to save the changes.

Figure 7: Mapping terms in Asset Details

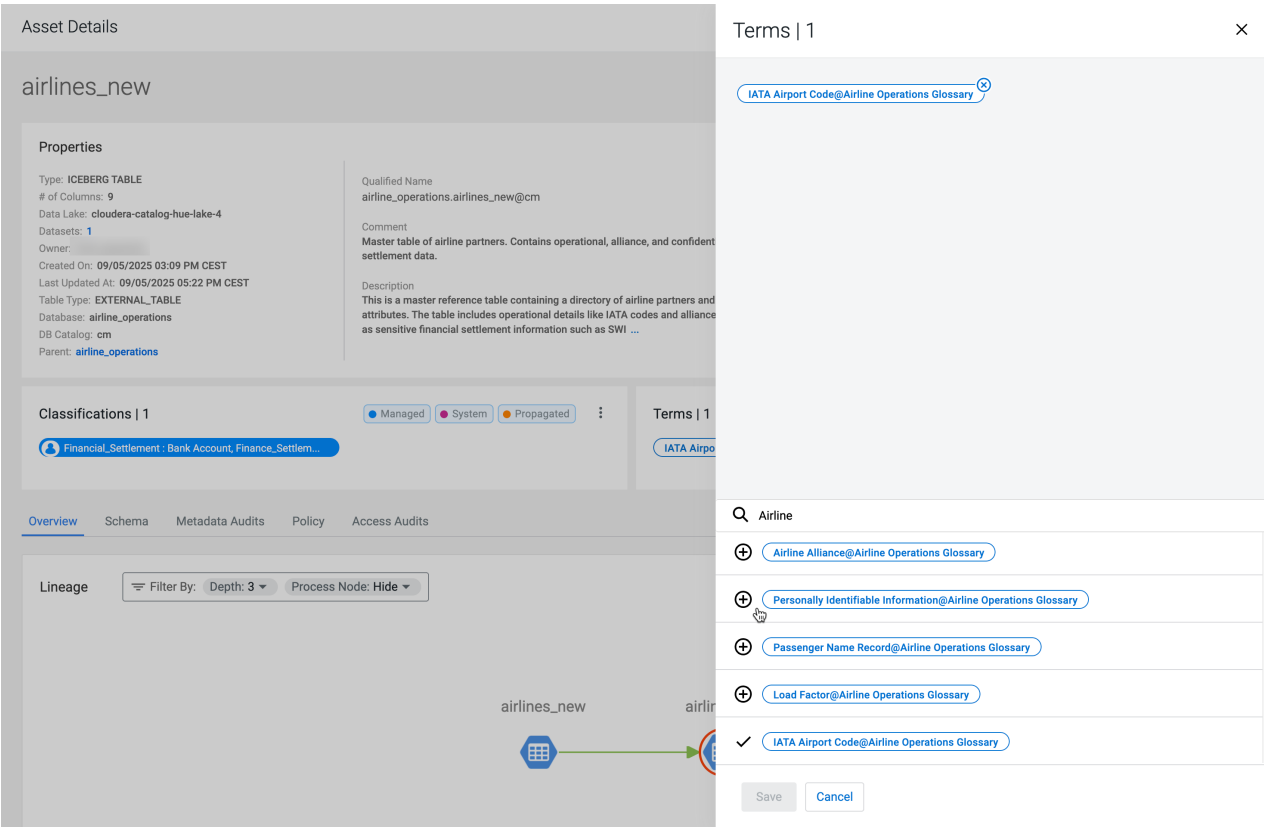
