Цель:

- 1. Взять любой демонстрационный DATASET, не обязательно полный набор данных:
 - https://clickhouse.com/docs/en/getting-started/example-datasets
- 2. Конвертировать таблицу в реплицируемую, используя макрос replica
- 3. Добавить 2 реплики
- 4. отдать результаты запросов как 2 файла SELECT getMacro('replica'),

*

FROM remote('разделенный запятыми список реплик',system.parts) FORMAT JSONEachRow;

SELECT * FROM system.replicas FORMAT JSONEachRow;

5) Добавить/выбрать колонку с типом Date в таблице, добавить TTL на таблицу «хранить последние 7 дней». Предоставить результат запроса «SHOW CREATE TABLE таблица» на проверку.

```
CREATE TABLE trips
     `trip_id` UInt32,
`pickup_datetime` DateTime,
`dropoff_datetime` DateTime,
`pickup_longitude` Nullable(Float64),
     `pickup_latitude` Nullable(Float64),
     `dropoff_longitude` Nullable(Float64),
     `dropoff_latitude` Nullable(Float64),
`passenger_count` UInt8,
     `trip_distance` Float32,
     `fare_amount` Float32,
     `tip_amount` Float32,
     `tolls_amount` Float32,
     `total_amount` Float32,
`payment_type` Enum('CSH' = 1, 'CRE' = 2, 'NOC' = 3, 'DIS' = 4, 'UNK' = 5),
     `pickup_ntaname` LowCardinality(String),
`dropoff_ntaname` LowCardinality(String)
ENGINE = MergeTree
PRIMARY KEY (pickup_datetime, dropoff_datetime)
Query id: 17f3da58-c4c9-4320-ad16-0d25afa15ee2
0 rows in set. Elapsed: 0.027 sec.
ch1 :) INSERT INTO trips
SELECT
     pickup_longitude,
     dropoff_longitude,
dropoff_latitude,
```

```
INSERT INTO trips SELECT

trip_id,
    pickup_datetime,
    dropoff_datetime,
    pickup_longitude,
    pickup_longitude,
    dropoff_longitude,
    dropoff_longitude,
    dropoff_latitude,
    passenger_count,
    trip_distance,
    fare_amount,
    extra,
    tip_amount,
    totls_amount,
    totls_amount,
    totls_amount,
    payment_type,
    pickup_ntaname
    dropoff_ntaname

FROM gcs('https://storage.googleapis.com/clickhouse-public-datasets/nyc-taxi/trips_{0..2}.gz', 'TabSeparatedWithNames')

Query id: cd0783ef-81a6-4831-bb14-c15293f6799e

Ok.

0 rows in set. Elapsed: 30.765 sec. Processed 3.00 million rows, 257.94 MB (97.52 thousand rows/s., 8.38 MB/s.)
Peak memory usage: 380.22 MiB.
```

```
ch1 :) CREATE TABLE trips_new AS trips ENGINE=ReplicatedMergeTree('/clickhouse/tables/{shard}/trips', '{replica}') PRIMARY KEY (pickup_datetime, dropoff_datetime) ORDER BY (pickup_CREATE TABLE trips_new AS trips
ENGINE = ReplicatedMergeTree('/clickhouse/tables/{shard}/trips', '{replica}')
PRIMARY KEY (pickup_datetime, dropoff_datetime)
ORDER BY (pickup_datetime, dropoff_datetime)
Query id: 692384da-522f-4716-aab8-02433308b40d
Ok.

0 rows in set. Elapsed: 0.036 sec.
ch1 :)
```

```
ch1:) DROP TABLE trips

DROP TABLE trips

Query id: a46110f7-ac83-4724-a48a-a221642b0bae

Ok.

0 rows in set. Elapsed: 0.007 sec.

ch1:)

ch1:) RENAME TABLE trips_new to trips

RENAME TABLE trips_new TO trips
```

```
root@chl:/tmp# clickhouse-client -h 192.168.188.132 -q "SELECT getMacro('replica'),* FROM remote('clh1,clh2,clh3',system.parts) FORMAT JSONEachRow;" > /home/admln/dz_19624 root@chl:/tmp# ll /home/admln/ total 2424 drwxr-xr-x 3 root root 4966 My 18 02:33 ../
drwxr-xr-x 3 root root 2496 My 18 02:33 ../
-rw------- 1 admln admln 10 27 21:47 .bash.history
-rw------ 1 admln admln 220 Jan 6 2022 .bash.logout
-rw-r--r-- 1 admln admln 3771 Jan 6 2022 .bash.cogout
-rw------ 1 admln admln 3818 Jul 27 11:46 DataSet.csv
-rw------- 1 admln admln 130 Jul 27 11:46 DataSet.csv
-rw------ 1 admln admln 130 Jul 27 11:46 DataSet.csv
-rw------- 1 admln admln 130 Jul 27 11:46 DataSet.csv
-rw------- 1 admln admln 3818 Jul 27 11:46 DataSet.csv
-rw------- 1 admln admln 380 Jan 6 2022 .posicle
-rw-r------ 1 admln admln 4996 My 18 02:38 .ssh/
-rw------ 1 admln admln 4996 My 18 02:38 .ssh/
0 May 17 23:39 .sudo_as_admin_successful
```

https://github.com/LukiyanK/Clickhouse-study/blob/main/19 06 24/dz 190624

https://github.com/LukiyanK/Clickhouse-study/blob/main/19 06 24/dz 190624 2

```
ch1 :) ALTER TABLE trips MODIFY TTL dropoff_datetime + toIntervalDay(7)

ALTER TABLE trips
      (MODIFY TTL dropoff_datetime + toIntervalDay(7))

Query id: aelee3f1-7e4c-455f-9065-badda4b8372c

Ok.

0 rows in set. Elapsed: 0.571 sec.

ch1 :)
```