PowerQuery DATs

Released in PowerSchool SIS 22.9.0.0

It is now possible to create your own Data Access Tags for Students and Teachers. This is done by leveraging specially crafted PowerQueries.

PowerQuery DATs (which we'll refer to as PQ DATs) are generally designed for a single field or row of results, such as a student's email. However, they also allow for multiple fields or rows to be returned, such as a list of all test scores taken.

Documentation
The documentation is available at https://support.powerschoolcom/developer. Access to this site may require you to be a technical contact.

PowerQuery Definition
The normal rules for PowerQueries apply, and in addition these attributes are required to be defined::
- flattened="true"
- dat="true"
- coreTable="Students" OR coreTable="SchoolStaff"

Arguments
These pre-defined arguments can be used in your query. Use them within your query pre-pended with a : (colon) - Example: `WHERE students.id = :curstudid`
- coretabledcid
- curstudid
- curtchrid
- curyearid
- curtermid
- curschoolid
- listaggdelim

Usage
At the most basic level, a PQ DAT starts with `~(*powerquery;query=___)` and at minimum just requires the query param with the name of the PowerQuery. These examples are PowerQueries that are included by PowerSchool with 22.9.0.0

```
~(*powerquery;query=com.powerschool.core.dats.students.student_email)
~(*powerquery;query=com.powerschool.core.dats.students.globalid)
~(*powerquery;query=com.powerschool.core.dats.students.racecodes)
~(*powerquery;query=com.powerschool.core.dats.students.late_assignment_counts_year)
~(*powerquery;query=com.powerschool.core.dats.students.missing_assignment_counts_year)

~(*powerquery;query=com.powerschool.core.dats.teachers.adminglobalid)
~(*powerquery;query=com.powerschool.core.dats.teachers.teacherglobalid)
~(*powerquery;query=com.powerschool.core.dats.teachers.racecodes)
```

Where can you use them?
You can use PQ DATs wherever you normally can use DATs. They can be used in custom pages or screens, Quick Export, AutoSends, List Students, Object Reports, Form Letters. However, the use of PQ DATs that return more than one field or row may produce unexpected results in situations where you are exporting multiple students at once, such as in Quick Export.

Where can I find PowerQuery DATs others have built and shared?
Search the Community Exchange at https://support.powerschool.com/

Based on a query built during our October 21, 2022 meeting, the first PSUGCAL shared PowerQuery DAT is at https://support.powerschool.com/exchange/view.action?download.id=1199