

## Accessing Data

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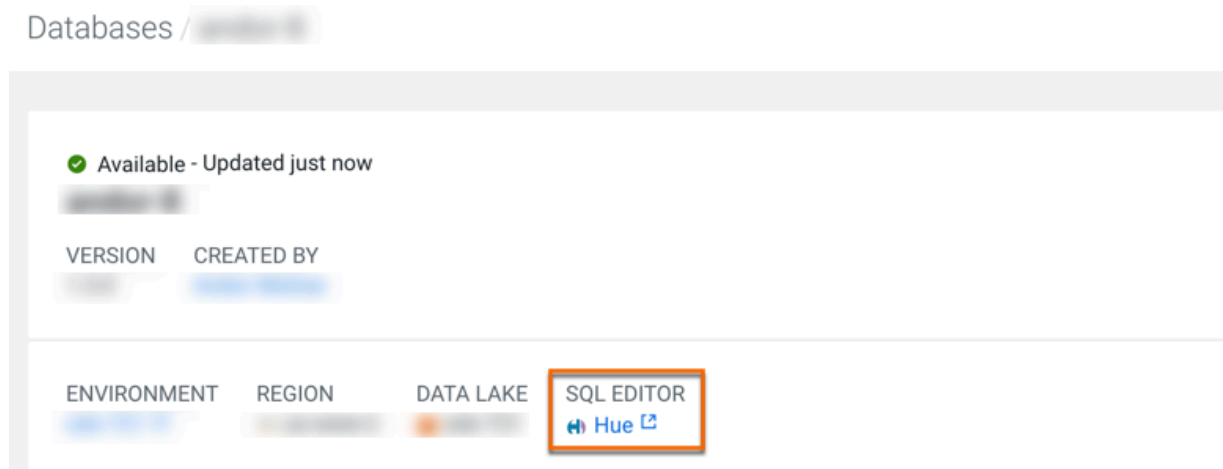
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## Accessing Hue from COD

Hue is a web-based interactive SQL editor that enables you to interact with data stored in Cloudera Operational Database (COD). You can access the Hue user interface from the COD web user interface to create and browse HBase tables.

### Procedure

1. Click Databases, and then select a database from the list.
2. Click Hue.



### Example

You can use Hue to quickly browse large tables, create new tables, add data, modify existing cells, and also filter data using the auto-complete search.

default

Tables

(8)

Filter...

customers

hbase\_table\_1

hbase\_table\_2

key (int)

value (string)

hbase\_table\_3

sample\_07

sample\_08

transactions1g

web\_logs

Home - HBase / aaa

Switch Cluster

row\_key, row\_prefix + scan\_len [col1, family:col2, fam3:, col...

Filter Columns/Families

All

Sort By ASC

1

Filter Column Names/Family

Sort By ASC

Drop Columns

cf1: val

cf1: purchase

Krishna

12

100

cf1: name

cf1: purchase

Eva

1000

3

cf1: name

Anna

Fetches 10 entries starting from null in 13.397 seconds.

Drop Rows

Bulk Upload

New Row

```
1 INVALIDATE METADATA;
2 SELECT * FROM my_hbase_table WHERE rowkey='abcd';
3
```

Query 47a70eda3960db:bdbef23600000000: 0% Complete (0 out of 1)

47a70eda3960db:bdbef23600000000

Query History

Saved Queries

Results (1)

rowkey	value
1 abcd	my value 1

Related Information

- [Hue Overview](#)
- [Using Hue](#)
- [Use the Hue HBase app](#)

## Accessing HBase REST API from COD

You can use the Apache HBase REST server to interact with Cloudera Operational Database (COD). Interactions happen using URLs and the REST API. REST uses HTTP to perform various actions, and this makes it easy to interface with COD using a wide range of programming languages.

### Procedure

1. Click Databases, and then select a database from the list.
2. Click **Connect HBase REST**.
3. From the HBase REST Server URL field, copy the URL to the HBase REST Server to connect to the selected database.

The screenshot shows the 'Connect' tab in the COD interface. Under the 'HBase' sub-tab, the 'HBase REST' option is selected. The page contains several configuration fields, each with a copy icon:

- Usage**: A text block explaining that users can use the Apache HBase Maven URL, Apache HBase Client Version, and the Apache HBase Client Configuration URL to download a file containing the Apache HBase Client Configuration.
- HBase Maven URL**: A text input field with a copy icon.
- HBase Client Version**: A text input field with a copy icon.
- HBase Client Configuration URL**: A text input field with a copy icon.
- Kerberos Configuration**: A section header with a dropdown arrow.
- Kerberos Realm**: A text input field with a copy icon.
- KDC Host**: A text input field with a copy icon.
- Krb5.conf**: A text input field with a copy icon.