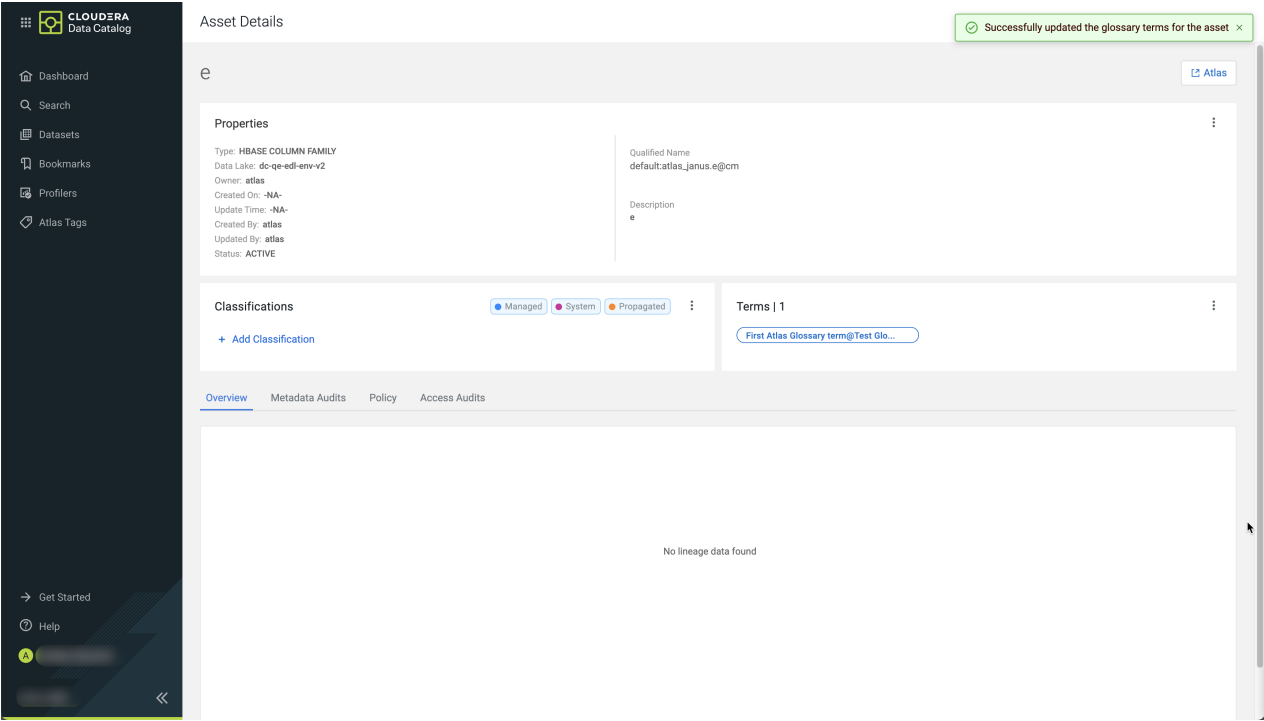
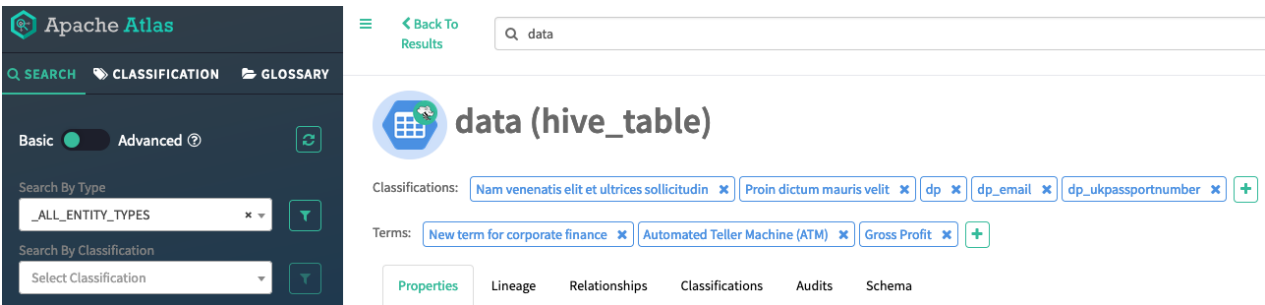


