

PubsDemo

by Mai Nguyen, NeXT Developer Support Team

Overview

In order to run this example, you need to have a SYBASE server with a pubs database installed. The pubs database is a sample database provided with the SYBASE limited server package. The **SybaseDemo.dbmodela** from `/NextDeveloper/Examples/DatabaseKit/models` is used to establish the proper connections between the database model and the Database Kit UI Objects.

The purpose of this example is to show you how to quickly put together a simple database application without much programming by taking advantage of the Database Kit UI Objects such as `DBTableView` and `DBModule`.

After you are properly connected to the Sybase server, you can perform operations such as **Select**, **Insert**, **Save** or **Delete**. Note that an **Insert** or **Delete** won't take effect in the database until a **Save** operation is performed. All operations such as **Save**, **Delete** and **Select** are almost done without any coding. For simplicity's sake, there is no verification of the data entered via the `FormCells` for a **Save** or **Insert** operation.

Preferences Setting

You can retrieve the data in ascending or descending order by selecting the Sort Order with the Radio buttons. Note that the tag values of these Radio Buttons correspond to the actual constants defined in `dbkit/enums.h`.

You can either select all records by default, or qualify them by state of residence by entering the proper state into the textfield.

Program Organization

Major Classes in the Application

Controller A general manager object. A subclass of the Object class. Performs miscellaneous initializations and operations such as inserting, selecting and sorting.

Other Peculiarities

The primary key for inserting a new record is the social security number. It is not possible to insert a new record with a duplicate id (or social security number).

Topics Of Interest

The purpose of this example is to show you some simple examples of the usage of the DBKit UI Objects:

- How to extract the important DBKit elements from the UI Objects (DBDatabase, DBFetchGroup, etc.):

See the method **appDidInit:** in the file Controller.m.

- How to change the sort order when retrieving records

See the method **changeRetrieveOrder:** and **setRetrieveOrder:** in the file Controller.m.

- How to qualify a select operation using DBQualifier

See the method **buildSelectQualifier:** in the file Controller.m

- How to insert a new record to a database via the DBFetchGroup object

See the delegate method **fetchGroup:didInsertRecordAt:** in the file Controller.m

- How to use a DBBinder object to evaluate some arbitrary SQL query connected with the Pubs database:

See the method **evaluateSQL:** in the file Controller.m. Note that the DBBinder method **evaluateString:** only returns properties as results of the query. Instead of an arbitrary SQL query, one can also pass a Sybase stored procedure to the binder.

Credit

Thanks to David Stutz for help with the `evaluateString:` method.