IVOA DAL WG Running Meeting #15

Friday 10 March 2023 - 06:00 UTC - vconf

Participants: (6) François Bonnarel (FB), Markus Demleitner (MD), James Dempsey (JD), Grégory Mantelet (GM), Marco Molinaro (MM), Mark Taylor (MT)

Agenda

1. ADQL-2.1 Document
2. ADQL-2.1 Validation
3. Status of ADQL-2.1 implementations
4. Ready for RFC?
5. Other business (SODA, Datalink, DAP)

1. ADQL-2.1 Document

- Remaining issues for ADQL-2.1: https://github.com/ivoa-std/ADQL/milestone/1
- [GM] Will merge the two open PRs today (Fri. 10 March 2023)
- [GM] Will do a final read before RFC next week

2. ADQL-2.1 Validation

(see also https://wiki.ivoa.net/internal/IVOA/IvoaDAL_RunningMeetings/2023_ADQL_Validator.pdf for validator notes, status and sum up)

- Generic off-line validator proposed in the Lyonetia GitHub repository (https://github.com/ivoa/lyonetia).
    - Based on VOLTT/ADQL-Lib
- There's a second implementation against DaCHS in adql/gavo/testdachs.py (https://github.com/ivoa/lyonetia/blob/master/src/adql/gavo/testdachs.py)
- 1 Pull-Request left with some points to discuss: #16 - https://github.com/ivoa/lyonetia/pull/16

- Tests to be discussed
  - *leading underscore in names*
    - cf ivoa/1_select.xml#fe956f66-3c3e-410d-baa4-59305da8ddfc
    - DaCHS allows this so will filter this specific failure out
    - General question - should the validator test for things not allowed in spec as implementors may be more lenient
    - Action: Leave in and MD will ignore for DaCHS
  - *column name in select starting as digit, which is not allowed by BNF*
    - cf ivoa/1_select.xml#85e497ac-4403-4f84-8aa0-a3ee3da514cc
    - tokenisation rules (from SQL92) mean this is interpreted as 2 different tokens with an optional AS between
    - Action: Will remove test and not make a statement about this- can be revisited and potentially disallow in PEG grammar by specifying tokenisation
  - *missing whitespace for 2desc in order by clause*
    - cf ivoa/0_whitespace#a66c56e6-f18d-11e8-96df-28d244962af0
    - Again, tokenisation rules from SQL92
    - Should be accepted by validator but currently fails
    - Action: Remove test and address in PEG grammar
  - *NATURAL implied but not supplied in join*
    - cf ivoa/0_whitespace.xml#d4c3a72c-4458-11e6-96e2-28b2bdcff70b, #dbef92f4-4458-11e6-96e2-28b2bdcff70b, #1f5d27dc-450c-11e6-8564-332de33a5c03
    - Action: Update test to either prodice NATURAL or a USING clause
  - *Complex STC-s involving union and intersection*
    - cf ivoa/O1_geometrical_functions#1655f288-4d02-11e6-8c9d-819288b39233
    - Failing as VOLTT does not suport therse complex expressions
    - Action: GM to update VOLTT
  - *Declaring UDFs for tests*
    - cf ivoa/O1_geometrical_functions
    - VOLTT requires a full definition
    - DaCHS requires a name prefix but doesn't support declaration of function in the parser
    - MD: Would like functions to be specific to each test, not global to the file
    - Action: GM to move function defs to each test rather than global

3. Status of ADQL-2.1 implementations

- **DACHS:** OK
- **CADC:** ?
- **VOLLT:** OK

4. Ready for RFC?

- Yes once PRs and validator issues resolved

5. Other business (SODA, Datalink, DAP)

- [FB] Datalink ready for RFC - **need confirmation from Pat Dowler [JD to email]**
- [FB] SIA1 should be ready for WD by interop - still some issues being discussed in PRs
- [FB] SODA new PRs needed before interop
- See slides for details : https://wiki.ivoa.net/internal/IVOA/IvoaDAL_RunningMeetings/DalRunning10-DL-DAP-SODA.pdf