

✓ Terminé

This activity was adapted from another proposed by David Auber, from the Université de Bordeaux

In this lab session, we will only interact with HBase through its shell. To start the interactive HBase shell, use the following command:

```
hbase shell
```

To learn the basics of HBase and its commands, you can look at [this tutorial](#) (but ignore the "Installation part", HBase is already installed in the LSD platform).

- Create a table named as your username, containing the column families loc, name, reg, and measure. (**create**)
- Show the list of tables and the description of your table. (**list**, **describe**)
- Change the parameters of the column family loc so that 5 versions are stored, and that it is kept in memory at the server. (**alter**)
- Add to your table the information from the last line of the worldcitiespop.txt file (manually), using "0" as the key for this line. (**put**) To show the last lines of the file, you can use `hdfs dfs -tail /data/worldcitiespop.txt`
- Show the information stored in the line corresponding to key "0". It should look like this (except for the timestamps): (**get**)

```
COLUMN CELL
loc:x timestamp=1418649413726, value=-20.33
loc:y timestamp=1418649440768, value=30.033
measure:pop timestamp=1418650556013, value=79876
name:short timestamp=1418649756935, value=zv
reg:code timestamp=1418649869255, value=07
reg:country timestamp=1418651236426, value=zv
```

- Modify the values of **loc:x** and **measure:pop** of the line with key "0" (**put**), and then run the following command. Explain the result.

```
get [TABLE NAME], '0', {COLUMN => ['loc', 'measure'], VERSIONS => 5 }
```

- Restore the correct values to your table. (**put**, **delete**)
- Add the contents of another line from the worldcitiespop.txt file (manually). Then show all the contents of the table. (**scan**)
- Use the following command (you'll have to complete it) to run a filter, to show lines of your table according to the value of a certain column.

```
scan [TABLE], {FILTER=>"SingleColumnValueFilter([FAMILY],[COLUMN],=,'binary:[VALUE]')"
```

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