

BiblioteQ

A Library Application

Document Version 1.05

Table of Contents

Introduction.....	3
Accessing an Existing SQLite Database.....	4
Adding an Item.....	5
Administrator Browser.....	6
Change Password.....	7
Connecting to a PostgreSQL Database.....	8
Creating a PostgreSQL Database.....	9
Creating an SQLite Database.....	10
Custom Query.....	11
Database Enumerations Browser.....	12
Disconnecting from a Database.....	13
Document Changes.....	14
Version 1.00.....	14
Version 1.01.....	14
Version 1.02.....	14
Version 1.03.....	14
Version 1.04.....	14
Version 1.05.....	14
Error Log.....	15
Exporting a Table View to a CSV File.....	16
Hyperlinks.....	17
Limitations.....	18
Main Window Tool Buttons.....	19
Members Browser.....	22
Member's Reservation History.....	23
Operating Systems.....	24
PDF.....	25
PostgreSQL Accounts.....	26
PostgreSQL unaccent().....	28
Preparing biblioteq.conf.....	29
Requesting an Item.....	32
Reserving an Item.....	33
SQL Injections.....	34
Returning an Item.....	35
SRU & Z39.50.....	36
Translations.....	37
Upgrading a PostgreSQL Database Schema.....	38
Upgrading an SQLite Database Schema.....	39

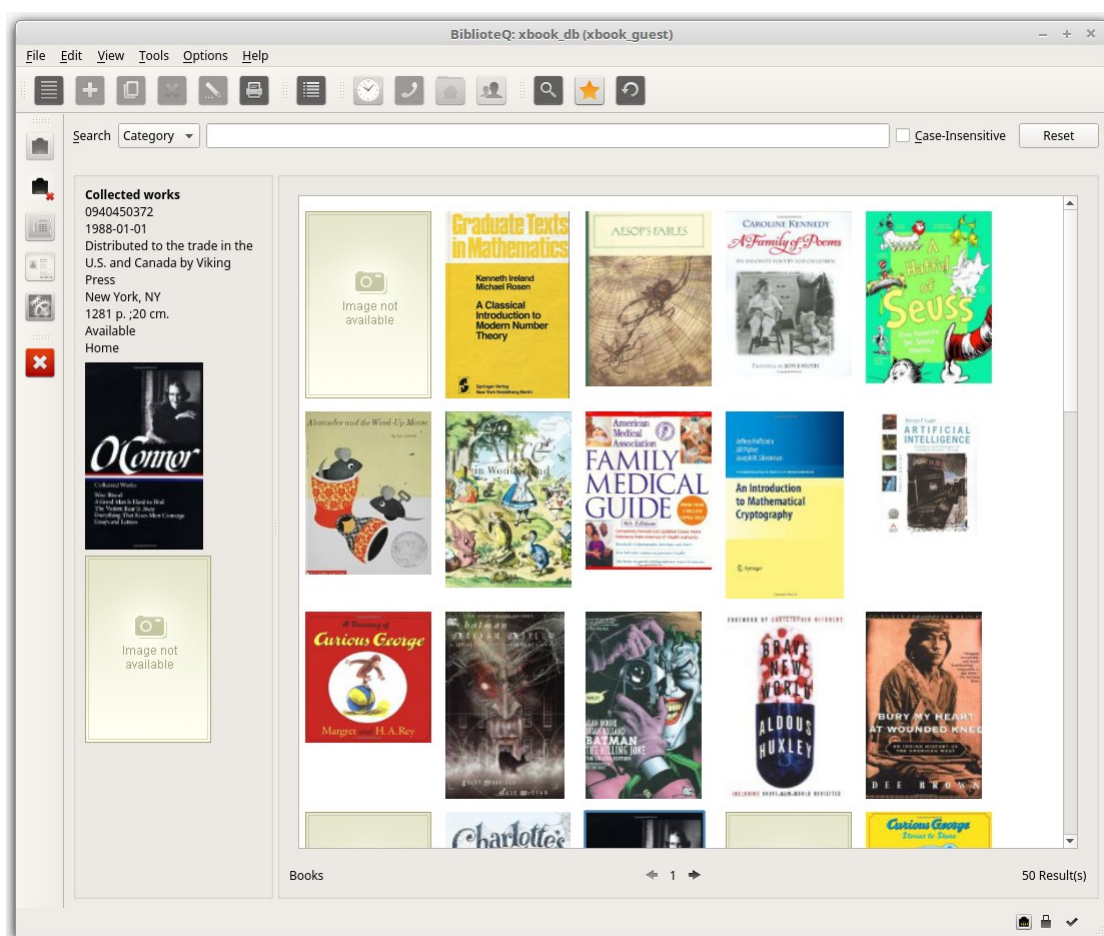
Introduction

BiblioteQ is a complex, highly-configurable, and mature library application. The software supports large, medium, and small institutions. Personal libraries are also supported.

