

### "My journey as a ClickHouse beginner"

By: Tsvetan Stoychev

#### About me / hobbies



I love to walk with Lucky



I do street art

#### About me / work

I work at

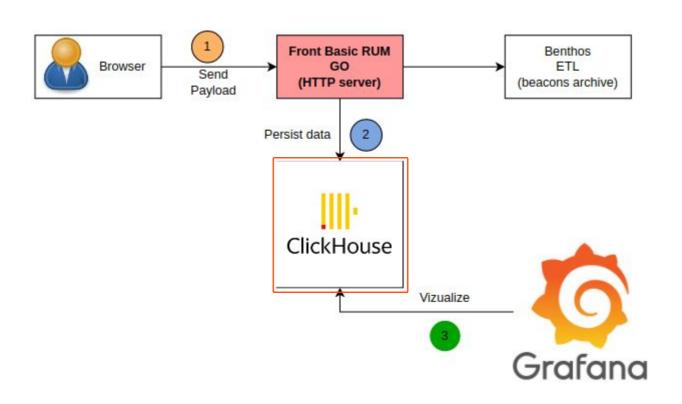
I use ClickHouse for





a hobby project

# Basic RUM in general



### I am a ClickHouse

Script Kiddie



# Script kiddie

 "A script kiddie, skiddie, or skid is a relatively unskilled individual who uses scripts or programs, such as a web shell, developed by others to attack computer systems and networks and deface websites, according to the programming and hacking cultures."

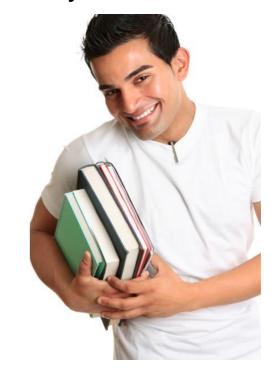
Wikipedia



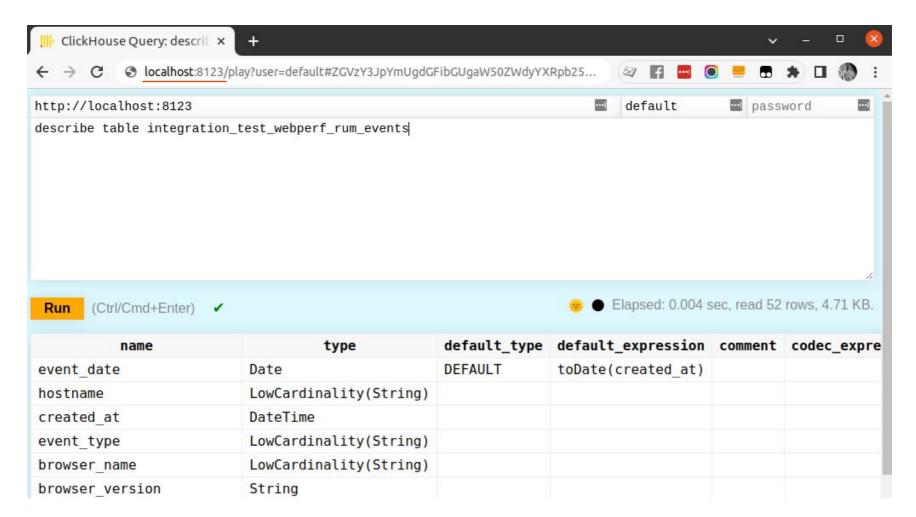
### What I need as ClickHouse beginner?