### What to do next

Use the HBase REST API to interact with the HBase services, tables, and regions using HTTP endpoints. You can create tables, delete tables, and perform other operations that have the REST endpoints. For more information, see *Using the HBase REST API* using the link in the related information section.

### Related Information

[Use the HBase REST server](#)

[Using the REST API](#)

## Accessing SQLLine from COD

SQLLine is a command-line utility included with Cloudera Operational Database (COD) that enables you to connect and execute SQL commands using Phoenix from an edge node.

### Procedure

1. Download the client JAR files for your thick or thin clients using this URL syntax.

You can get the `***Phoenix Maven URL***`, `***Phoenix_(Thin)_Client_Version***`, and the `***Phoenix_(Thick)_Client_Version***` information from the Database connectivity page. The URL is in the following format:

URL for the Phoenix thick client in Cloudera Runtime 7.2.9 (environment) and higher:

```
[***Phoenix MAVEN URL***]/org/apache/phoenix/phoenix-client-hbase-2.2/[***Phoenix THICK CLIENT VERSION***]/phoenix-client-hbase-2.2-[***Phoenix THICK CLIENT VERSION***].jar
```

URL for the Phoenix thick client in Cloudera Runtime 7.2.8 (environment) and lower:

```
[***Phoenix MAVEN URL***]/org/apache/phoenix/phoenix-client/[***Phoenix THICK CLIENT VERSION***]/phoenix-client-[***Phoenix THICK CLIENT VERSION***].jar
```

For the Phoenix thin client:

```
[***Phoenix MAVEN URL***]/org/apache/phoenix/phoenix-queryserver-client/[***Phoenix THIN CLIENT VERSION***]/phoenix-queryserver-client-[***Phoenix THIN CLIENT VERSION***].jar
```

**Connect**   Charts   Events

HBase   HBase REST   HBase Client Tarball   **Phoenix (Thick)**   Phoenix (Thin)   Phoenix (ODBC)   Phoenix Python

**Usage** ⓘ  
The Apache Phoenix Thick driver communicates directly with Apache ZooKeeper and Apache HBase. You can connect your application to the COD instance using the provided connection and configuration URLs.

Phoenix (Thick) Client Jar ⓘ  
[Download Phoenix Client Jar](#)

Phoenix Maven URL ⓘ ←

Phoenix (Thick) Client Version ⓘ ←

Phoenix (Thick) JDBC URL ⓘ

> [Kerberos Configuration](#)

You can use Maven to download the Phoenix client JAR files. If you only need the JAR files for SQLLine connection, you can use the curl tool to download the JAR files using the following command:

```
curl -L -f -o "phoenix-client.jar" "[***PHOENIX CLIENT JAR FILE URL***]"
```

- From the Databases page, download HBase client configuration Zip file using the client configuration URL .



**Note:** You cannot download the client configuration file using a web browser. You must copy and paste the HBase client configuration URL to your CLI to download this file. For example, `curl -f -o "hbase-config.zip" -u "csso_***username***" "https://[***download url***]"`.

The screenshot shows the 'Connect' tab in the COD interface. The 'HBase Client Tarball' option is selected under the 'HBase' category. The 'Usage' section explains that the tarball contains the necessary scripts and JAR files for connecting to the database. Below this, there are three input fields: 'HBase Version', 'Download URL', and 'HBase Client Configuration URL'. An orange arrow points to the 'Download URL' field. At the bottom, there are links for 'Kerberos Configuration', 'Yarn Configuration', and 'JWT Configuration'.

- From the Databases page, copy the JDBC connection URL for the Phoenix (Thick) or Phoenix (Thin) client to use in the next step.
- Run this command from your CLI:

```
java $PHOENIX_OPTS -cp "[***HBase-CONFIGURATION***]:[***PHOENIX-CLIENT-JAR**]"
sqlline.SqlLine -d org.apache.phoenix.jdbc.PhoenixDriver -u
[***JDBC-CONNECTION-URL***] -n none -p none --color=true --fastConnect=
false
--verbose=true --incremental=false --isolation=TRANSACTION_READ_COMMITTED
```

### Related Information

[SQLLine Command Reference](#)