BiblioteQ should be functional on any operating system where Qt 4.8.x (or Qt 5.x and newer), SQLite, and YAZ are supported. BiblioteQ also supports the PostgreSQL database engine.

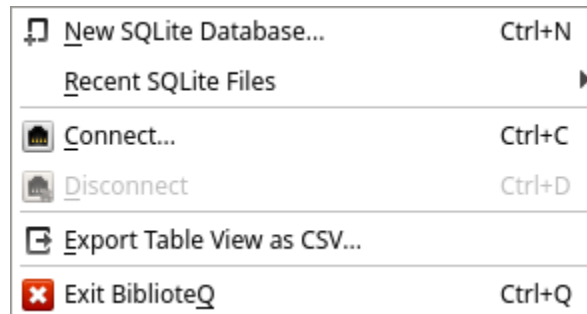
The source is available at <https://github.com/textbrowser/biblioteq>.

The purpose of this document is to detail the functionality of BiblioteQ. Installation instructions are not described in this document. Please refer to the Administrator Guide document for installation information.



Accessing an Existing SQLite Database

An existing SQLite database file may be opened via two methods. The first method involves the Recent SQLite Files option of the File menu.



The Recent SQLite Files sub-menu contains a list of BiblioteQ's recently-accessed SQLite files. If an SQLite file is selected, the specified SQLite database is opened. Please note that BiblioteQ will first close an existing database, if one is open, before opening the specified database. A Clear option is also included in the sub-menu. If Clear is activated, the list of the recently-accessed SQLite files is cleared. BiblioteQ will remove duplicate *sqlite_db_* entries from the INI file shortly after the application is launched. Also removed will be entries whose corresponding files lack read and write permissions.

The second method of accessing an SQLite database is through the Branch Selection dialog. The dialog may be accessed via the Connect option of the File menu.



After opening the Branch Selection dialog, select *local_db* as the Branch Name. This will prepare the dialog for accessing SQLite databases. Afterwards, click on the Select SQLite Database button to launch a file-selection dialog.

Adding an Item

For PostgreSQL databases, items may be added by administrator and librarian accounts. For SQLite databases, file owners may add items.

BiblioteQ supports books, compact discs, digital video discs, grey literature, journals, magazines, photograph collections, and video games.

To add an item, click on the Add Item tool button and select the desired category. A Create window will be displayed. Required fields are highlighted.

Administrator Browser

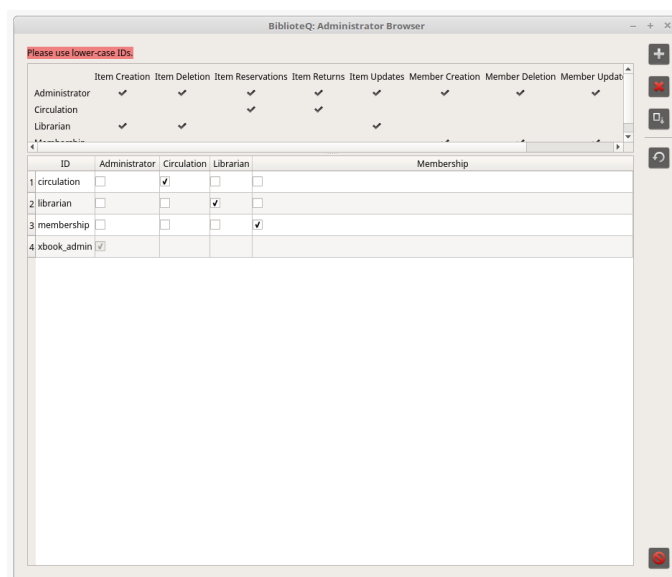
The Administrator Browser is available if an administrator role is connected to a PostgreSQL database. The browser may be accessed via the Configure Administrator Privileges tool button.

Four roles are available. Changes must be committed via the Save Changes button.