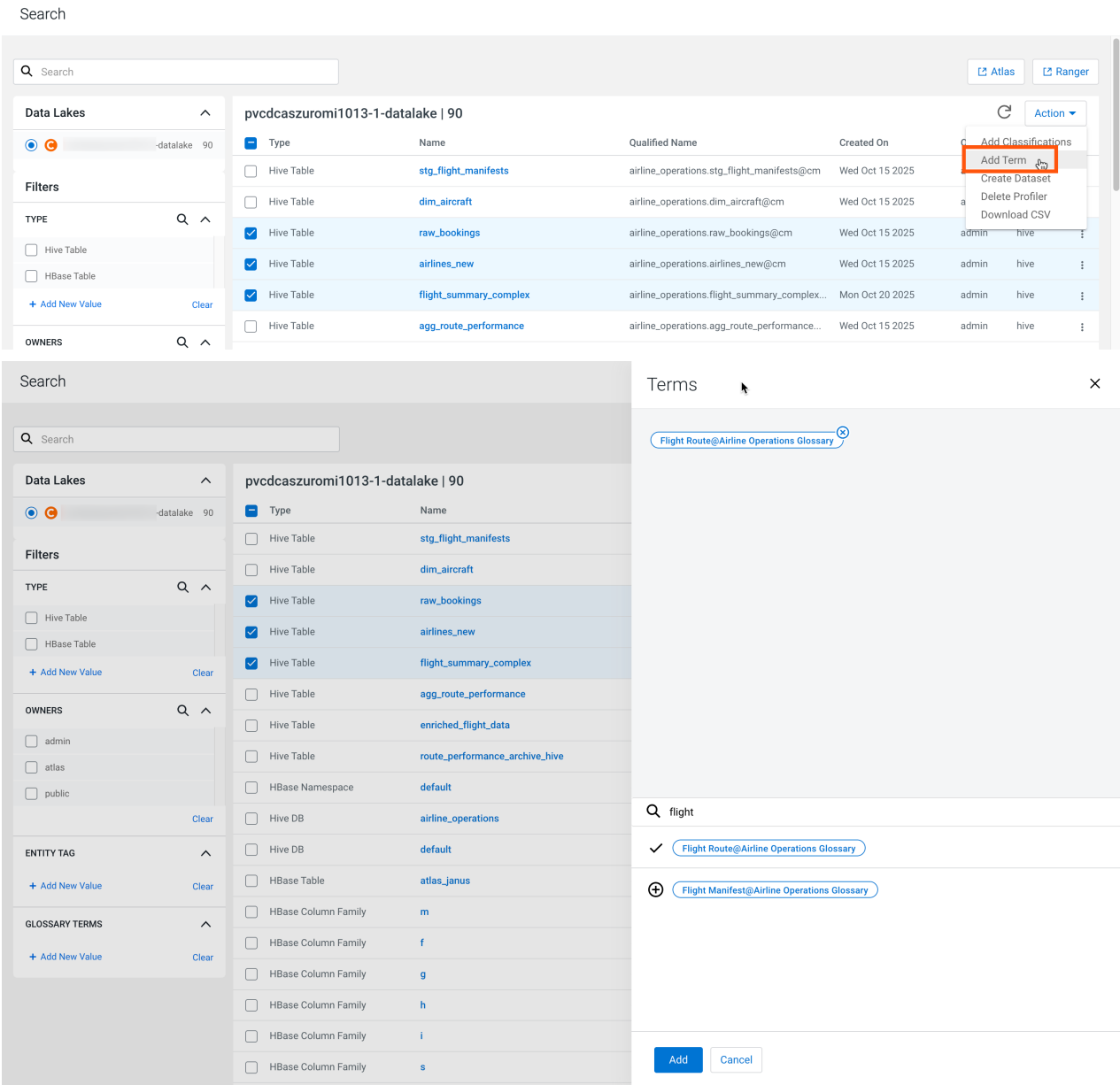
Figure 8: Mapped glossary term



You can search for the same asset in the corresponding Atlas environment as shown in the example image.



Additionally, you can also associate terms to your datasets by selecting one or more assets on the **Search** page. You can associate terms with multiple datasets at a time.



When you select a Hive table asset and navigate to the **Asset Details** page, under the **Schema** tab, you can view the list of terms associated with the asset.

OverviewSchemaMetadata AuditsPolicyAccess Audits

Q Search column

Edit

Chart Type	Name	Type	Unique Values *	Null Values	Max	Min	Mean	Comment	Classifications	Terms
▼	flight_id_raw	string	10	0						
▼	passenger_name_raw	string	14	0						
▼	seat_assignment_raw	string	14	0						
▼	aircraft_model_raw	string	6	0						
▼	origin_airport_raw	string	4	0						
▼	destination_airport_raw	string	8	0						
▼	age_raw	int	14	0	62	25	38.43	Passenger age. PII data subject to ...	GDPR... + 1	Personally Identia... + 1
▼	ticket_price_usd_raw	decimal(10,2)	12	0	1,450	85.5	536.96	Total ticket fare in USD. Confident ...	Revenue Manage... + 2	Passenger Fare@Airline ...

* Approximate values as being computed using HLL algorithm.

You can add or update the terms for the associated datasets by clicking the Edit button.

OverviewSchemaMetadata AuditsPolicyAccess Audits

Q Search column

Edit

Terms

Classifications

Chart Type	Name	Type	Unique Values *	Null Values	Max	Min	Mean	Comment	Classifications	Terms
▼	flight_id_raw	string	10	0						
▼	passenger_name_raw	string	14	0						
▼	seat_assignment_raw	string	14	0						
▼	aircraft_model_raw	string	6	0						
▼	origin_airport_raw	string	4	0						
▼	destination_airport_raw	string	8	0						
▼	age_raw	int	14	0	62	25	38.43	Passenger age. PII data subject to ...	GDPR... + 1	Personally Identia... + 1
▼	ticket_price_usd_raw	decimal(10,2)	12	0	1,450	85.5	536.96	Total ticket fare in USD. Confident ...	Revenue Manage... + 2	Passenger Fare@Airline ...

* Approximate values as being computed using HLL algorithm.

