Query+ Enhancements

PxPlus 2019 (v16)

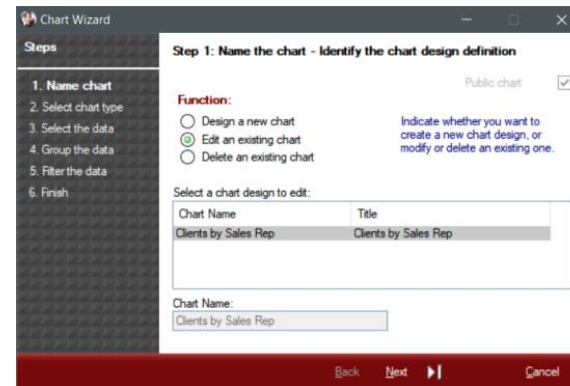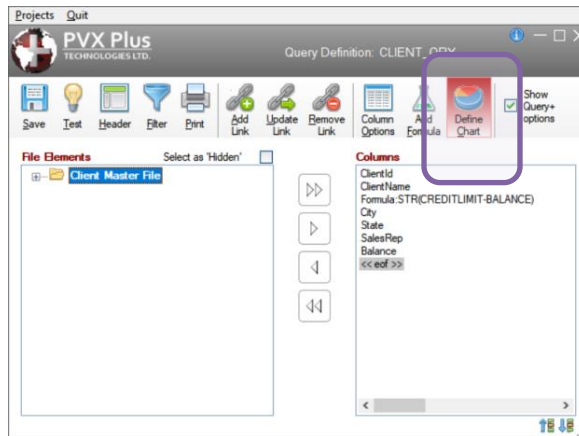# Agenda

- New Features and Options

- Query Profiles

- Performance

- Query Web Service

NEW FEATURES AND OPTIONS

AutoChart Access

New Features and Options

- Easier access to AutoChart Chart Wizard
  - Define Chart button added to Query Definition toolbar
    - Create public AutoChart definitions that can be used to generate and load data into a Smart Chart

Suppress Panel Persistence

New Features and Options

- Suppress Panel Persistence on Queries
  - Query will appear where originally defined
  - Set %nomads'Query_Suppress_Persistence
    - Settings:
    0 = Do not suppress persistence
      - If persistence set by %nomads'Panel_Info_Prog$="*winpnl"
    1 = Suppress persistence
      - Location/size of query will be the original location/size
    2 = Suppress location persistence
      - Location will be original location, but size will persist if changed

  - Applicable to both Query+ and Classic queries

Theme Support

- Specify a theme for the individual query on the Font/Color tab of the Query Header
- Hierarchy for the query theme is:
  - Query theme takes precedence
  - If no query theme, then the Panel Header theme is used
  - If no query or panel theme, then the Library Defaults theme takes effect
  - If none of the above, then the global theme (%nomads'Theme$) is used
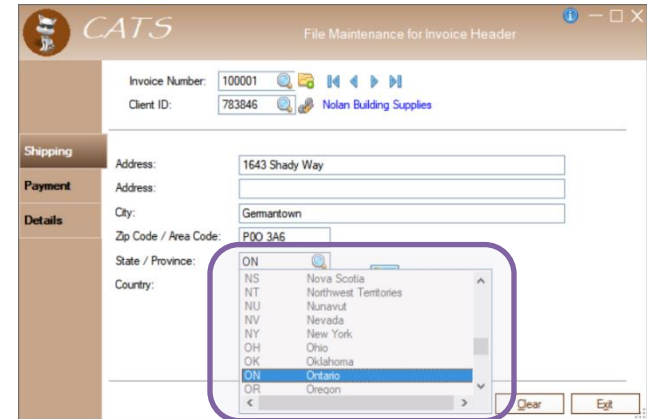 - In all cases, %nomads'ThemeOverride$ will override all theme settings
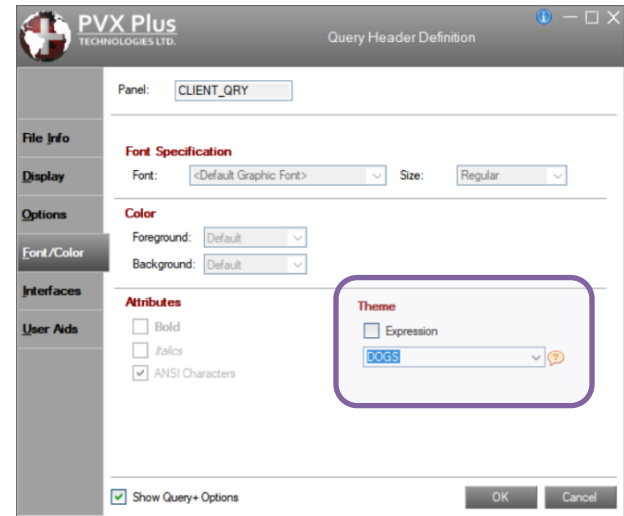
Query+ Options

