Database meeting 2022-07-13

Date

13 Jul 2022

Attendees

- Igor Gaponenko Andy Salnikov Colin Slater Fritz Mueller Andy Hanushevsky Joanne Bogart

Notes from the previous meeting

- Database Meeting 2022-07-06

Discussion items

Discussed	Item	Who	Notes
✅	Project news	Fritz Mueller	PCW 2022? SLAC performance review: - Igor Gaponenko should do it before the end of the week.
✅	Status of DP02	team	Fritz Mueller: - DP02 is going on quite well. No user complaints so far on the missing truth tables Fritz Mueller: status of the `RefMatch` table `MatchesTruth`? - the special partitioning tool `sph-partition-matches` was improved - the partitioned version of the table `MatchwesTruth` was loaded into `qserv-int` - CSS was manually fixed - the `RelationGraph` looks fine, the rest of the code looks fine too - however, the query evaluation for the table is still not working - this requires further debugging using `gdb` - Igor Gaponenko will ingest these tables into the `small` cluster at NCSA to help Fritz Mueller's effort - Andy Salnikov has proposed adding the integration test for the `RelationGraph` - Igor Gaponenko should add support for the `RefMatch` tables to the Replication/Ingest system - Fritz Mueller will extend the integration test to support `RefMatch` tables Colin Slater: status of the input data of the `ForcedSourceOnDiaObject` table? - is about to run the final *fixup* stage - the data will be ready within a timeframe of 1 day - the number of the `Parquet` files will be greatly reduced (no splitting tracts to patches) which would help a lot with speeding up the `PArquet-to-CSV` translation Igor Gaponenko: further improvements to the Replication/Ingest system based on the DP02 experience Colin Slater: need to improve the monitoring of the Qserv usage in IDF - Fritz Mueller mentioned Fabrice Jammes's idea to use Prometheus monitoring by pulling metrics from Qserv - Colin Slater proposed to pull metrics from Qserv and ship them to Google for monitoring, aggregation, and visualization - Fritz Mueller right now we are not logging anything from Qserv since it's too expensive. So, we don't even have the searchable log
✅	Development infrastructure for Qserv		Igor Gaponenko: need a replacement for Qserv development platform that we're loosing at NCSA in 1 month (the August 15th deadline) - still, no progress on the temporary instance based on the loaner hardware at SLAC - the IT is quite busy working on the USDF infrastructure Fritz Mueller will work with SLAC IT and Richard to accelerate this. Also, in September we are supposed to have 4 former `master[1-4]` machines as the temporary development platform. Aa the meantime, the IDF development cluster (`qserv-dev`?) is the only option.

| ✅ **NOTE**: the topic will continue to be discussed next week after [Fabrice Jammes](#) will get back from vacation. | qserv-ingest | [Igor Gaponenko](#) [Fabrice Jammes](#) | Context:

• [Igor Gaponenko](#): extending the versioning mechanism in REST API of the Replication/Ingest and the implementation. This requires making changes to the JSON config files (to store the version numbers) and the ingest workflows (including `qserv-ingest`). There is the PR on the Git package `qserv-ingest` in the JHIRA ticket mentioned below.

• ⚠️ [DM-35456](#) - Jira project doesn't exist or you don't have permission to view it.

• The CI is failing on the PR due to Repl service version incompatibility. Two PRs exist in the scope of the same JIRA ticket. Both migrated to version 9 simultaneously.
• Do we need the common Python API for the Replication/Ingest system? We have presently 2 separate implementations: one in the Qserv container's CLI (source path `src/admin/python`), and the other one in the GIt package `qserv-ingest` (source path `rootfs/python`). This seems like a duplicate effort.

[Fritz Mueller](#) proposed to:

• give the high priority for moving `qserv-ingest` into `qserv`
• (after that) work on the common Pythn API to the R-I system to be shared by the integration test and the workflow

On the Repl API versioning:

• [Fritz Mueller](#) will prepare a write-up in Confluence to propose a solution
• the topic will be discussed next week |
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Action items

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