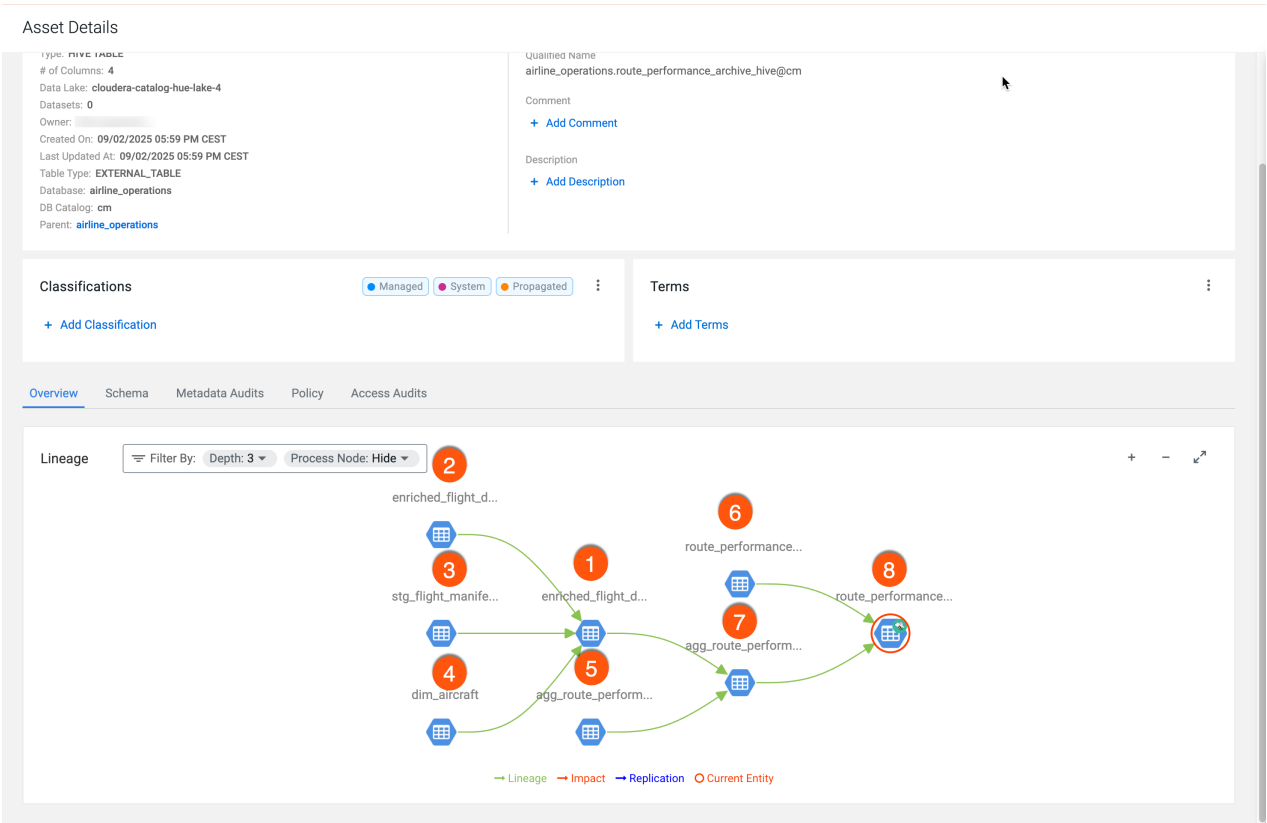
Related Information

- Glossaries overview
- Creating glossaries
- Creating terms
- Searching for assets using Atlas glossaries
- Search filters

Navigation support for hive entities within Lineage

The Lineage in the Overview tab shows the chain of custody for the data from relevant metadata repositories such as Apache Atlas. Lineage overview shows both upstream paths (lineage) into and downstream paths (impact) out of a given asset.

When you click a Hive entity within a lineage, the **Asset Details** page of the selected Hive entity is displayed. In the **Overview** tab, you can change the detail level of the lineage with the Depth drop-down and Show Process:



- The enriched_flight_data table (1) is created by joining the following source tables:
 - airline_operations.stg_flight_manifests@cm (3): This is the main source of transactional data.
 - airline_operations.dim_aircraft@cm (4): This is a dimension or lookup table. It provides supplemental information.
- s3a://eng-sdx-weekly-qe/cloudera-catalog-hue-lake-4/7c002e988b2048f3b7197c5125694e7e/storage/warehouse/tablespace/external/hive/airline_operations.db/enriched_flight_data/@cm (5) is the physical path for storing airline_operations.stg_flight_manifests@cm and airline_operations.dim_aircraft@cm.
- airline_operations.agg_route_performance@cm (7) is table created from aggregated some items from enriched_flight_data with an additional query.
- s3a://eng-sdx-weekly-qe/cloudera-catalog-hue-lake-4/7c002e988b2048f3b7197c5125694e7e/storage/warehouse/tablespace/external/hive/airline_operations.db/agg_route_performance/@cm (6) is the physical path for storing airline_operations.agg_route_performance@cm.
- airline_operations.route_performance_archive_hive@cm (8) is a direct copy of the aggregation table, intended for historical record-keeping in this example.