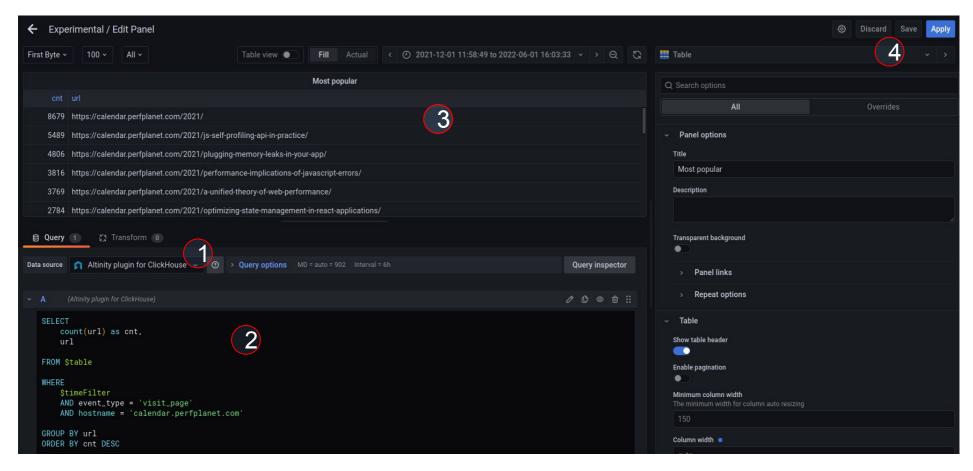
(1) Playground for experiments



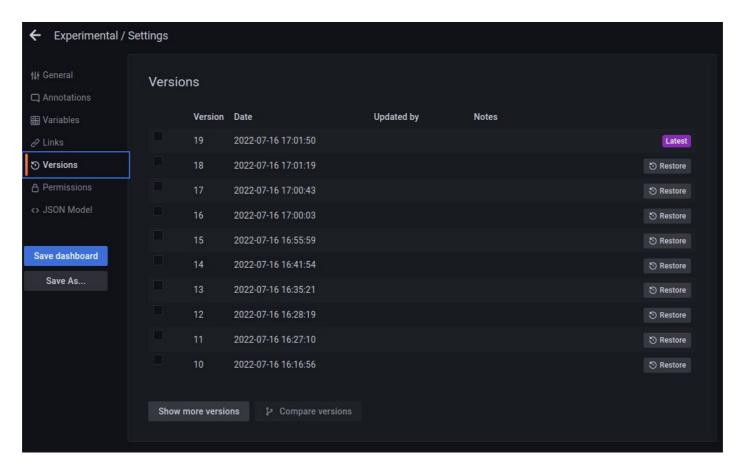




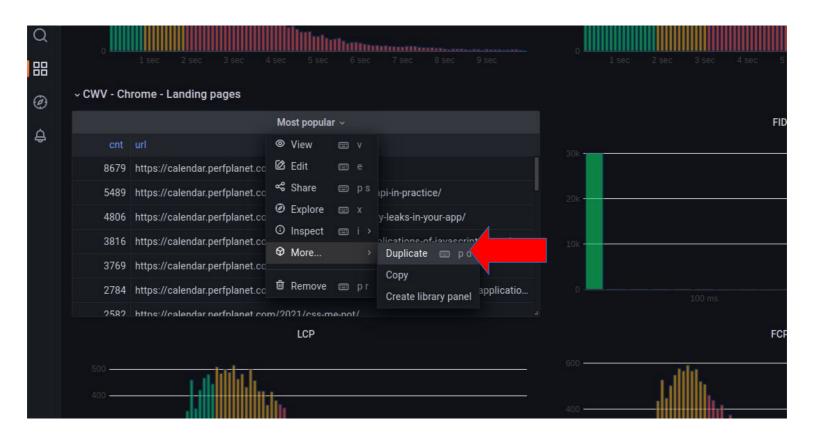




Grafana as a playground



Grafana as a playground



Grafana as a playground

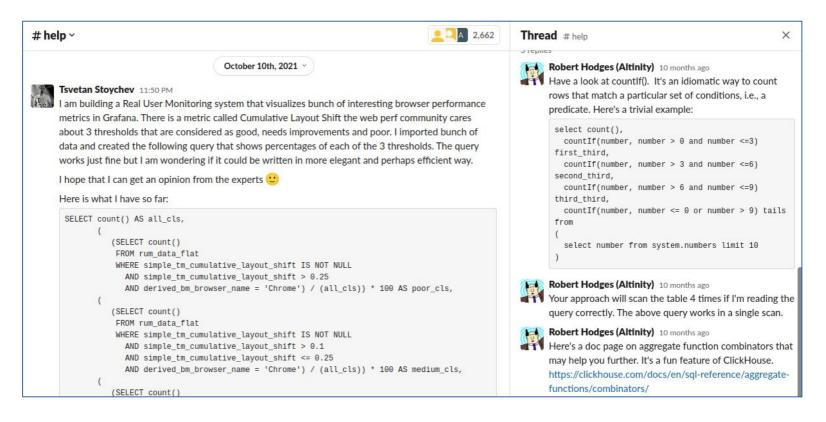
```
re-create > $ 1-do.sh
                                               #!/bin/bash
                                               dropSql=$(<drop.sql)
                                               createSql=$(<create table.sql)</pre>
                                               docker exec benthos workshop clickhouse server 1 clickhouse-client -q "${dropSql}"
                                               docker exec benthos workshop clickhouse server 1 clickhouse-client -q "${createSql}"
                                         re-create > 🛢 2-drop.sql
                                               DROP TABLE IF EXISTS webperf rum events

∨ re-create

                                         re-create > = 3-create table.sql
 $ 1-do.sh
                                               CREATE TABLE IF NOT EXISTS webperf rum events dummy (
 2-drop.sql
                                                    event date Date DEFAULT toDate(created at),
                                                    created at DateTime,
 3-create table.sql
                                                                                      LowCardinality(String),
                                                    event type
                                                                                      LowCardinality(String),
                                                    browser name
                                                    browser version
                                                                                      String,
                                                    device manufacturer
                                                                                      LowCardinality(String),
