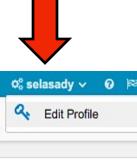
Using the Hue Web Interface

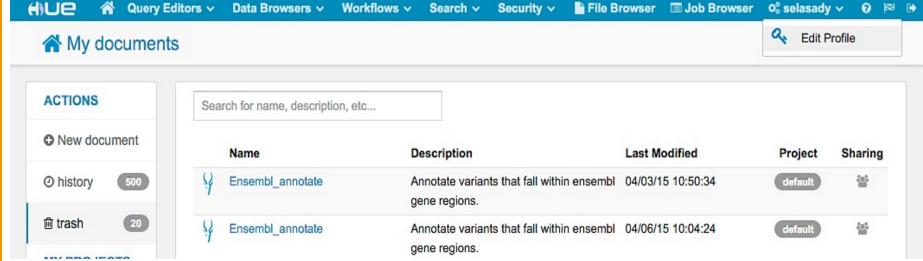
Summer Elasady



Updating Account Info

- Click on your user name
- **Edit Profile**
- Follow the steps to update your password and info

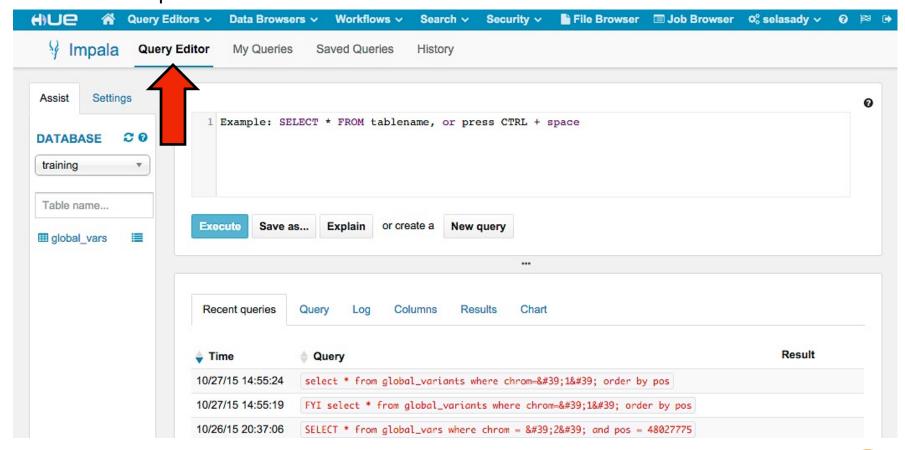






Query Editor- Impala

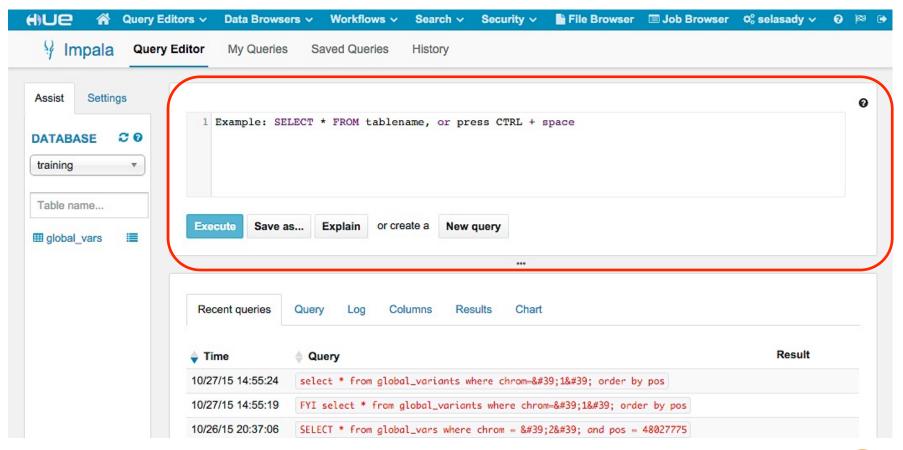
- Click on Query Editor
- Click on impala