Alternatively, if you do not want to navigate away from the current page and want to view the information with

respect to any entity, hover on the entity and click the information icon  to view the details.

The screenshot depicts the slider information for the clicked entity:

Asset Details

Properties

Type: AWS S3 V2 DIRECTORY

Data Lake: cloudera-catalog-hue-lake-4

Owner: -NA-

Created On: 09/02/2025 05:58 PM CEST

Last Updated At: N/A

Created By: hive

Updated By: hive

Status: ACTIVE

Parent: [airline_operations.db](#)

Qualified Name

s3a://eng-sdx-weekly-qe/cloudera-catalog-hue-lake-4/7c002e988b2048f3b7197c5125694e7e/storage/warehouse/tablespace/external/hive/airline_operations.db/enriched_flight_data/@cm

Description

[+ Add Description](#)

Classifications

Managed

System

Propagated

[+ Add Classification](#)

Terms

[+ Add Terms](#)

Overview

Content

Metadata Audits

Lineage

Filter By: Depth: 3 Process Node: Show

enriched_flight_d...

airline_operation...

Lineage

Impact

Replication

Cu

QUERY:airline_operations.enriched_flight_data@cm:175682870500...

Guid: a05086fe-4235-4b09-bf8f-aba225efb42c

Type Name: hive_process

Classifications(0): -

Owner: -NA-

Qualified Name: QUERY:airline_operations.enriched_flight_data@cm:1756828705000->INSERT_OVERWRITE:airline_operations.agg_route_performance@cm:1756828730000

Created On: Tue Sep 02 2025 17:59:01 GMT+0200 (Central European Summer Time)

Last Updated At: -NA-

Created By:

This field shows the Hive operation writing data from `airline_operations.enriched_flight_data@cm` to the `airline_operations.agg_route_performance@cm` table.

Adding assets to one or more datasets

On the Asset Details screen, users are provided with an option to add the asset to a dataset for easier management and searching.

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Asset Details

stg_flight_manifests

Properties

Type: ICEBERG TABLE

of Columns: 6

Data Lake: cloudera-catalog-hue-lake-4

Datasets: 1

Owner:

Created On: 09/02/2025 05:58 PM CEST

Last Updated At: 09/04/2025 11:53 AM CEST

Table Type: EXTERNAL_TABLE

Database: airline_operations

DB Catalog: cm

Parent: airline_operations

Qualified Name

airline_operations.stg_flight_manifests@cm

Comment

Transient staging table for cleaned flight booking data from raw_bookings. Contents are overwritten daily. Source for the data enrichment process.

Description

This is a transient staging table that holds the cleaned version of raw flight booking records from the raw_bookings table. Its primary purpose is to act as an intermediate step in the data pipeline. The only transformation applied at this stage is ...

Profilers | 2

Data Compliance Profiler

Last run: N/A | Status: -NA-

Next Schedule Run: 09/06/2025 02:00 AM CEST

Run

Statistics Collector Profiler

Last run: N/A | Status: -NA-

Next Schedule Run: 09/05/2025 12:45 PM CEST

Run

Classifications

Managed

System

Propagated

+ Add Classification

Terms

+ Add Terms

Overview

Schema

Metadata Audits

Policy

Access Audits

Lineage

Filter By: Depth: 3 Process Node: Hide

stg_flight_manife...

raw_bookings

raw_bookings

stg_flight_manife...

enriched_flight_d...

agg_route_perform...

route_performance...

The **Add to Dataset** pane provides an option to add the asset into one or more existing datasets or even create a new one.

Datasets that already contain the asset are disabled and marked as checked. Datasets which are currently in edit state are disabled and marked with the characters a *.

28

Asset Details

airlines_new

Properties

Type: ICEBERG TABLE

of Columns: 9

Data Lake: cloudera-catalog-hue-lake-4

Datasets: 0

Owner:

Created On: 09/05/2025 03:09 PM CEST

Last Updated At: 09/05/2025 03:11 PM CEST

Table Type: EXTERNAL_TABLE

Database: airline_operations

DB Catalog: cm

Parent: airline_operations

Qualified Name

airline_operations.airlines_new@cm

Comment

+ Add Comment

Description

+ Add Description

Classifications

+ Add Classification

Managed

System

Propagated

Terms

+ Add Terms

Overview

Schema

Metadata Audits

Policy

Access Audits

Lineage

Filter By: Depth: 3 Process Node: Hide

airlines_new

airlines_new

Add to Dataset

Search by Name

Search by Tag

+ New Dataset

Name

Owner

of Assets

☐

Detailed Flight Manifests2

☐

Route Performance & Load Factor Summary1

☐

Aircraft Fleet Master Data0

☒

Airline Partner Directory0

Add Asset

Cancel

Users can search for an existing dataset by name or by tags applied on the dataset. Users can select one or more datasets from the list and then click on the Add Asset button which adds the asset to these dataset(s).

