Cloudera Runtime 7.0.0

Atlas Search

Date published: 2019-08-21
Date modified:

CLOUDERA

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Contents

Searching overview

Search using any metadata text, by entity type, classification, or glossary term.

You can search for entities using four search modes:

- Free text from all metadata
- By entity type, with refinements by classification, term, or text
- By tag or "classification"
- By glossary term
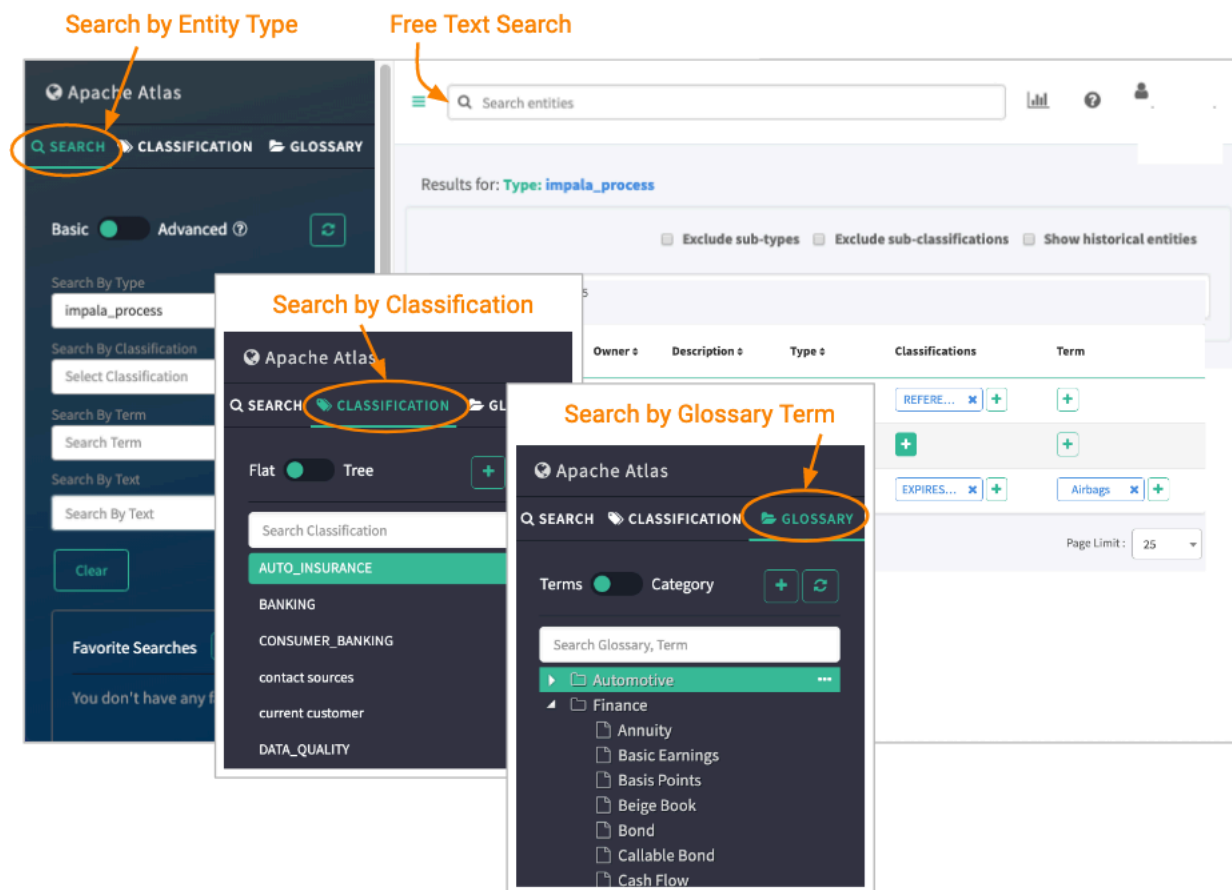
Related Information
Searching for entities using terms

Using Basic Search

Search using an entity type in Basic Search.

