

Database Meeting 2022-03-23

Date

23 Mar 2022

Attendees

- Igor Gaponenko Unknown User (npease) Fritz Mueller Fabrice Jammes John Gates Colin Slater Andy Hanushevsky Joanne Bogart

Goals

- Please, add topics

Discussion items

Time	Item	Who	Notes
	Project news	Unknown User (npease) Fritz Mueller	<p>Unknown User (npease) reported from the last DMLT meeting</p> <ul style="list-style-type: none">Camera cooling system problems. Switching to the liquid cooling system.Some discussion on the data provenance in ButtlarDecommissioning of Qserv is shifting from September to August 2020
	Progress on topics discussed at the previous meeting Database meeting 2022-03-16	team	<p>Grand Unified Repo:</p> <ul style="list-style-type: none">the outstanding PR on merging <code>qserv_testdata</code> is still waiting to be reviewed. Fritz Mueller will do it by Friday. <p>Optimizations in processing results of the N-N queries. Is the PR ready to be merged into the <code>main</code> branch?</p> <ul style="list-style-type: none">Fritz Mueller OK do the merge this FridayThis is a blocking issue for the grand code formatting effort using <code>clang</code>. <p>Investigating worker load imbalance problem:</p> <ul style="list-style-type: none">A configuration problem with LSST logger of Qserv setups at NCSA has been fixed, and we can see now the desired logging info from the XrootD redirector service.John Gates is going to repeat the previous tests to trigger the problem, capture the content of the redirector's log and hand it over to Andy Hanushevsky for further investigation. <p>Database init schema evolution:</p> <ul style="list-style-type: none">The following page summarizes the state of this project: Database schema initializationFritz Mueller's proposal has been discussed GKE expertsFabrice Jammes and Fritz Mueller will continue discussing the proposals with GKE experts

	DP0.2	<p>Felis schema status:</p> <ul style="list-style-type: none">• the TAP service depends on this• it has a few bugs that need to be fixed <p>There is a discussion on the case sensitivity mismatch between TAP and Qserv (MySQL):</p> <ul style="list-style-type: none">• TAP service is claimed to be case-insensitive• MySQL can be configured to be case-insensitive for database and table names (and it's not right now)• the Replication/Ingest system IS case-sensitive• Qserv MAY be case-sensitive <p>Temporary solution:</p> <ul style="list-style-type: none">• Fritz Mueller will apply a temporary fix to the Felis schema and deploy the one in TAP• no need to re-ingest the small slice of the catalog into Qserv. Soon it will be replaced with a better dataset <p>Date-time representation in Qserv schema:</p> <ul style="list-style-type: none">• continued discussing options mentioned yesterday at the team's Slack channel: <code>TIMESTAMP</code>, <code>DATETIME</code> or any numeric time to store nano (micro, or milli) seconds• decided on using MySQL type <code>DATETIME</code>• Igor Gaponenko is going to experiment with the data conversion tool <code>pq2csv</code> to see what this tool produces for a sample input file provided by Colin Slater• Igor Gaponenko asked a question on the required environment for running the tool. Fritz Mueller will help Igor Gaponenko <p>Colin Slater on status of the "real" data:</p> <ul style="list-style-type: none">• Object table is ready. Available in IDF. ForcedSource table will be available later.• Fixes are still needed on the Source table (delayed till the very end of the reprocessing) <p>This opens an option for ingesting Object table first and then doing other tables as they will be getting ready. Igor Gaponenko confirmed that this "table-by-table" mode is supported by the Replication/Inget system.</p>
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Action items