Asset Details

stg_flight_manifests

Properties

Type: ICEBERG TABLE

of Columns: 6

Data Lake: cloudera-catalog-hue-lake-4

Datasets: 1

Owner:

Created On: 09/02/2025 05:58 PM CEST

Last Updated At: 09/04/2025 11:53 AM CEST

Table Type: EXTERNAL_TABLE

Database: airline_operations

DB Catalog: cm

Parent: airline_operations

Qualified Name

airline_operations.stg_flight_manifests@cm

Comment

Transient staging table for cleaned flight booking data from raw_bookings. Contents are overwritten daily. Source for the data enrichment process.

Description

This is a transient staging table that holds the cleaned version of raw flight booking records from the raw_bookings table. Its primary purpose is to act as an intermediate step in the data pipeline. The only transformation applied at this stage is ...

Classifications

+ Add Classification

Managed

System

Propagated

Terms

+ Add Terms

Overview

Schema

Metadata Audits

Policy

Access Audits

Lineage

Filter By: Depth: 3 Process Node: Hide

raw_bookings

raw_bookings

stg_flight_manife...

stg_flight_manife...

enriched_flight_d...

Add to Dataset

New Dataset

Name

Route Performance & Load Factor Summary

Description

This dataset contains high-level, aggregated performance metrics for every flight route, updated daily. Its primary key Performance Indicator (KPI) is the Load Factor, which measures the operational efficiency of each route.

Tags

Add tags to your dataset for context and subsequent lookup.

Revenue Management

Business Performance

Aggregated

Summary

KPI

Analytics

Anonymized

Internal

Certified

Flight Operations

Public

Create

Cancel

29

There are instances, where there are no datasets present or the user just wants to create a new dataset to add the asset. In that case, the user can click on the New Dataset button which opens up a new dataset form. Once the user fills in the form and clicks on the Create button, a new dataset with the given properties is created and the asset is added to it automatically. This is reflected in the datasets list where the newly added dataset is highlighted.

The screenshot shows the 'Asset Details' page for the asset 'agg_route_performance'. The page includes a 'Properties' section with details like Type (ICEBERG TABLE), # of Columns (4), Data Lake (cloudera-catalog-hue-lake-4), Datasets (1), Owner, Created On, Last Updated At, Table Type (EXTERNAL_TABLE), Database (airline_operations), DB Catalog (cm), and Parent (airline_operations). It also has a 'Classifications' section with 'Flight Operations : Daily, Load Factor Analysis, Reservations (Sa...)' and a 'Terms' section with '+ Add Terms'. The 'Overview' tab is selected, showing a 'Lineage' diagram. A modal 'Add to Dataset' is open on the right, showing a list of datasets: 'Detailed Flight Manifests' (2) and 'Route Performance & Load Factor Summary' (1). The 'Route Performance & Load Factor Summary' dataset is selected. A green notification at the top right says 'Add asset to datasets completed'.

Viewing Atlas entity audits

Atlas audits help Data Stewards to identify and track the entity changes or modifications that are performed over a period of time.

Information about the Apache Atlas entity audit events are displayed for each entity in the **Asset Details**. Using this information, Data Stewards can distinguish between entity audits and data audits that originate from Ranger.

On the **Asset Details** page, the **Metadata Audits** tab displays information related to the selected entity type and about the events that occurred based on the user activities.

The screenshot shows the 'Metadata Audits' tab selected in the 'Asset Details' page. The tabs are 'Overview', 'Schema', 'Metadata Audits', 'Policy', and 'Access Audits'. The 'Metadata Audits' tab is highlighted with a blue underline.

Clicking on **Metadata Audits**, tab, you can view manage information about:

- The user who made the changes to the specific entity
 - Users also include the profilers
- The time when the entity was changed
- The kind of change that was made to the entity
 - For example, adding comments, descriptions and the entity itself being created

- Any other relevant changes pertaining to the audit entries

The changes that can be identified for:

- Created entities and related updates
- Tagged entities
- Labeled entities
- Export and Import operations

For example, the following image displays the Atlas audit entity creation event that is recorded by each Atlas entity that is displayed in the **Asset Details** page.

a

Data Catalog / Asset Details

ATLAS_ENTITY_AUDIT_EVENTS

Atlas

Properties

Type: HBASE TABLE

Data Lake:

Owner: atlas

Created On: Wed Apr 07 2021 10:50:42 GMT+0530 (India Standard Time)

Modified Time: Wed Apr 07 2021 10:50:42 GMT+0530 (India Standard Time)

Namespace GUID: f4658406-3a4b-4076-afb0-6e74745934b6

URI: ATLAS_ENTITY_AUDIT_EVENTS

Parent: default

Qualified Name

default:ATLAS_ENTITY_AUDIT_EVE ...