Query Editor-Impala

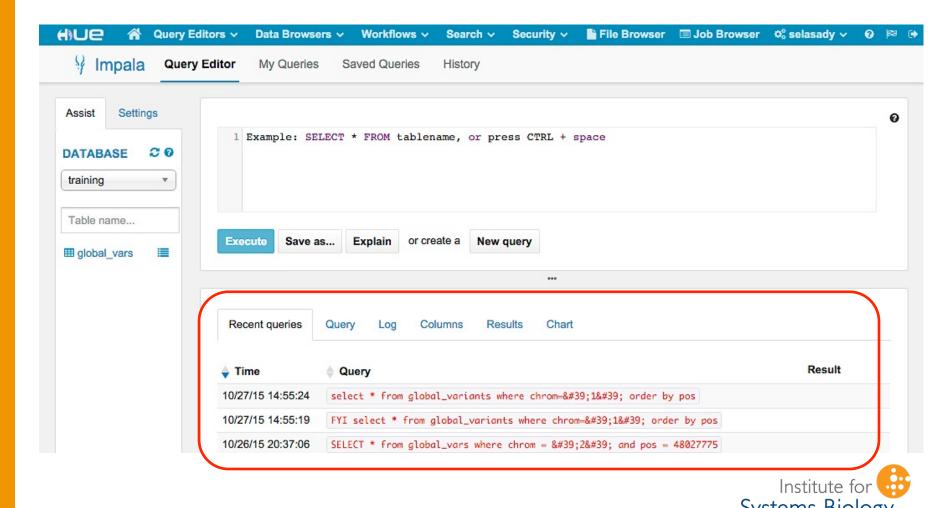
Query window where you write and execute queries





Query Editor-Impala

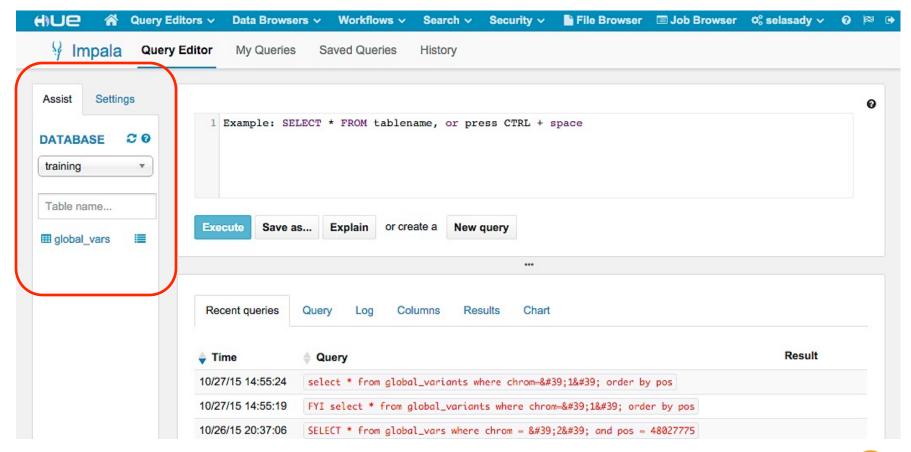
View recent queries and query results



Revolutionizing Science, Enhancing Life,

Selecting and Viewing Database

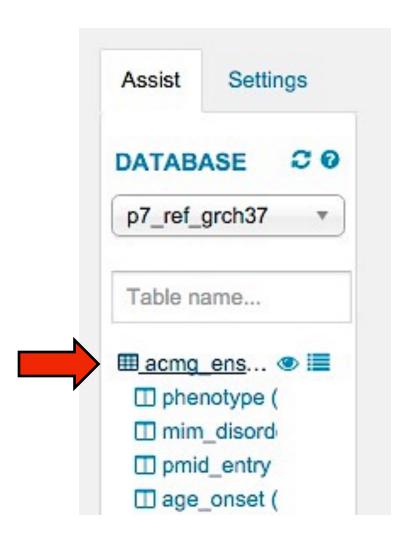
Click on the drop-down menu to view and select databases





