# Qserv Hangout 2015-04-08

## Date

08 Apr 2015

## Attendees

- John Gates, Fritz Mueller, Unknown User (danielw), Vaikunth Thukral, Serge Monkewitz, Andy Salnikov, Andy Hanushevsky, Jacek Becla
- Kian-Tat Lim, Mario Juric for the March sprint demo

## Discussion items

**March Sprint Demo**

- gcov
  - We could try. Hoping SQUARE will provide "central" support
- DM-854
  - ☑ document duplicate column restrictions sql restrictions
- db module - improvements
  - ☑ revisit implementation of createTable (and createDb?)
    - current implementation confused data loader, see DM-2417
    - should behave like mysql does
    - created ticket: DM-2502
- db module - documentation
  - ☑ doxygenize
    - created ticket: DM-2503
- ddl info in metaserv
  - ☑ rethink how to store metadata about schema if we have 100s of database with exactly the same schema
    - created tickets DM-2504, DM-2505
    - related ticket DM-2139
  - ☑ also, document what is supported, cat/sql/baselineSchema.sql not enough
    - created ticket DM-2506
- defining stories
  - try to clearly define goals / deliverables / "acceptance list"

**information exchange between processes**

- usecase: need to exchange info about "index of chunks managed by the worker" between cmsd and xrootd
- considering shared memory (if we can keep it simple)
- ~1000 elements, easy, can lock entire block, auto release lock
- don't want to do it through xrootd directly, or via database. Messes up scheduling I/O heavy requests
- having it will allow incremental updates to the structure of the index of chunks without restarting the services

- ☑ create stories for Andy

- created DM-2507, DM-2508

**Deleting tables**

- related story: DM-1896
- worry about race condition: one czar marks  table delete-pending, other czar schedules query related to that table
- decided to introduce small delay, rely on fast synchronization between czars and CSS
- considered stamping schema with "schema version", incremented when table deleted etc. Worry, it can stop perfectly valid queries that need tables not affected
- considered cross-czar communication