TimeScale Cheat Sheet

by ecdk1234 via cheatography.com/60479/cs/22711/

Hypertables

Create Table- 2 steps

1. create a standard postgresql table :

```
CREATE TABLE conditions (  time        TIMEST AMPTZ
```

2. use create_hypertable command

```
SELECT create _hy per tab le( 'co ndi tions', 'time');
```

Convert table **conditions** to hypertable with just time partitioning on column **time**

```
SELECT create _hy per tab le( 'co ndi tions', 'time', chunk _tim e_i nterval => INTERVAL '1 day');
```

```
SELECT create _hy per tab le( 'co ndi tions', 'time', 'locat ion', 4, partit ion ing _func => 'locat ion _h
```

```
SELECT create _hy per tab le( 'co ndi tions', 'time', if_not _exists => TRUE);
```

Creat Index:CREATE INDEX ... WITH (timescaledb.transaction_per_chunk, ...);

```
CREATE INDEX ON condit ion s(time, device_id) WITH (times cal edb.tr ans act ion _pe r_c hunk);
```

show_chunks()

```
SELECT show_c hun ks( 'co ndi tio ns');
```

```
SELECT show_c hun ks( old er_than => INTERVAL '3 months');
```

Compression

Use Alter table

```
ALTER TABLE <ta ble _na me> SET (times cal edb.co mpress, timesc ale db.c om pre ss_ orderby = '<c olu mn_
lu mn_ nam e> [, ...]' );
```

```
ALTER TABLE metrics SET (times cal edb.co mpress, timesc ale db.c om pre ss_ orderby = 'time DESC', timesc
```

add_compress_chunks_policy()

```
SELECT add_co mpr ess _ch unk s_p oli cy( 'co ndi tions', INTERVAL '60d');
```

Automation

add_reorder_policy()

```
SELECT add_re ord er_ pol icy ('c ond iti ons', 'condi tio ns_ dev ice _id _ti me_ idx');
```

alter_job_schedule()

```
SELECT alter_ job _sc hed ule (jo b_id, schedu le_ int erval => INTERVAL '5 minutes') FROM timesc ale db_ i
i tio ns_ agg ':: reg class;
```

reschedules the continuous aggregate job for the conditions_agg view so that it runs every five minutes.

Utilities

Get information about hypertables

```
SELECT * FROM timesc ale db_ inf orm ati on.h yp er
```

Get statistics about chunk compression

```
SELECT * FROM timesc ale db_ inf orm ati on.c om pr
```

Get statistics about hypertable compression

```
SELECT * FROM timesc ale db_ inf orm ati on.c om pr
```

Get metadata and settings information for continuous aggregates

```
SELECT * FROM timesc ale db_ inf orm ati on.c on ti
```

Get information about background jobs and statistics related to continuo

```
SELECT * FROM timesc ale db_ inf orm ati on.c on ti
```

Get relation size of the chunks of an hypertable

```
SELECT chunk_ table, table_ size, index_ size, tota
tio ns');
```

Get approximate row count for hypertable(s) based on catalog estimate

```
SELECT * FROM hypert abl e_a ppr oxi mat e_r ow_ co
```

Get relation size of hypertable

```
SELECT table_ size, index_ size, toast_ size, total_
on dit ions');
```

Continuous Aggregate

Create View

```
CREATE VIEW contin uou s_a ggr ega te_ view( timec,
time_b uck et( '30 day', timec);
```

Alter View

```
ALTER VIEW contag g_view SET (times cal edb.re fre
```

Refresh View

```
REFRESH MATERI ALIZED VIEW contag g_view;
```

Drop View

```
DROP VIEW contag g_view CASCADE;
```