InfluxDB sample queries

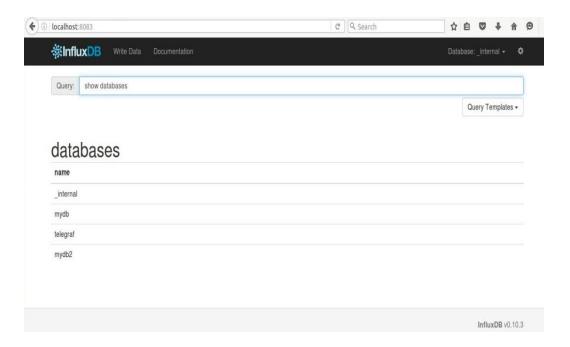
1. How to connect InfluxDB?

We can connect to InfluxDb in a two ways.

- Using command line interface:

```
guamaral@guamaral-pc:~$ influx
Visit https://enterprise.influxdata.com to register for
  updates, InfluxDB server management, and monitoring.
Connected to http://localhost:8086 version 0.10.3
InfluxDB shell 0.10.3
>
```

- admin user interface



2. Creating a database

```
guamaral@guamaral-pc:~$ influx
Visit https://enterprise.influxdata.com to register for updates, InfluxDB server
 management, and monitoring.
Connected to http://localhost:8086 version 0.10.3
InfluxDB shell 0.10.3
> create database mydb
> show databases
name: databases
name
internal
telegraf
NOAA_water_database
mydb
> use my db
Could not parse database name from "use my db".
> use mydb
Using database mydb
```

3. Writing from command line interface

```
guamaral@guamaral-pc:~$ influx
Visit https://enterprise.influxdata.com to register for updates,
InfluxDB server management, and monitoring.
Connected to http://localhost:8086 version 0.10.3
InfluxDB shell 0.10.3
> use NOAA water database
Using database NOAA water database
> insert h2o_quality,location=coyote_creek,randtag=1 index=200 1
434055562000000000
> select * from h2o_quality where index=200
name: h2o quality
time
                        index
                                location
                                                 randtag
1434055562000000000
                        200
                                coyote_creek
```

4. Writing data using http-api

```
guamaral@guamaral-pc:~$ curl -i -XPOST 'http://localhost:8086/write?db=NOAA
_water_database' --data-binary 'h2o_quality,location=santa_monica,randtag=3
index=201 14340555620000000000'
HTTP/1.1 204 No Content
Request-Id: 5c30a1a0-fcb0-11e5-8198-000000000000
X-Influxdb-Version: 0.10.3
Date: Thu, 07 Apr 2016 11:03:29 GMT
guamaral@guamaral-pc:~$ influx
Visit https://enterprise.influxdata.com to register for updates, InfluxDB s
erver management, and monitoring.
Connected to http://localhost:8086 version 0.10.3
InfluxDB shell 0.10.3
> use NOAA_water_database
Using database NOAA_water_database
> select * from h2o_quality where index=201
name: h2o_quality
time
                        index
                                location
                                                 randtag
1434055562000000000
                        201
                                santa monica
```

4. Quering data using http-api

```
guamaral@guamaral-pc:~$ curl -G 'http://localhost:8086/query?pretty=true' -
-data-urlencode "db=NOAA_water_database" --data-urlencode "q=SELECT * FROM
h2o_quality WHERE location='coyote_creek' limit 2"
      "results": [
                   "series": [
                         {
                                "name": "h2o_quality",
"columns": [
"time",
                                      "index"
                                      "location",
                                      "randtag"
                                ],
"values": [
                                             "2015-06-11T20:46:02Z",
                                            200,
                                             "coyote_creek",
                                      ],
                                             "2015-08-18T00:00:00Z",
                                             41,
                                            "coyote_creek",
                                      1
                               1
                         )
guamaral@guamaral-pc:~$
```

5. Continuous query:

```
guamaral@guamaral-pc:~$ influx
Visit https://enterprise.influxdata.com to register for updates, InfluxDB server man
agement, and monitoring.
Connected to http://localhost:8086 version 0.10.3
InfluxDB shell 0.10.3
> use telegraf
Using database telegraf
> CREATE CONTINUOUS QUERY mean memory ON telegraf RESAMPLE EVERY 1m BEGIN SELECT med
ian(buffered) as buffered_median, mean(free) as free_mean INTO mem_copy FROM mem GRO
UP BY time(2m) END
> show continuous queries
name: _internal
name
        query
name: telegraf
name
                query
                CREATE CONTINUOUS QUERY mean_memory ON telegraf RESAMPLE EVERY 1m BE
mean memory
GIN SELECT median(buffered) AS buffered_median, mean(free) AS free_mean INTO telegra
f."default".mem_copy FROM telegraf."default".mem GROUP BY time(2m) END
name: NOAA_water_database
        query
name
> select * from mem_copy
name: mem copy
                        buffered median free_mean
time
1460068320000000000
                        7.8901248e+07
                                       4.179298986666667e+08
```

6. Retention policy:

```
guamaral@guamaral-pc:~$ influx
Visit https://enterprise.influxdata.com to register for updates, InfluxDB server management, and monitoring.
Connected to http://localhost:8086 version 0.10.3
InfluxDB shell 0.10.3
> use telegraf
Using database telegraf
> CREATE RETENTION POLICY one_day ON telegraf DURATION 1d REPLICATION 1 DEFAULT
> show retention policies on telegraf
                                replicaN
name
                duration
                                                default
default
                0
                                                false
two day
                48h0m0s
                                                false
three_day
                72h0m0s
                                                false
                24h0m0s
one_day
                                                true
```