Database Meeting 2022-09-07

Date

07 Sep 2022

Attendees

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

Notes from the previous meeting

- Database Meeting 2022-08-31

Discussion items

Discussed	Item	Who	Notes
✅	Project news	Fritz Mueller Colin Slater	No significant project news due to the Labour Day holiday
✅	`RefMatch` tables support in Qserv	team	Status: • The tables are now fully supported by the Replication/Ingest system: ◦ ⚠ DM-35578 - Jira project doesn't exist or you don't have permission to view it. • As reported by Colin Slater in https://lsstc.slack.com/archives/G2JPZ3GC8/p1662485018787169, Qserv queries against `MatchesTruth` of `DP2` seem to produce reasonable result sets in `qserv-int`. • Fritz Mueller is looking into `RelationGraph` to sure it does what it's supposed to do. Fritz Mueller? • Anything else here? • What are the next steps? • Should we give the green light to our colleagues at FrDF to ingest this table into their Qserv instances? Fabrice Jammes? • Would it make sense to try ingesting the final version of `DP02` (including `MatchesTruth`) into `qserv-dev` at IDF using the latest version of `qserv-ingest`? Colin Slater needs to update the Felis schema to allow the new version of the table in TAP Fritz Mueller has investigated the problem of the extra condition clause generated by `RelationGraph` for queries that directly query the `RefMatch` tables. It seems to do the right thing. No bugs have been found. We shouldn't publish the special column `flags` not confuse users. Colin Slater is still concerned about the case sensitivity of Qserv for queries that involve the object identifiers of the *dir ector* tables. Fritz Mueller to Colin Slater how urgent is deploying `MatchesTruth` in `qserv-prod` (IDF)? • Colin Slater is more interested in the conservative approach (the way it was done in `-int`) • Fritz Mueller says the new version of Qserv in `-prod` won't be available before Thursday • Igor Gaponenko it will take 1 or 2 days to ingest this table into Qserv Fritz Mueller: the bottom line: • the `RelationGraph` is working • waiting for the TAP schema published • need to build a new Qserv release that fixes a few bugs and adds support for ingesting `RefMatch` tables • after that, we need to deploy this version in IDF Fritz Mueller the final decision on ingesting `MatchesTruth` into `-prod` is

✅	Status of `qserv-ingest` and `qserv-operator`	Fabrice Jammes Fritz Mueller	Fabrice Jammes: • The new version of the Ingest system has been successful tests. The integration test passes. We are ready to release this version. • Thought, ingesting the new capability of the Replication/Ingest system version 9 that adds support for ingesting `RefMatch` tables still need to be tested Fritz Mueller: • agreed that it would make sense to test the new version of `qserv-ingest` & `qserv-operator` in `qserv-dev` (IDF) after the integration test passes Igor Gaponenko Please, note: • integration test `case05` has been dropped from Qserv • integration test `case03` has been extended to have 2 director tables and 1 `RefMatch` table Fritz Mueller: • the new Qserv tag will be published • the new version of `qserv-operator` should be built on top of that to be ingested into IDF, elsewhere.

✅	Qserv instance at USDF	team	Igor Gaponenko on the recent status
			• back to this development after finishing working on `RefMatch` tables and another delayed development
			• ran into a few obstacles with the configuration of the cluster:
			  ◦ the cluster was intentionally cut off from the Internet (no outbound connections were allowed)
			  ◦ couldn't connect to `GitHub`
			  ◦ couldn't pull anything from (or push into) the `DockerHub`
			• reasonable workarounds were found with Yee's help
			• working on starting up Qserv
			
			Fritz Mueller once the cluster is up:
			• ingest `DP02` into the cluster
			• point the TAP service to the cluster
			
			Igor Gaponenkoon the potential performance issues with ingesting large-scale catalogs into this instance:
			• we presently have data in the Google Cloud
			• we may see the poor performance since all communications with those data sources would have to go via the single proxy host a SLAC
			• I will experiment with the current setup to see the effect in the quantitative terms
			
			Fritz Muelleron alternative options:
			• we don't have yet the Object Store at SLAC that would be the right answer
			• there is an option to pull the input data from Google Cloud into the shared filesystem at SLAC
			• though, the performance may be the problem here since we would need to pull over 30 TB of data and 1.7 million files.

✅	ObsCore	Andy Salnikov	Working on the implementation that is not touching spatial indexes yet. That would be done next.

Action items

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