

measure before merging this. I agree with Michael that constraints should go first to check against duplicates though.



timmytofu commented Apr 26, 2015

@jexp @boggle I mention the empty vs. populated database bit in the second half of the original message. To note, though, even putting the constraints at the top doesn't solve the problem, as if the constraint is being imported into an already populated database there might already be data in violation. Importing constraints into a populated database is inherently unpredictable, hence I still think constraints should be deferred if it does indeed increase speed - throw the weird cases under the bus to speed up the common case. Since it all happens within a transaction, neither way should result in corrupted data, one just fails more quickly by making all imports run more slowly.

On that matter I haven't been able to test it for real speed increases - I tried using our data (~1mil nodes, ~2.5mil relationships, nine distinct labels, fifteen relationship types, several indices and unique constraints) and the current dump output, but it ran for hours and hours and eventually I just gave up. We usually do our importing by copying the data/ directory, though a reasonably performant CQL dump would be useful for porting data across versions (which we'd want to do since we can't import from CSV in 2.2.1, see #4434).

TL/DR this was just kind of a lark/brainfart. I've sent in the CLA, though, so take it for whatever it's worth.



timmytofu commented Apr 26, 2015

Actually, cla (@t) neotechnology dot com bounced back at me.



jakewins commented Apr 28, 2015

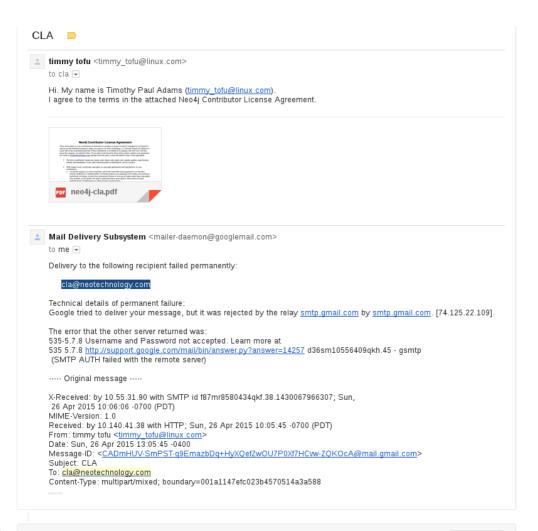
Collaborator

@timmytofu did you email cla@neotechnology.com, or the literal cla(@t)neotechnology.com? If should be the former, I think @jexp checked this earlier today, the former should work. Please let us know if it doesn't!



timmytofu commented Apr 28, 2015

I used the proper email addy:





jakewins commented May 29, 2015

Collaborator

Sorry for dropping the ball on this, I've had GH notifications set wrong.

Ping @jexp @simpsonjulian, have there been issues with the CLA email?



simpsonjulian commented May 29, 2015

Owner

@jakewins we're getting CLA email; that one looks like it failed to be relayed on it's way to us.



jakewins commented May 29, 2015

Collaborator

@boggle @jexp will we merge this in? If there's performance concerns with this approach, perhaps best to close this PR.



boggle commented May 31, 2015

Collaborator

@timmytofu @jexp @jakewins Thanks for the effort and for measuring the impact. Another reason for putting constraints first would be to prevent importing data if it would violate a later constraint and also roll back importing if the data is not in the right shape. Then again, someone might want to construct a result in order to fix up a database so that the constraint holds, in which case putting constraints last seems more desirable. It seems to me that this whole area needs more thinking on our part, perhaps the order of needs to be made configurable. Closing for now and happy to re-open if there's a strong argument why some order is always preferable.



boggle closed this May 31, 2015



jotomo referenced this pull request May 31, 2015



jotomo commented May 31, 2015

FYI: I created a meta issue for all things related to dumps; I've added this issue and linked here. Issue in question in #2625

Sign up for free

to join this conversation on GitHub. Already have an account? Sign in to comment

© 2015 GitHub,

Inc. Terms Privacy Security Contact



Status API Training Shop Blog About Help