View Database Information

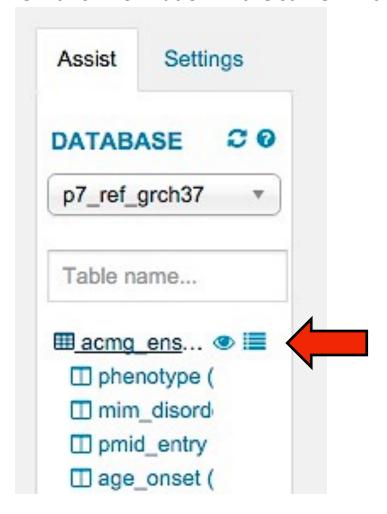
Click on the database icon to view column names and data types





View Database Information

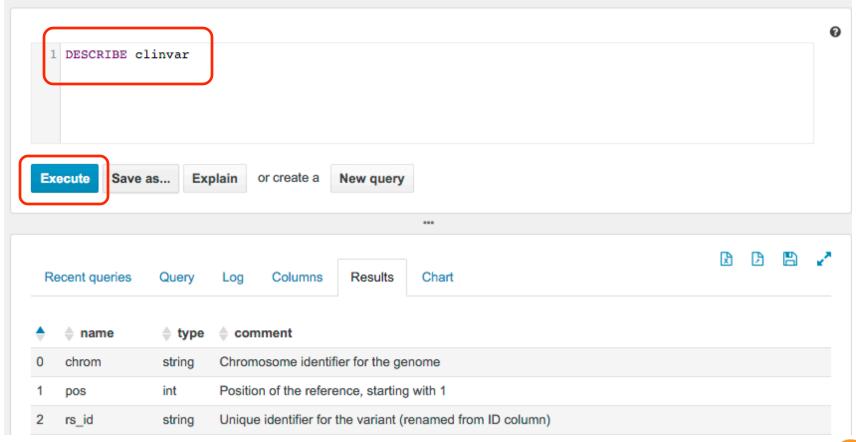
- Click on the eye to view information and a data sample in a new window
- Click on the list icon to view this information in the same window





Describe Database Columns

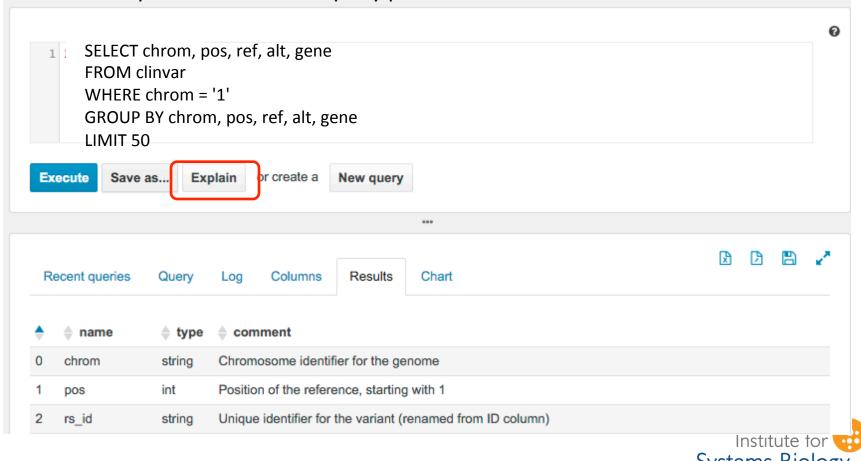
- Type DESECRIBE table_name and click on Execute
- View descriptions of what is in each column





Create a Query

- Select the p7 ref grch37 database
- Enter the query shown
- Click on Explain to review the query plan



