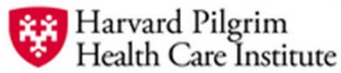# Using the MDPHnet Query Composer Tool - Creating your first query

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Link to MDPHnet Query Tool

- https://querytool.mdphnet.org
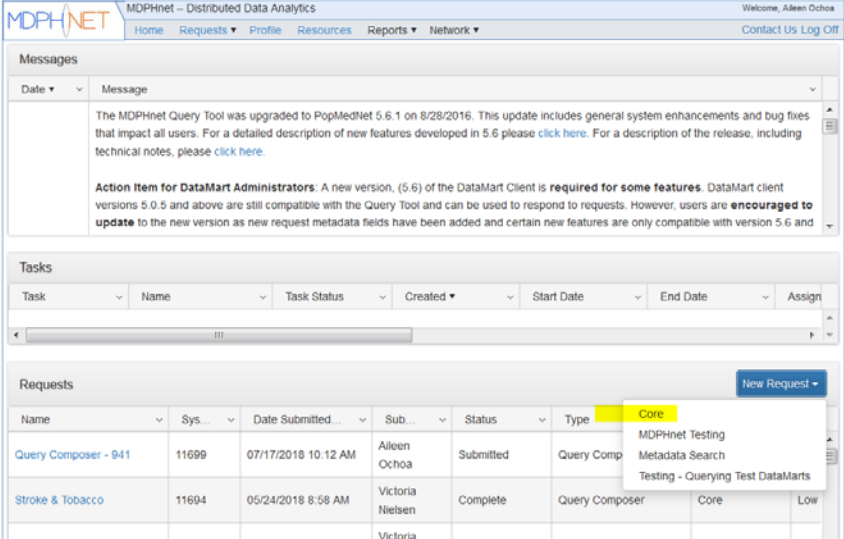- You can request an account from this page or find your password.

Home page

- Click on New Request and then Core to create a query against the MDPHnet database.
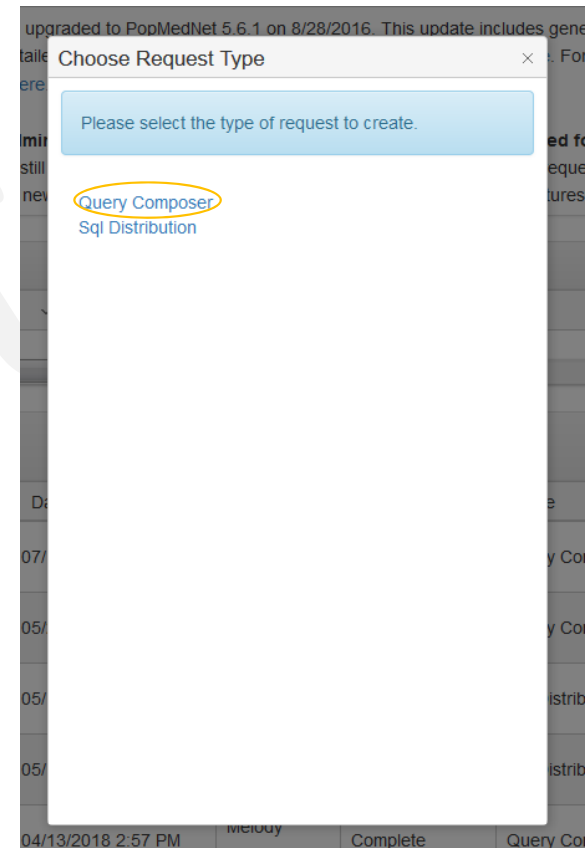
Request Type

- Select desired request.
  - Query Composer is the guided tool for helping create a query.
  - SQL Distribution is for submitting an already written SQL query.
  - The following slides assume you want to use the Query Composer tool.

Request Form – Query Information

- Here you can name your query, put in a description, and put your priority level and due date if needed.
  - This information is used by the MDPHnet sites when they log-in to review the query run.

Request Form – Criteria Groups

- In this section, you can define your cohort.

- First you select a primary group using any of the Add Terms options.
  - For example, you can select Diabetes as a condition.
  - You can also add visit and demographic criteria to your primary group by clicking Add Terms again.

- Note: the criteria group must contain at least a Diagnosis, Disease, or Visits term.

- To remove a term from the query, click the **[X]** control on the upper right of the term.

Request Form – Stratification and Observation Period

- You can view stratified results by selecting the variables you want to stratify by.

- You can set the time period for your cohort in Observation Period Range

Request Form – DataMart and Submit

- Select which MDPHnet sites should receive your query request.
  - Atrius Health, Mass League of Community Health Centers, Cambridge Health Alliance
  - OPS Test DataMart 1 and 2 are used to test the query against a dummy dataset.
- Hit Submit to send your query to each site.
- You can also Save and come back later to edit your query before submitting.

View Results

- You will get an email notifying you when your query has finished running at each site.

- Log in and click on your query name from home page. On the next page, you will see a button near the bottom that says "View Results".

  - Aggregate view is a table level view of results
  - Individual view is the same as aggregate but divided by data partner
  - Projected view shows estimates of prevalence with corrections based on US Census Data.
    - More information: https://popmednet.atlassian.net/wiki/spaces/DOC/pages/16842824/ESP+Query+Composer+Projections
  - Note not all views are available depending on the structure of your query.

Helpful Tips

- Breaking up your desired results into multiple queries may be easier than trying to submit one query that has everything you want.

- It is very common to run a query and realize after you view results that you need to make adjustments. You can easily open your original query, edit, then resubmit through the tool.

- Commonwealth Informatics can provide guidance on a complicated query
    - It might be necessary to run a SQL script using SQL distribution request if the Query Composer can't give the results you want.

More Information

- PopMedNet Wiki has detailed documentation on how to use the Query Composer
  - https://popmednet.atlassian.net/wiki/spaces/DOC/pages/8880241/PopMedNet+User%27s+Guide
- Specific helpful pages
  - Creating a Primary Group https://popmednet.atlassian.net/wiki/spaces/DOC/pages/8880336/Query+Composer+Request
  - Viewing Results https://popmednet.atlassian.net/wiki/spaces/DOC/pages/8880347/Viewing+Request+Results