

Item 52

git_comments:

git_commits:

1. **summary:** [CALCITE-1566] Extended materialized view documentation
message: [CALCITE-1566] Extended materialized view documentation

github_issues:

github_issues_comments:

github_pulls:

github_pulls_comments:

github_pulls_reviews:

jira_issues:

1. **summary:** Better documentation on the use of materialized views
description: As discussed in [CALCITE-1389|<https://issues.apache.org/jira/browse/CALCITE-1389>], it would be helpful to have additional documentation on how Calcite makes use of materialized views.
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label: documentation
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jira_issues_comments:

1. [~julianhyde] [~maryannxue] Could you take a look at the [first pass|https://github.com/michaelmior/calcite/blob/1566-mat-view-doc/site/_docs/materialized_views.md] at this documentation? I'd appreciate any feedback.

2. **body:** Thank you [~michaelmior], for putting together a initial version of materialized view documentation! I'm not sure about the ultimate structure of the document yet, so just a couple of thoughts based on what we have here: 1. I like the first section talking about materialization usage in adapters, so maybe it would make more sense if we include usage scenarios from other adapters. Think I can do the Phoenix part. 2. Before jumping into the limitations and technical details of a specific materialized view rewriting rule, it would be nicer to have an introduction of the basic materialized view rewriting idea and some general rewriting rules. List a few query examples with what they would become after rule application. 3. We could put some important or interesting rewriting rules in sub-sections and talk about some details and limitations, as well as possible future improvement. 4. I believe right now we have two types of materialized view rewriting rules applied in different stages of query planning, one based on SubstitutionVisitor which happens right before volcano planning, the other being RelOptRule which happens during the volcano planning process. So it would be great to talk about their differences and their own preferred scenarios.
label: documentation
3. **body:** Thanks for the suggestions! Agreed that it would be great to have more scenarios from other adapters. If you could write something for Phoenix that would be appreciated. I added a bit more on MaterializedViewSubstitutionVisitor as well as a simple example I pulled from the Javadoc.
label: documentation
4. [~michaelmior], I have reviewed this and it looks good. Can you please commit it? I have some ideas for extra content (e.g. motivating "what are materialized views and why?", and describing the 3 key problems: designing materialized views, populating them (including incrementally) and rewriting queries to use them), and it sounds as if [~maryannxue] does too. We can add our content after you commit.
5. Pushed as
[9ef9430c3][<https://github.com/apache/calcite/commit/9ef9430c382fb3c3a92898e4990f4b7b909ad2ee>].
6. Great! I will include it in the web site push for 1.12 later today.
7. [~maryannxue] and [~jcamachorodriguez], As "power users" of materialized views, can you both please make a pass over that document.
8. Resolved in release 1.13.0 (2017-06-26).