Revolutionizing Science. Enhancing Life

Review Explain Plan and Execute Query

- Read in numerical order
- Look for ways to optimize
- Identify bottlenecks
- Click Execute to run the query

Recent queries Query Explanation

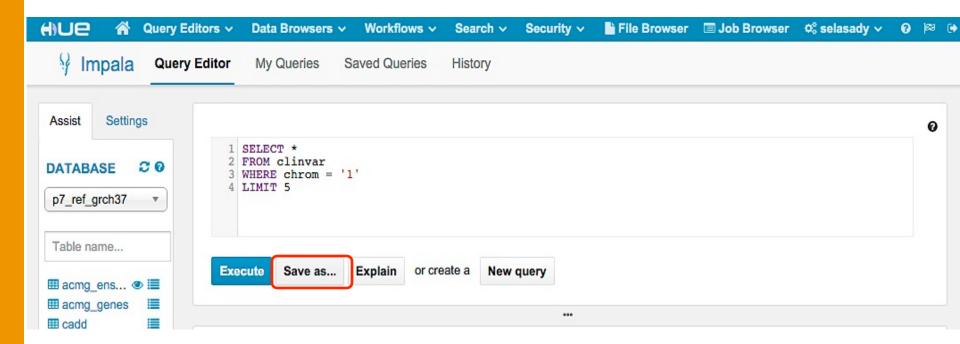
```
Estimated Per-Host Requirements: Memory=90.00MB VCores=2

04:EXCHANGE [UNPARTITIONED]
| limit: 50
|
03:AGGREGATE [FINALIZE]
| group by: chrom, pos, ref, alt, gene
| limit: 50
|
02:EXCHANGE [HASH(chrom,pos,ref,alt,gene)]
|
01:AGGREGATE
| group by: chrom, pos, ref, alt, gene
|
00:SCAN HDFS [p7_ref_grch37.clinvar]
| partitions=1/1 files=1 size=5.41MB
| predicates: chrom = '1'
```



Save Queries

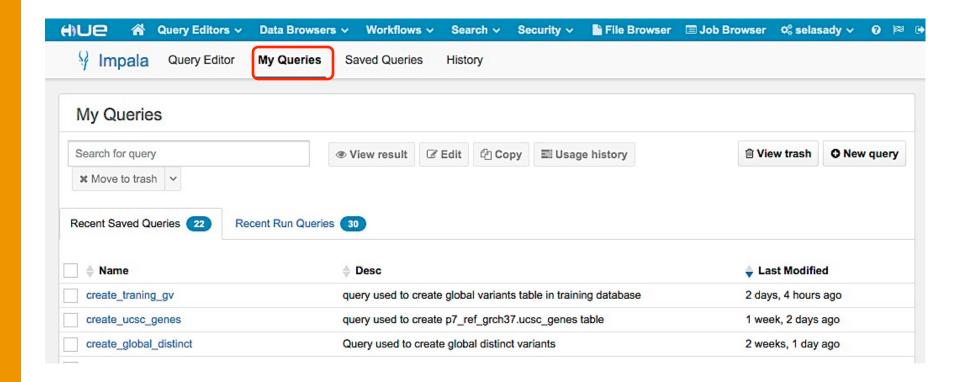
- After executing a query click on Save as
- Give the query a name and description