Description

ATLAS_ENTITY_AUDIT_EVENTS

Classifications

Managed

System

Propagated

+ Add Classification

Terms

+ Add Terms

Overview

Schema

Metadata Audits

Policy

Access Audits

User

Timestamp

Actions

atlas

Wed Apr 07 2021 10:50:48 GMT+0530 (India Standard Time)

Entity created

Clicking on any line item displays the change in JSON format, which is directly derived from Atlas. For example, adding an Atlas glossary term:

Asset Details

OverviewSchemaMetadata AuditsPolicyAccess Audits

User	Timestamp	Actions
dpProfiler	09/04/2024 08:01 PM CEST	Entity updated
dpProfiler	09/03/2024 02:01 PM CEST	Entity updated
dpProfiler	08/31/2024 02:01 PM CEST	Entity updated
dpProfiler	08/30/2024 08:01 AM CEST	Entity updated
dpProfiler	08/29/2024 02:01 AM CEST	Entity updated
csso_	08/28/2024 07:46 PM CEST	Entity updated
Updated: { "typeName": "hive_table", "attributes": { "comment": "Test comment by developer" }, "guid": "ca902173-...", "isIncomplete": false, "provenanceType": 0, "version": 0, "proxy": false }		
csso_	08/28/2024 07:37 PM CEST	Entity updated
csso_	08/28/2024 07:20 PM CEST	Term added
dpProfiler	08/27/2024 08:01 PM CEST	Entity updated
hive	08/27/2024 02:12 PM CEST	Entity created

Rows per page: 101 - 10 of many

Use the toggle icon (on the top-right corner) for viewing Atlas audits in different formats. By default, you can view the audits in tabular format. When you toggle the view icon, you can view the **Timeline** format.

Data Catalog / Asset Details

ATLAS_ENTITY_AUDIT_EVENTSAtlas

Properties

Type: HBASE TABLE

Data Lake:

Owner: atlas

Created On: Wed Apr 07 2021 10:50:42 GMT+0530 (India Standard Time)

Modified Time: Wed Apr 07 2021 10:50:42 GMT+0530 (India Standard Time)

Namespace GUID: f4658406-3a4b-4076-afb0-6e74745934b6

URI: ATLAS_ENTITY_AUDIT_EVENTS

Parent: default

Qualified Name

default:ATLAS_ENTITY_AUDIT_EVE ...

Description

ATLAS_ENTITY_AUDIT_EVENTS

Classifications

Managed

System

Propagated

+ Add Classification

Terms

+ Add Terms

OverviewSchemaMetadata AuditsPolicyAccess Audits

Timeline

Wed Apr 07 2021 10:50:48 GMT+0530 (India Standard Time)

atlas

Entity created

Clicking on a user in the **Timeline** format displays the JSON data.

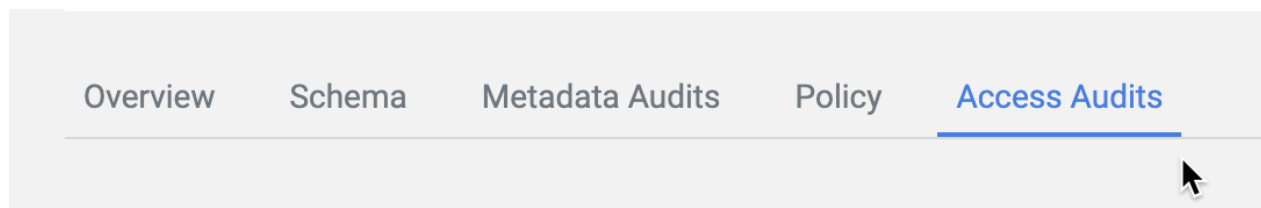
32

Viewing Ranger access audits

Apache Ranger audits help Data Stewards to identify and track the policies affecting the Apache Atlas entities over a period of time. More specifically, the accesses and the relevant policies can be also identified.

Information about the Apache Ranger policy audit events are displayed for each entity in the **Asset Details**. Using this information, Data Stewards can distinguish between policies originating from Ranger to have an overview of all users accessing (or being prevented from accessing) an entity. They can also use this to troubleshoot access issues.