With Basic Search, Atlas returns all of the entities of the type you select. There are many ways you can refine a Basic Search:

- By attribute values
- By classifications
- By classification attribute values
- By terms

You can also save these searches when they are useful to run more than once.

Related Information
Searching for entities using terms
Searching for entities using classifications
Saving searches

Using Free-text Search

Apache Atlas builds a ranked index of metadata values so you can search for values across all metadata.

The search field in the top of the dashboard lets you search for entities, classifications, or terms by entering any full or partial text to match any entity metadata values. Atlas searches all metadata fields that have string data types, so you can use this search tool to find entities by their descriptions, locations, or other metadata.

Searches are case insensitive. Searches append the asterisk (*) wildcard to the search term or terms so that the search behavior is to find partial strings anywhere they occur in the metadata value.
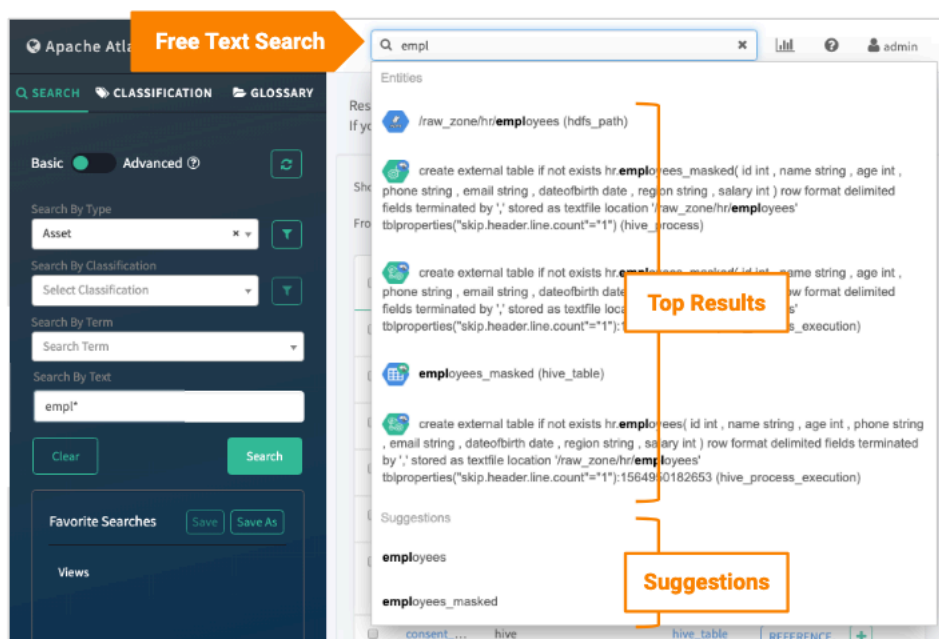
You can see that the search terms you use in the search at the top of the dashboard are also inserted into the free text search field in the left Search panel: you can combine the free text search with other selections to narrow the search results. The combination acts as an "AND" with other search criteria.

Search result ordering: The search results are ranked by how well they match the search terms, with entities that match on more than one metadata value being ranked higher.

Different metadata have different scores, where the highest scoring metadata fields are entity names, including Kafka topic names. Descriptions, users/owners, query text, and comments rank next. Locations, namespaces, domains, etc. come next. Search results are not ordered in any specific way among results that have the same search ranking.

Suggestions: As you enter your search text, you see the five highest-ranked matching items and as many as five suggestions.

The matching items are ranked in the same way as the general search results, case-sensitive (at the moment) terms that "contain" the search terms; If there are more than five search results with the same search ranking, the five shown are randomly ordered from the highest scoring results.

The suggested items are chosen from search results that match with a "starts with" behavior.

