Database Meeting 2022-08-31

Date

31 Aug 2022

Attendees

- Igor Gaponenko Colin Slater Andy Salnikov Andy Hanushevsky John Gates Igor Gaponenko Joanne Bogart Fabrice Jammes

Notes from the previous meeting

- Database Meeting 2022-08-24

Discussion items

Discussed	Item	Who	Notes
✅	Project news	Fritz Mueller	- mostly preparing for the upcoming reviews - reminder: DM JTM will be in Chile on March 13-17, 2023
✅	`RefMatch` tables support in Qserv	team	Fritz Mueller: - Qserv may have a bug in the query rewrite for the RefMatch tables when querying the table directly in the `SELECT` queries - The investigation will require attaching `gdb` to test the `RelationGraph` - status of `MatchesTruth` in IDF? Fritz Mueller and Colin Slater think the table should not be (at least temporarily, before the bug got fixed) directly exposed in the TAP service. In the meantime, we would be looking at fixing the bug. Another reason not to expose the table is that some of its content may be confusing to users. Some columns make sense in `Parquet` but not in Qserv. Fritz Mueller suggested that we might drop some confusing columns. Colin Slater says this could be done at the TAP schema level. Colin Slater the ETA for getting the TAP schema description for the table this table in IDF is roughly next week. Igor Gaponenko updates on the R-I system support and the integration tests ⚠ DM-35578 - Jira project doesn't exist or you don't have permission to view it. Fritz Mueller: in order to improve the test coverage of Qserv we need: - self-diagnostic on the startup - self-contained diagnostic dataset testing for other services of the upper stack (TAP, RSP, etc.). Gregory and Frossie would like to have the one - Colin Slater might be interested in handling this Igor Gaponenko mentioned an idea to make the test catalog synthesizer that would specifically target Qserv functionality - Fritz Mueller suggested t also have a look at what Colin Slater did for KPM50 Fritz Mueller: IN2P3 is still waiting before `TruthMatches` gets validated by loading this table and the new version of `ForceObjectOnDiaObject`. Fritz Mueller suggested building the new Qserv release after Igor Gaponenko merges the `RefMatch` improvement PR into the `main` branch (this is expected to be done by the end of the day today). Then Fabrice Jammes would be able to build another release of `qserv-ingest` to extend the integration test to cover the `RefMatch` support.

✅	Status USDF /S3DF		Fritz Mueller: • NCSA is now officially shut down for LSST • all data have been migrated to SLAC • as of the last Monday we have joined USDF + UKDF + FrDF meetings • NCSA negotiating with SLAC terms for moving 4 master nodes of the former Qserv clusters to SLAC. The machines are planned to be used as the development platform by the DAX team. A problem is that the hardware warranty for machines has expired. The ETA for making the machines available at SLAC is unknown. Igor Gaponenko on status of Qserv at SLAC: • No significant progress as I was busy with the code development and working on overhauling the integration tests • Unpacked and deployed the data at all workers and the master node • started making adjustments to the Qserv configs (the "igor" mode)
✅	`ObsCore`	Andy Salnikov	Still working on the stand-alone tool (the task) which needs to be incorporated into the Registry. No views due to various performance and synchronization complexity issues. Ended up creating the real table in `PostgreSQL`. The table will get periodically updated. The table will be served via the TAP service. GIS is not quite suitable for implementing spatial operation on the catalog's data since it's not. For now, the intent is to use: https://pgsphere.github.io/
✅	`qserv-ingest`, `qserv-operator`	Fabrice Jammes	Just made the PR to be reviewed by Andy Salnikov since it has a lot of Python code. Made improvements to the configurations using `ConfigMaps` and the `lite` container's entry points. The operator now generates the configs and injects those into `ConfigMaps`. Fritz Mueller: • it would be better to bring the operator into the same Git package where we have Qserv • then we will have the default configs used by the operator in the same source tree
✅	The `OR` bug in the Qserv parser /analyzer	Colin Slater Fritz Mueller	Context: • https://lsstc.slack.com/archives/G2JPZ3GC8/p1661900111258439 Fritz Mueller is going to investigate this and fix the one if possible

Action items

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