

LMQS eliminates the need to migrate or modify databases to make them available for searching. Users can query disparate data sources using a common set of query terms accessible through the Pipeline Pilot Database Search web client, Pipeline Pilot Web Port or from protocols with the Pipeline Pilot Professional Client.

OUT-OF-THE-BOX WEB CLIENT AND COMPONENT COLLECTION

An integral part of the LMQS system, the Pipeline Pilot Database Search web client is a web-based interface that provides drag and drop forms building from within a standard web browser. Easy to use and deploy with zero footprint, the client enables users to design forms for searching and browsing data and results lists. Tight integration with Pipeline Pilot makes it possible for users to drill down, analyze and report on their own search results by using protocol-based tools provided by their IT group directly within the client. Interactive analysis and reporting of result lists is supported by the LMQS Component Collection, which provides a variety of list reader and search components to make it easy for developers to build protocols for filtering, processing and manipulating results lists within Pipeline Pilot, and for searching any data sources that have been mapped into the LMQS system.

HIGH PERFORMANCE CHEMISTRY CARTRIDGE

The Pipeline Pilot Chemistry Cartridge is a high performance data cartridge designed to enable you to store, index and search chemistry structures and reactions directly within Oracle. Built on the heritage and framework of the well proven and highly

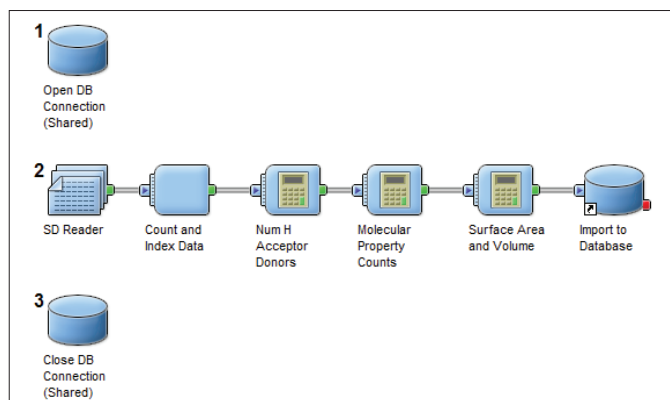


Figure 2: PPCart protocol that uses the Import to Database component to create a fully indexed and searchable chemistry table in Oracle

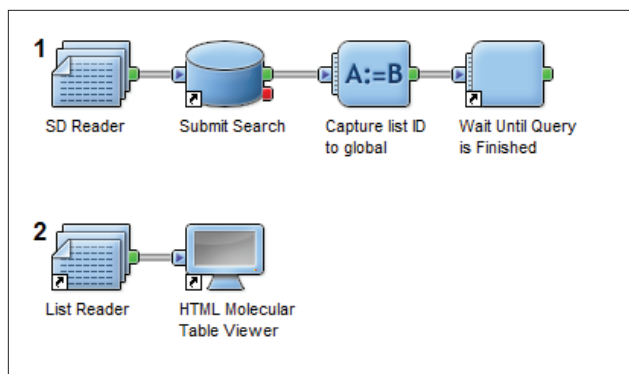


Figure 3: LMQS protocol that imports a structure from an SDF file to use in a substructure search against a reagent database. In this example, search results are stored in a new list and displayed in an HTML table

regarded Accord Chemistry Cartridge, the Pipeline Pilot Chemistry Cartridge uses the Pipeline Pilot molecular data model to extend Pipeline Pilot chemistry into the database tier. The cartridge supports substructure, exact and similarity-based searching and supports many commonly used chemistry formats including Pipeline Pilot Chemistry, Accord Binary, Symyx V2000/ V3000 CTAB & RXN, SMILES and InChI.

Optimized for deployment on Oracle 10g and 11g on Windows and 64-bit Linux, the Pipeline Pilot Chemistry Cartridge offers ultra fast searching and indexing along with proven scalability in handling data sets containing in excess of 100 million molecules.

RICH TOOLSET FOR BUILDING CHEMISTRY DATABASES IN ORACLE

Pipeline Pilot Chemistry Cartridge functionality can be accessed directly through an Oracle API, making it possible for you to perform search and indexing operations directly via SQL and PL/SQL. For Pipeline Pilot based development, PPCart provides you with a rich component collection containing components and protocols focused on making it easy to insert, index, and search chemistry data by writing protocols without needing to be an expert Oracle DBA or fully understand Oracle command line syntax. Protocols that enable you to monitor cartridge index health status visually via easy to understand dashboards and reports are also provided, making it easier for you to check database availability and minimize the risk of downtime or disruption to users searching or registering chemistry data.

BUILD APPLICATIONS FASTER

The Cheminformatics Collection provides you with a comprehensive set of tools to make it easier to build database-focused search and browse applications using Pipeline Pilot. Component collections for LMQS and PPCart extend the capabilities of Pipeline Pilot, enabling you to write protocols for processing results lists and storing chemistry data in Oracle. In addition, the out-of-the-box Pipeline Pilot Database Search web client provides an easy to use interface that you can extend by including protocol-based tools to enable laboratory chemists and biologists to search, analyze and report on data from a variety of different data sources so that they can be more productive and make the right decision.

To learn more about Cheminformatics Collection, go to accelrys.com/cheminformatics

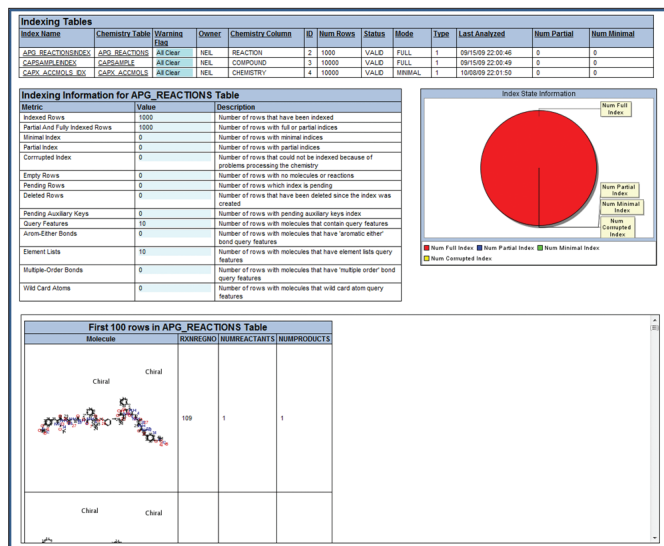


Figure 4: Viewing the status of cartridge indexes using an interactive dashboard