Run Saved Queries

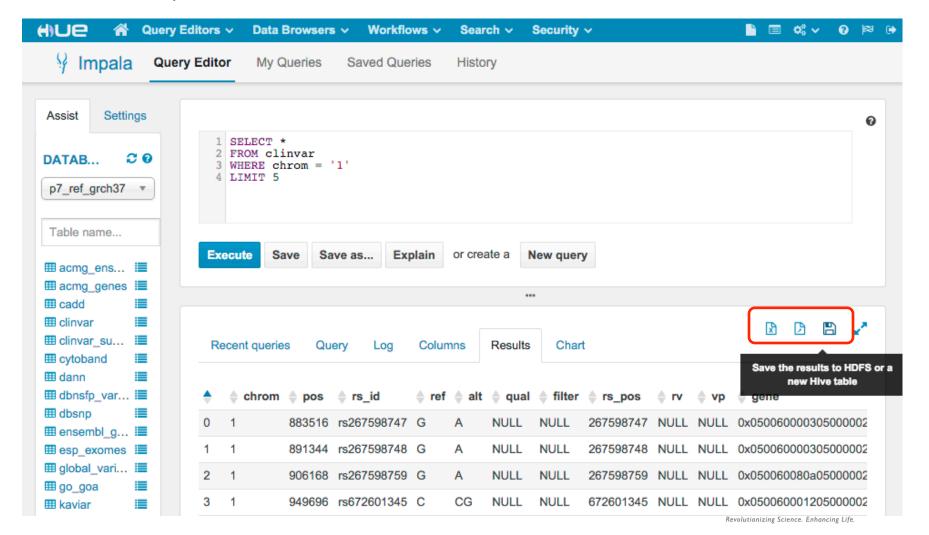
- Click on My Queries to view your saved queries
- Click on the query name to run it in the impala query editor





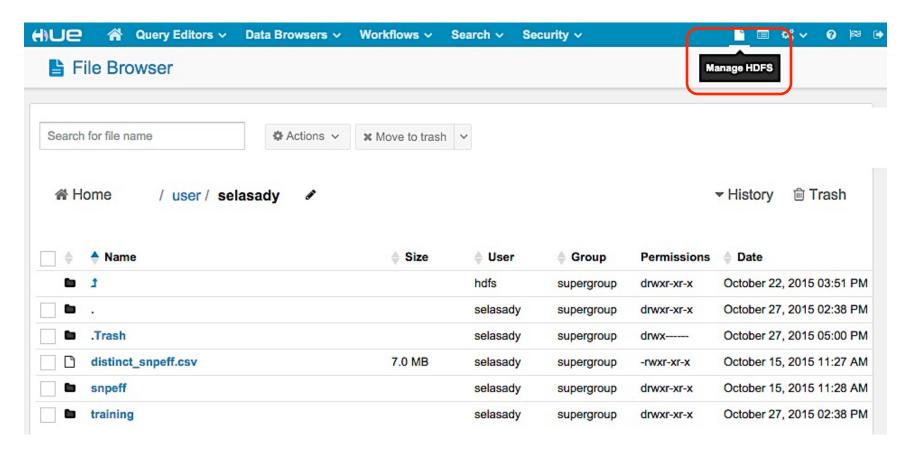
Save Results

 Click on one of the icons shown in the red box to save your results as a table on impala, or to download as a csv or excel file



Working with HDFS

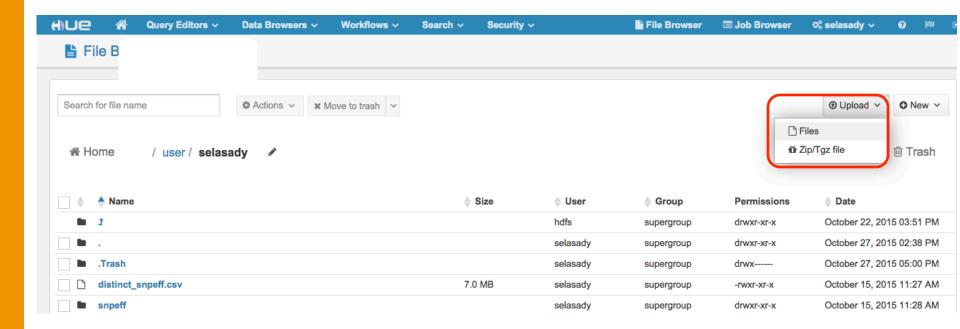
- Click on the file icon
- Click on manage HDFS