The process of committing changes to the PostgreSQL database is as follows:


1. The table's current state is inspected. Administrators without privileges as well as duplicate administrators are disclosed and the process is aborted.
2. A database transaction is prepared. If an error occurs, the process is aborted.
3. Deleted accounts are removed from the admin database table as well as from the PostgreSQL database. If an error occurs with either sub-process, the process is aborted and previous changes are reverted.
4. Existing admin table entries are updated. New accounts are inserted into the admin table. If an error occurs, the process is aborted and previous changes are reverted.
5. Existing admin table entries are granted the specified privileges after all potential privileges are revoked. New accounts are created in the PostgreSQL database and assigned the appropriate privileges. If an error occurs, the process is aborted and the previous changes are reverted.
6. If all of the aforementioned statements execute correctly, the transaction is committed.

Please note that leading and trailing spaces will be removed from user names during the database-recording process.



Change Password

A PostgreSQL account's password may be changed via the Password Selection dialog. A password must contain at least eight characters. Guest accounts are excluded.



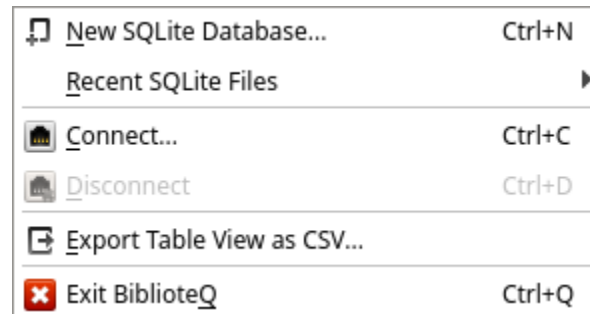
The image shows a dialog box titled "BiblioteQ: Password Selection" with a close button (X) in the top right corner. The dialog contains three input fields: "Userid" with the text "xbook_admin", "New Password" (indicated by a key icon), and "Confirm Password". At the bottom, there are two buttons: "Save" (with a checkmark icon) and "Cancel" (with a red X icon).

Userid	xbook_admin
New Password	
Confirm Password	

Save Cancel

Connecting to a PostgreSQL Database

BiblioteQ supports both the PostgreSQL and the SQLite database engines. This section will cover the details involved in connecting to a PostgreSQL database.



Click the Connect option of the File menu.



Select the appropriate non-local_db Branch Name if one is available. Provide the Password and Userid information, if applicable, and press the Connect button.

Note: The sections Accessing an Existing SQLite Database and Creating an SQLite Database cover the details of accessing and creating SQLite databases, respectively.

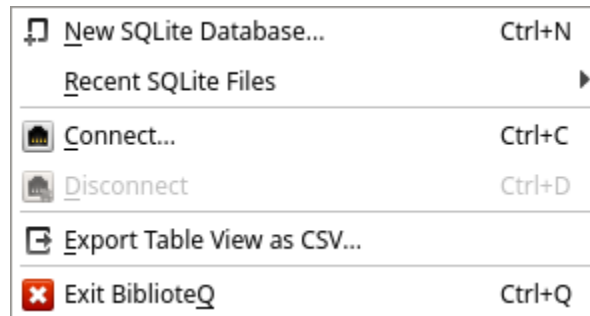
Creating a PostgreSQL Database

BiblioteQ supports PostgreSQL 8.x, 9.x, and newer. Please follow the PostgreSQL-provided documentation for installing PostgreSQL. After installing the required PostgreSQL packages, please perform the following operations:

1. Create the xbook_db database via `createdb xbook_db -E UTF8` or via the PostgreSQL-recommended procedure. Please note that the database name xbook_db is only a suggestion.
2. Execute `createlang plpgsql -d xbook_db` or the PostgreSQL-recommended procedure for adding a new programming language to the xbook_db database.
3. If desired, replace all instances of the default administrator xbook_admin in the postgresql_create_schema.sql file.
4. Log into your PostgreSQL xbook_db database and load the postgresql_create_schema.sql file via `\i postgresql_create_schema.sql`. While logged in, please load the unaccent extension via `CREATE EXTENSION IF NOT EXISTS unaccent`. You may remove the extension via the `DROP EXTENSION` command.

Creating an SQLite Database

A new BiblioteQ SQLite database file may be created via the New SQLite Database option of the File menu.