New Features and Options

- Suppress Column Header buttons on a Drop Query
  - Make the Drop Query resemble a Drop Box more
  - Deploy globally:
    - Set %nomads'Query_NoDropHeader=1
  - For a specific query:
    - Set No Drop Query Header
      option in the Query Header
      on the Options tab
    - Options are:

      - Default - uses the setting in
        %nomads'Query_NoDropHeader
      - Always
      - Never

No Drop Query Header:

Always

DireXions 2019

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Query+ Options

- **Auto Column Resize**
  - Automatically adjusts the sizes of the columns to fit the width of the query
  - Deploy globally:
    - Set %nomads'Query_AutoColSize=1
  - For a specific query:
    - Set Auto Column Resize option in the Query Header
    - Options are:
      - Default - uses the setting in %nomads'Query_AutoColSize
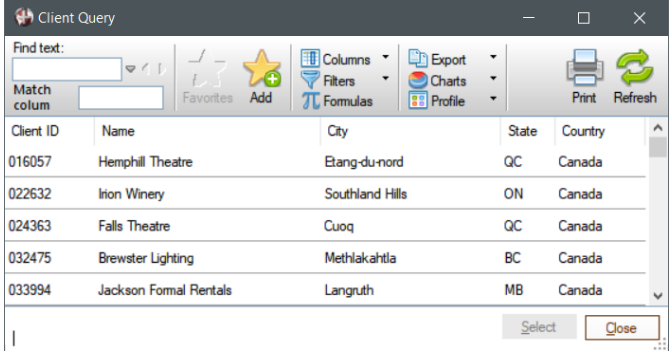   - Always
      - Never

Query+ Options

- Center Text Vertically
  - Centers text vertically in the row when the row is greater than one line high
    - Text that exceeds the width of the column is truncated and displayed with an ellipsis (…)
  - Default – Align text to top of row with word-wrap
  - When an image is used in the query, the setting is ignored and all text is centered vertically
  - The Center Text Vertically option has been added to the Display tab of the Query Header Definition

Reorganized Header Definition
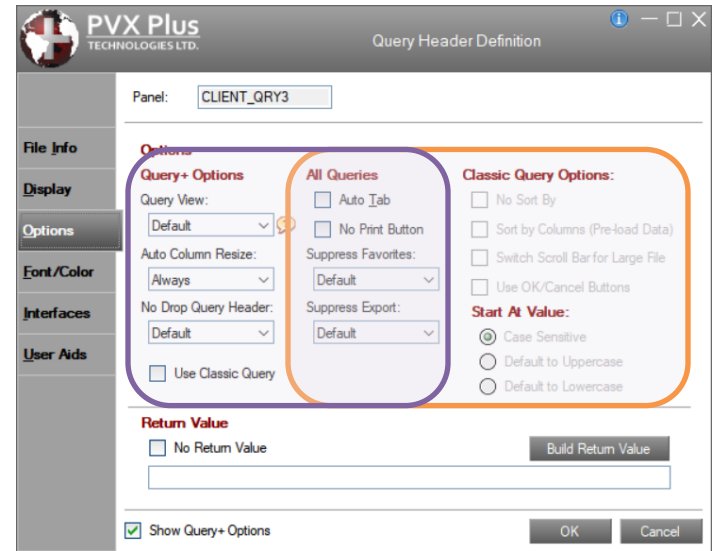
- Reorganized the layout of the Options tab
  - Separated Query+ options from Classic Query options
  - Reworked the enabling/disabling of options on the Options tab based on Classic vs Query+
  - Moved the Gray/White Display option from Options to Display tab
  - Removed the redundant Database Connect Option from Options tab