On the **Asset Details** page, the **Access Audits** tab displays information related to the selected entity type and about the events that occurred based on the user activities trying to access the entity.



Clicking on **Access Audits** tab, you can view manage information about:

- The relevant Ranger policy ID
- The time when the entity access was attempted
- The user who accessed the specific entity (or was being barred from accessing it)



Note: Users also include the profilers.

- The resource type accessed
- The access type
 - For example, by Hive entities the following filter options are available
 - SELECT
 - UPDATE
 - CREATE
 - DROP
 - ALTER
 - INDEX
 - READ
 - WRITE
- The access attempt result
 - ALL
 - ALLOWED
 - DENIED
- The client IP

The accesses can be identified for:

- Created entities and related updates
- Tagged entities
- Labeled entities

For example, the following image displays the entity creation event recorded for a Hive table:

Access Type: ALLResult: ALL

Policy ID	Event Time	User	Resource Type	Access Type	Result	Access Enforcer	Client IP
9	01/01/1970 01:00 AM CEST	hive	@table	CREATE	ALLOWED	ranger-acl	10.80.214.142
9	01/01/1970 01:00 AM CEST	hive	@table	DROP	ALLOWED	ranger-acl	10.80.214.142
9	01/01/1970 01:00 AM CEST	hive	@table	CREATE	ALLOWED	ranger-acl	10.80.214.142

Note: If you click an event row, you can see an overview of the users set for that policy including the set permissions.

Policy Details Based On Versions: 1Select

Policy Id : 9

Policy Name : all - database, table, column

Policy Labels : --

Service Type : hive

Policy Type : Access

Policy Version : 1

Tag : --

Service Name : cm_hive

Create Time : 07/14/2024 10:36 PM CEST

Update Time : 07/14/2024 10:36 PM CEST

Created By : Admin

Updated By : Admin

ALLOW CONDITIONS :

USERS

hive beacon trino dpprofiler hue admin impala rangerlookup {OWNER} hdfs

GROUPS

_c_ranger_admins_2af99bc8

PERMISSIONS

select update create drop alter index lock all read write repladmin serviceadmin tempudfadmin refresh rwstorage read select all all

Close

Viewing Ranger policies

Apache Ranger audits help Data Stewards to identify and track the policies affecting the Apache Atlas entities. In Asset Details Policy , you can have an overview of the Ranger policies currently affecting the selected entity.

OverviewSchemaMetadata AuditsPolicyAccess Audits

Resource Based Policies

Policy ID	Policy Name	Status	Audit Logging	Group	Users
9	all - database, table, column	ENABLED	ENABLED	_c_ranger_admins_2af99bc8	hive, beacon, trino, dpprofiler, hue, a...
10	all - database, table	ENABLED	ENABLED	_c_ranger_admins_2af99bc8	hive, beacon, trino, dpprofiler, hue, a...

Tag Based Policies

Policy ID	Policy Name	Tags	Status	Audit Logging	Group	Users
123	Test Tag policy	test_tag_for_provider_summary	ENABLED	ENABLED		

By clicking the Policy ID, you can directly open the relevant policy in Ranger for editing.

Accessing tables based on Ranger policies

When a table (in blue color link) is clicked in Search results, the Asset Details view page is displayed. If a user is not authorized to click or view table details, it implies that the user permissions have not been set up in the Apache Ranger.

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Edit Policy

Last Response Time
10/31/2023 05:00:08 PM

Service Manager

>

cm_atlas Policies

>

Edit Policy

Policy Details

Policy Type

Access

ⓘ

Add Validity Period

Policy ID*

81

Policy Name*

rs_test

Enabled

Normal

Policy Label

Select...

Entity Type

hive_table

hbase_table

Include

Entity Classification*

rs_test

Include

Entity ID*

x

Include

None

Select...

Description

Audit Logging*

Yes

Allow Conditions:

hide

Select Roles

Select Groups

Select Users

Permissions

Delegate Admin

Select...

Select...

Select...

Add Permissions

Cloudera Data Catalog

Dashboard

Search

Datasets

Bookmarks

Profilers

Atlas Tags

Help

hrt_e2e_admin

1.5.2-b126

Asset Details

Authorization Unsuccessful. Contact Admin(Error Code - 403)

List properties for entity request failed Error from Atlas. Forbidden : Received 403. Body {"errorCode":"ATLAS-403-00-001","errorMessage":"hrt_e2e_admin is not authorized to perform read entity: guid=ce70cd53-891e-46d0-a43e-caf7f87927a9"}.

Related Information

[Providing role access](#)

[Ranger Policies Overview](#)

[Resource-based Services and Policies](#)

[Configuring resource-based policies](#)

[Missing authorization for viewing assets](#)

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