Uploading a TSV/CSV to HDFS

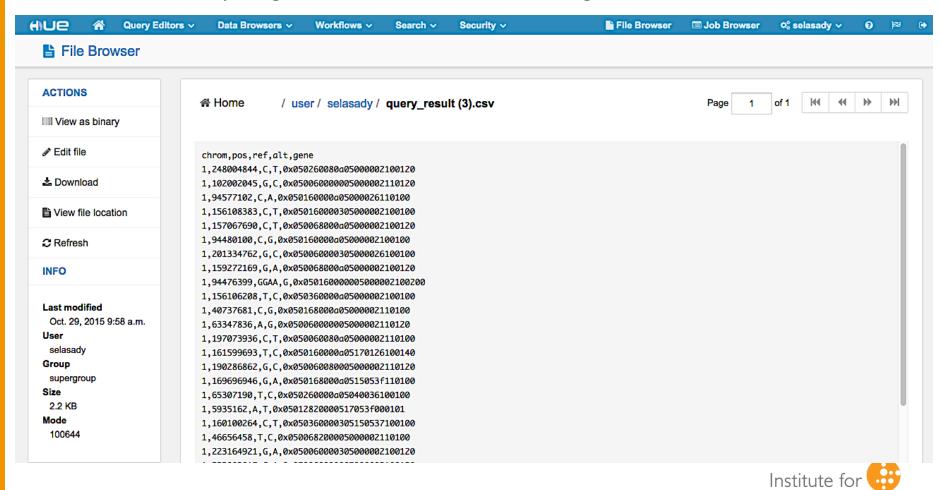
- Click on the file icon
- Click on manage HDFS





Viewing uploaded files

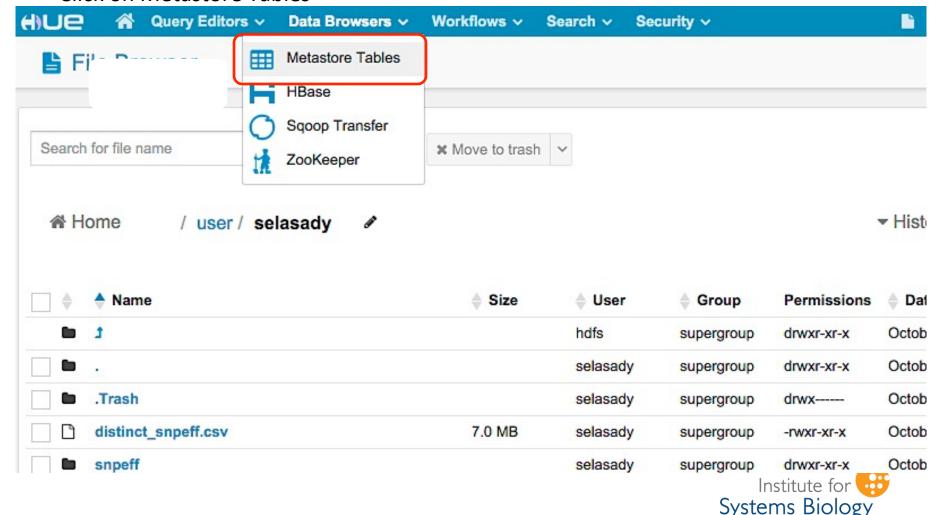
- Once a file is uploaded to HDFS click on that file
- Make sure everything looks correct before converting to a table



Systems Biology
Revolutionizing Science. Enhancing Life.