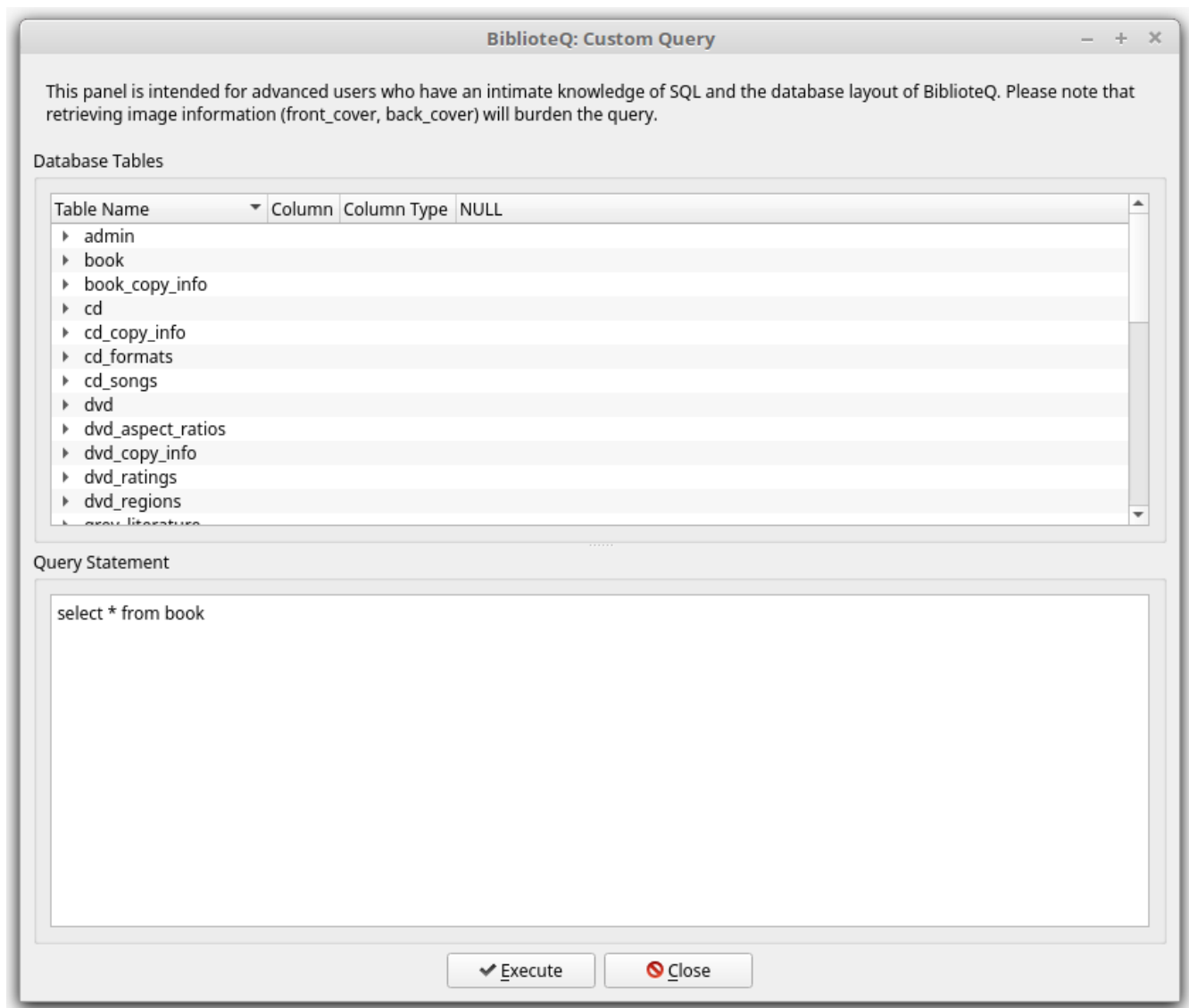
After the option is selected, a file-selection dialog is displayed. An existing or a new file may be specified. A confirmation dialog is displayed if an existing file is selected.

Once the SQLite database file has been initialized, BiblioteQ will open it. If a database is already open, a confirmation prompt is displayed. If confirmed, the current database is closed and the newly-created database is opened.

Custom Query

Custom SQL queries may be performed via the Custom Query window.

After a successful query is performed, the main table's columns will be set according to the query statement.