                                                                                      LowCardinality(String),
                                                    device type
                                                                                      String,
                                                    user agent
                                                                                      LowCardinality(String),
                                                    next hop protocol
                                                    visibility state
                                                                                      LowCardinality(String),
                                          12
                                                    session id
                                                                                      FixedString(43),
                                                    session length
                                                                                      UInt8,
                                                    url
                                                                                      String,
```

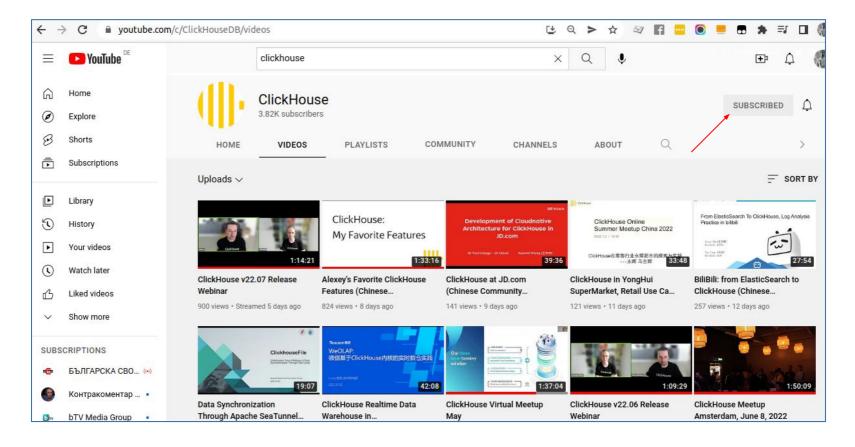
```
insert example.sql
     ## EXAMPLE INSERT
     INSERT INTO test table SETTINGS input format skip unknown fields = true FORMAT JSONEachRow
     {"created at": "2022-06-11 13:15:13", "c1": "34", "c2": "8990", "c3": "8990", ...., "c998": "100", "c999": "100"}
     ## EXAMPLE SCHEMA
     CREATE TABLE IF NOT EXISTS webperf rum events dummy (
         event date Date DEFAULT toDate(created at),
         created at DateTime,
                                  Nullable(UInt16),
         c1
11
                                  Nullable(UInt16)
12
         c2
13
         ENGINE = MergeTree()
14
         PARTITION BY to YYYYMMDD (event date)
15
         ORDER BY (c1, event date)
         SETTINGS index granularity = 8192
17
```