Converting an HDFS file to a table

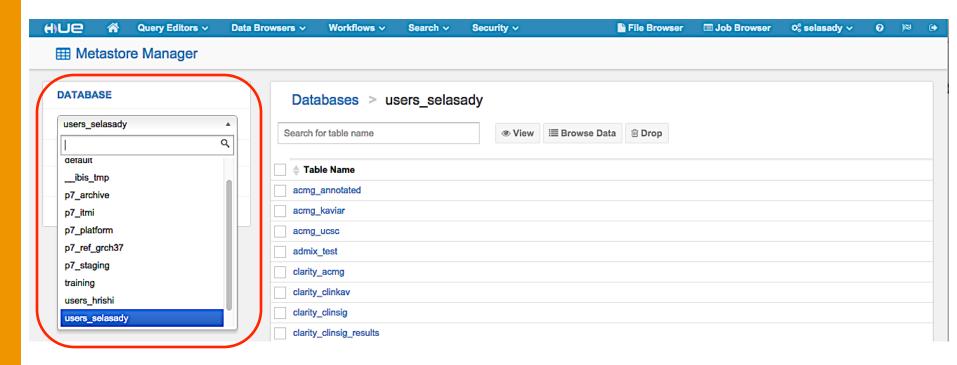
- Once a file has been uploaded to HDFS, click on Data Browses
- Click on Metastore Tables



Revolutionizing Science. Enhancing Life.

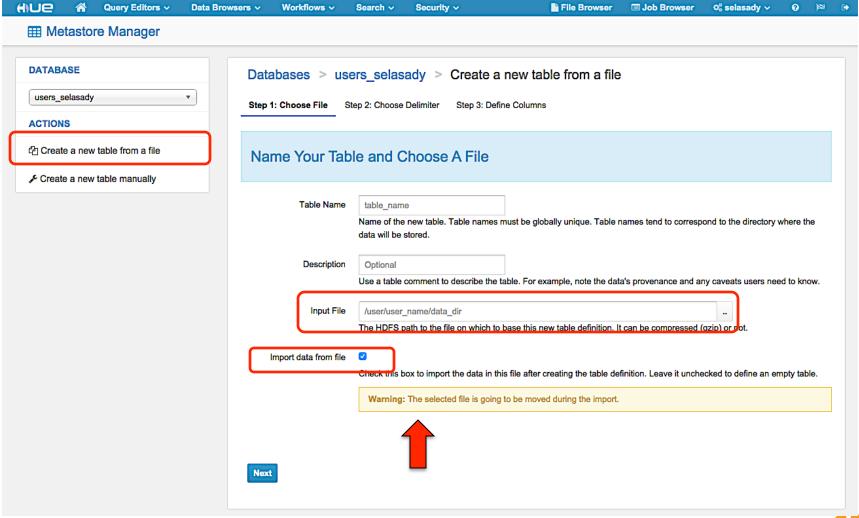
Select a database to place the table

- Click on the file icon
- Click on manage HDFS





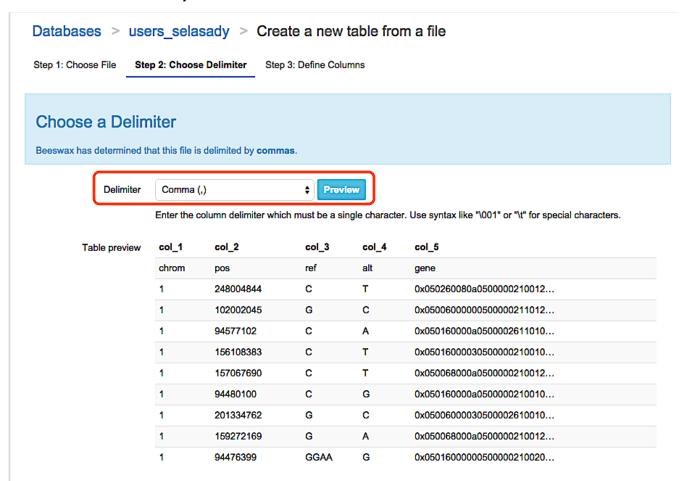
Create a new table from a file





Choose your delimiter

Choose how your file is delimited







Define your columns

Check that the proper data type is selected for each column