Query Bulk Edit Utility

- Updated with the latest options
- An easy way to apply new options to multiple queries in a panel library
- Accessed from:
  - Library Object Selection Utilities menu
  - IDE - Graphical Application Builder (Nomads) Utilities menu
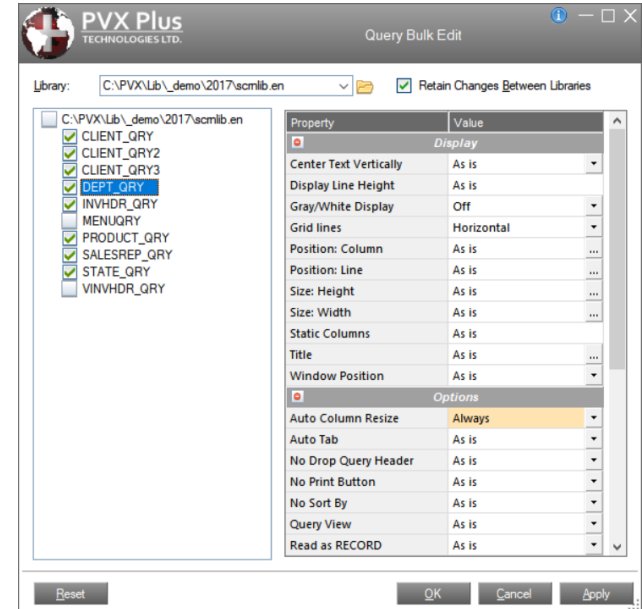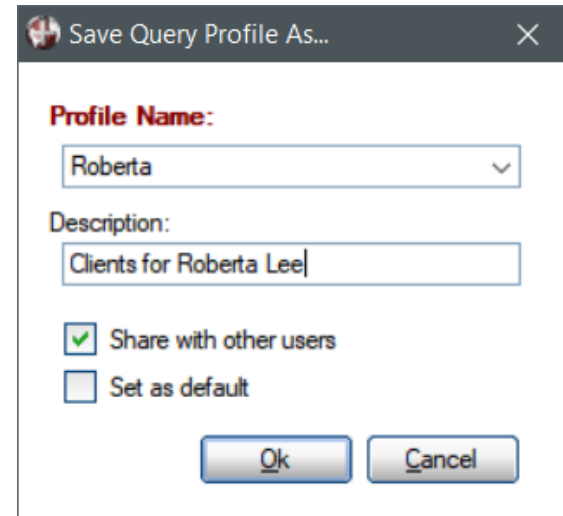
QUERY PROFILES

Definition

- A Query Profile is a collection of run-time settings that has been applied to a query by an end user

- Settings consist of:
  - Column settings
    - Order
    - Width
    - Hide/Show
  - Column filters
  - User-defined formulas

- Settings can be saved with a name and recalled at a later time

Saving Query Profiles

Query Profiles

- **Save / Save As** options available in **Profile** group of the query popup menu or **Profile** button

- Profile names must be unique to the particular query and user

- Each user can create up to 10 profiles per query

- Share your profiles with others

Save Query Profile As...

Profile Name:
Roberta

Description:
Clients for Roberta Lee

☑ Share with other users

☐ Set as default

[Ok] [Cancel]

Saving Query Profiles

- What is saved and when…
  - Column and filter information is saved automatically if the Save Column Settings and Save Filters items in the Column and Filters menus are checked
    - If checked, settings are saved when leaving the profile
    - If not checked, you must Save from the Profile menu

  - User formulas are saved when created and edited

  - Settings can be inherited by saving an existing profile with a new name

Recalling Query Profiles

- Two ways to load a profile:

  - Load an existing profile from the profile list at the bottom of the Profile menu

- Recall a profile from the Load a Profile interface
  - Displays the contents of the highlighted profile
  - Also displays shareable profiles
    - Can be selected and saved as your own

Other Functionality

- **Delete**
  - Delete the specified profile

- **Set the current profile as default**
  - The default profile is used when the query is invoked

- **Reset current profile to standard settings**
 - Restore the settings to those of the original query definition

| Load profile |
| Save profile |
| SaveAs |
| Delete profile |
| Set current profile as default |
| Reset current profile to standard settings |
| Export Profile |
| Import Profile |
| 0. *Main* <Default> |
| ✓ 1. Ann |
| 2. Ontario |
| 3. Roberta |
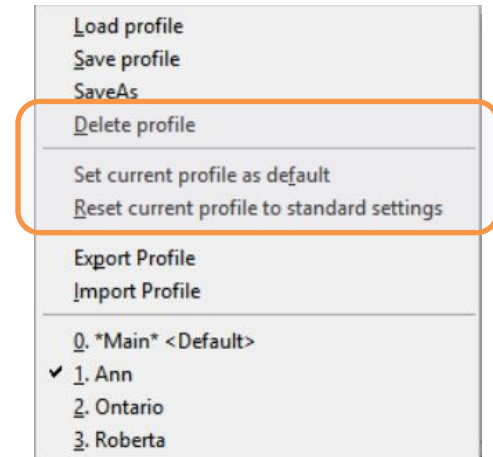
Suppressing Profiles