Saving searches

Saving a search saves the search criteria with a name that will help you remember what the search returns.

After you run a search, you can save it under a name in the list of Favorites. Here's what you can do to save a search and to use a search you've already saved:
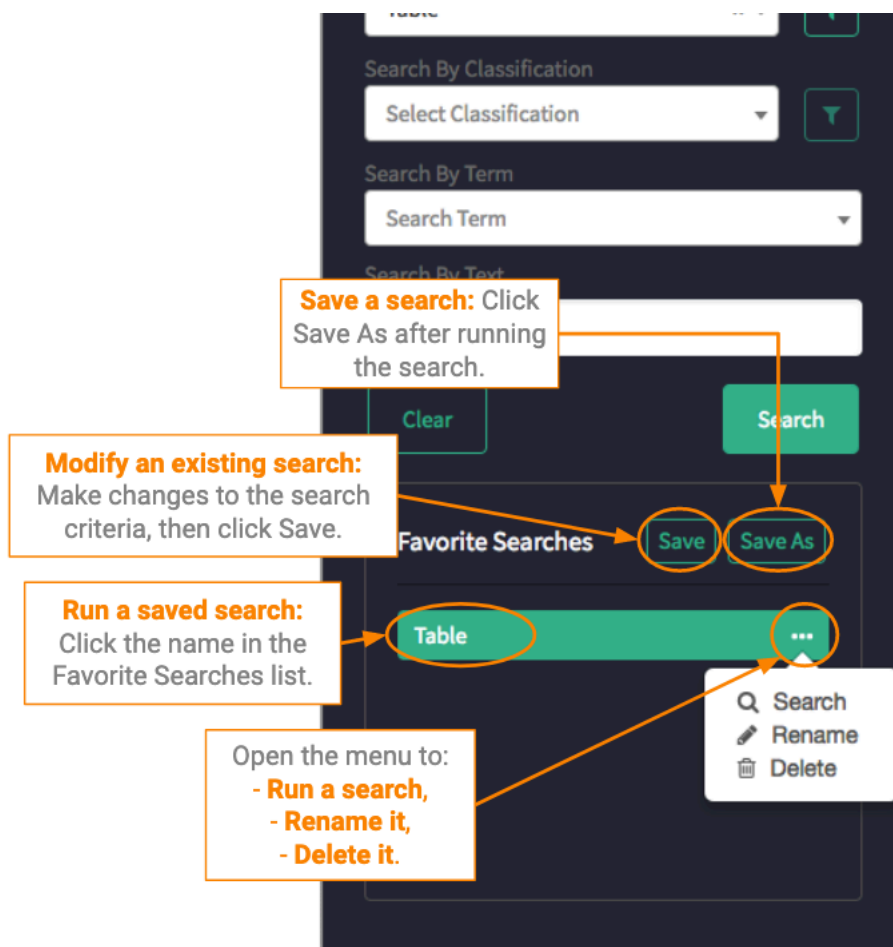
Using advanced search

Apache Atlas advanced search lets you use a query language to combine criteria and refine search results.

Advanced search gives you more control over search criteria through the Atlas domain-specific query language.

In the left navigator pane, Search tab, switch to Advanced search mode by sliding the green toggle button from Basic to Advanced.

Here are some examples of refining search results using advanced search queries:

- Search for partial names

```
from hive_table where name LIKE '*_dim'
```

- Search in date ranges

```
from hive_table where createTime > '2019-01-01' and createTime < '2019-0
1-03'
```

- Search for multiple criteria

```
from hdfs_path where isFile = true and name = "Invoice"
```

- Return specific metadata

```
from hive_table where name = 'customer_dim' select owner, name,
        qualifiedName, createTime
```

- Search for entities with classifications

```
from hive_table where hive_table isa Dimension select owner, name, quali
fiedName
```

See the advanced search reference for information about the query language and for more examples.

Related Information

Apache Atlas Advanced Search language Reference