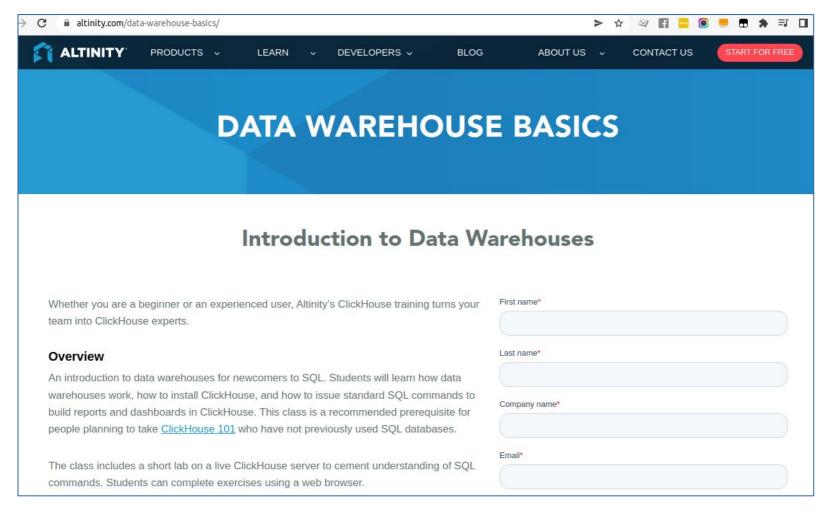


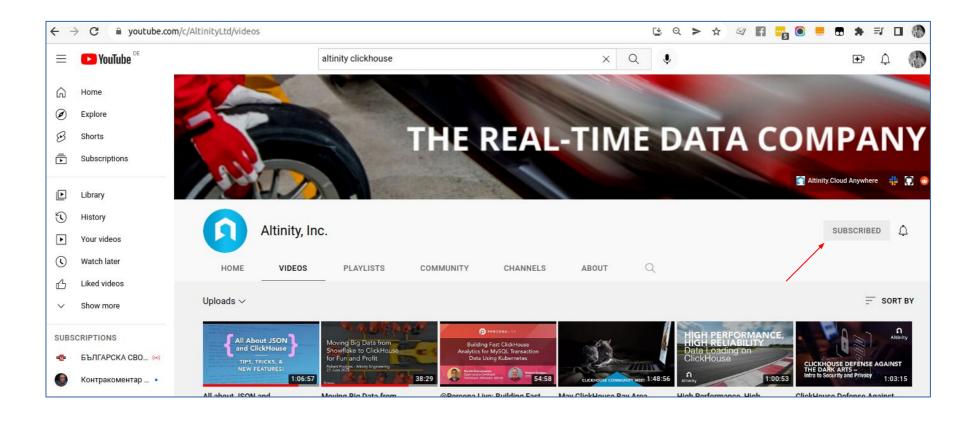


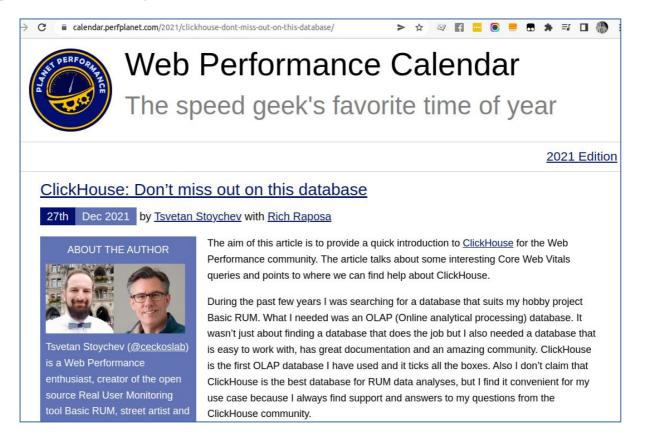


SICK Really good support on the ClickHouse slack space!









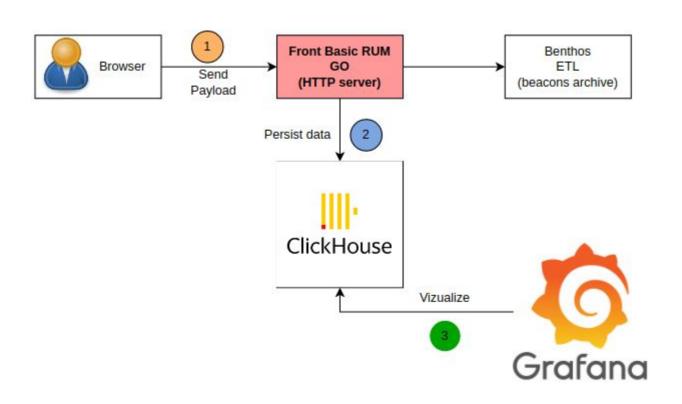


### In closing



Kudos for the great ClickHouse community!

#### But where to focus first?



# ₹ The END ₹