- Exclude the Profile menu group from the query popup menu and toolbar
  - Add "P" to the value of the %nomads'Query_Suppress_Popup$
  - Example
    - %nomads'Query_Suppress_Popup$="PGU"
      Would suppress Profile, Graphs/Charts and User Formulas on the menu and toolbar
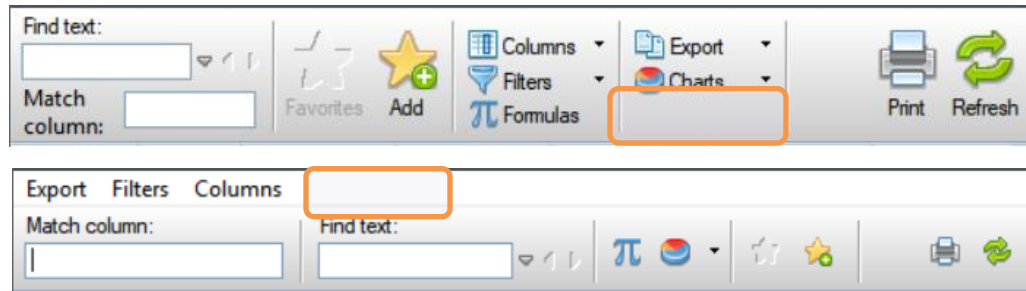
Profile Maintenance Utilities

Query Profiles

- Updated to handle named profiles
  - Includes:
    - Export/Import options on Profile menu

      Export Profile
      Import Profile

    - Query Profile Information Maintenance utility on NOMADS and Library Object Selection Utilities menus
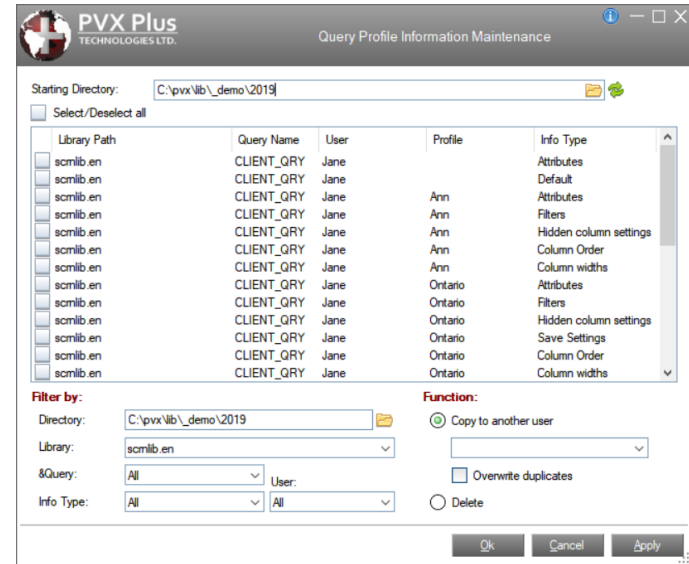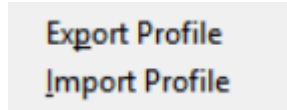
Respect the End-User Data

- query.inf file
  - Profile data is stored in query.inf files in the directory where the screen library is located

> **Warning:**
> These files contain data created by the end user, so be careful *not* to include these files in your application installs, or you will overwrite the user's data.

PERFORMANCE

Performance Enhancements

- Background Loading – for Filtered Data
  - Implemented LoadPoint logic to load blocks of records into the query
    - Used to load one record at a time

- Load-On-Demand – for Unfiltered Data
  - When Start Value specified, implemented use of RNO( ) function for starting record to position the load
    - Previously Background Load mode was used when Start Value was given
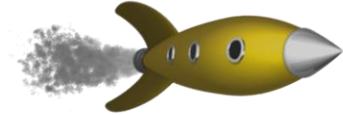
QUERY WEB SERVICE

Query Web Service Enhancements

- Query Web Service Parameters
  - New parameters to allow for more targeted results
    - Sort
      - Column to initially sort on
    - Descending
      - Specify initial sort sequence
      - Number of records to return

Query Web Service Enhancements

- Example
  - Top 15 Customers with highest A/R Balances displayed in descending sequence

Additional Resources

The help link(s) below refer to the current on-line help pages. The functionality may have been further updated since the PxPlus 2019 (version 16) release.

- [Query Subsystem](#)
- [Query Header Definition](#)
- [Query AutoChart Wizard](#)
- [Query Profiles](#)
- [Query Profile Information Maintenance](#)
- [Query Bulk Edit](#)
- [Query Web Service](#)