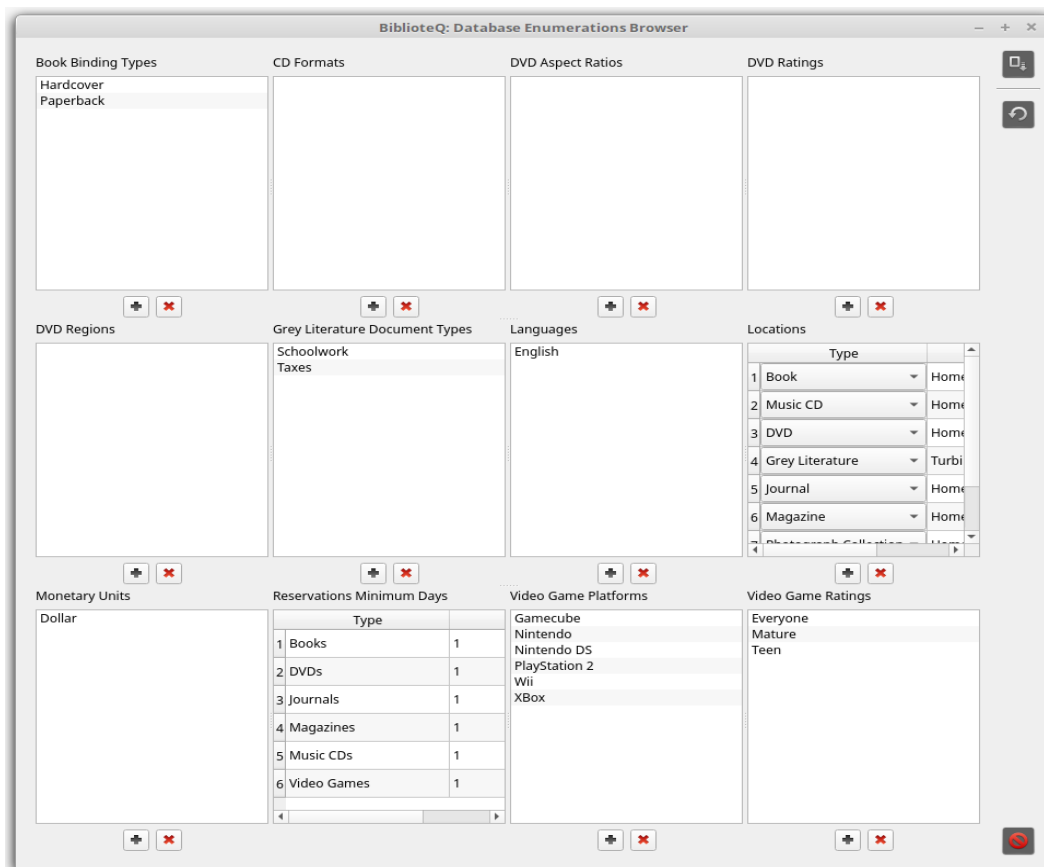


Database Enumerations Browser

The Database Enumerations Browser is available to accounts having administrator or librarian privileges and is accessible via the Database Enumerations tool button. The browser contains configurable item values.

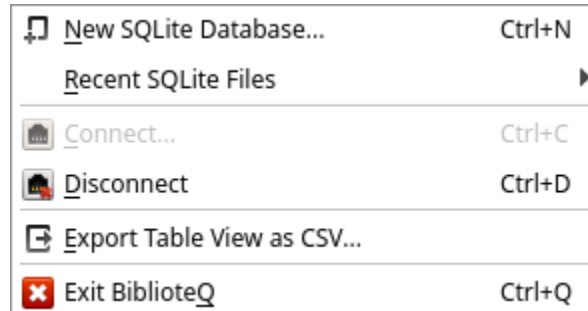
The process of committing changes to a database is as follows:

1. For each sub-panel (Book Binding Types, etc.), a database transaction is prepared. If an error occurs, the process iterates to the next sub-panel.
2. All items in the respective database table are deleted. For example, for the Book Binding Types sub-panel, all entries from the `book_binding_types` database table are deleted. If the process fails, changes are reverted and the process proceeds to the next sub-panel.
3. New values are inserted into the respective database table. If the process fails, changes are reverted and the process proceeds to the next sub-panel.
4. The current database transaction is committed.



Disconnecting from a Database

To disconnect from a connected database, click the File menu. Then click the Disconnect option.



Document Changes

Version 1.00

- Initial version.

Version 1.01

- New Tools menu image.

Version 1.02

- Corrected Configure Administrator Privileges button name.
- Corrected Index entries.

Version 1.03

- ASIN support for Amazon image retrieval.

Version 1.04

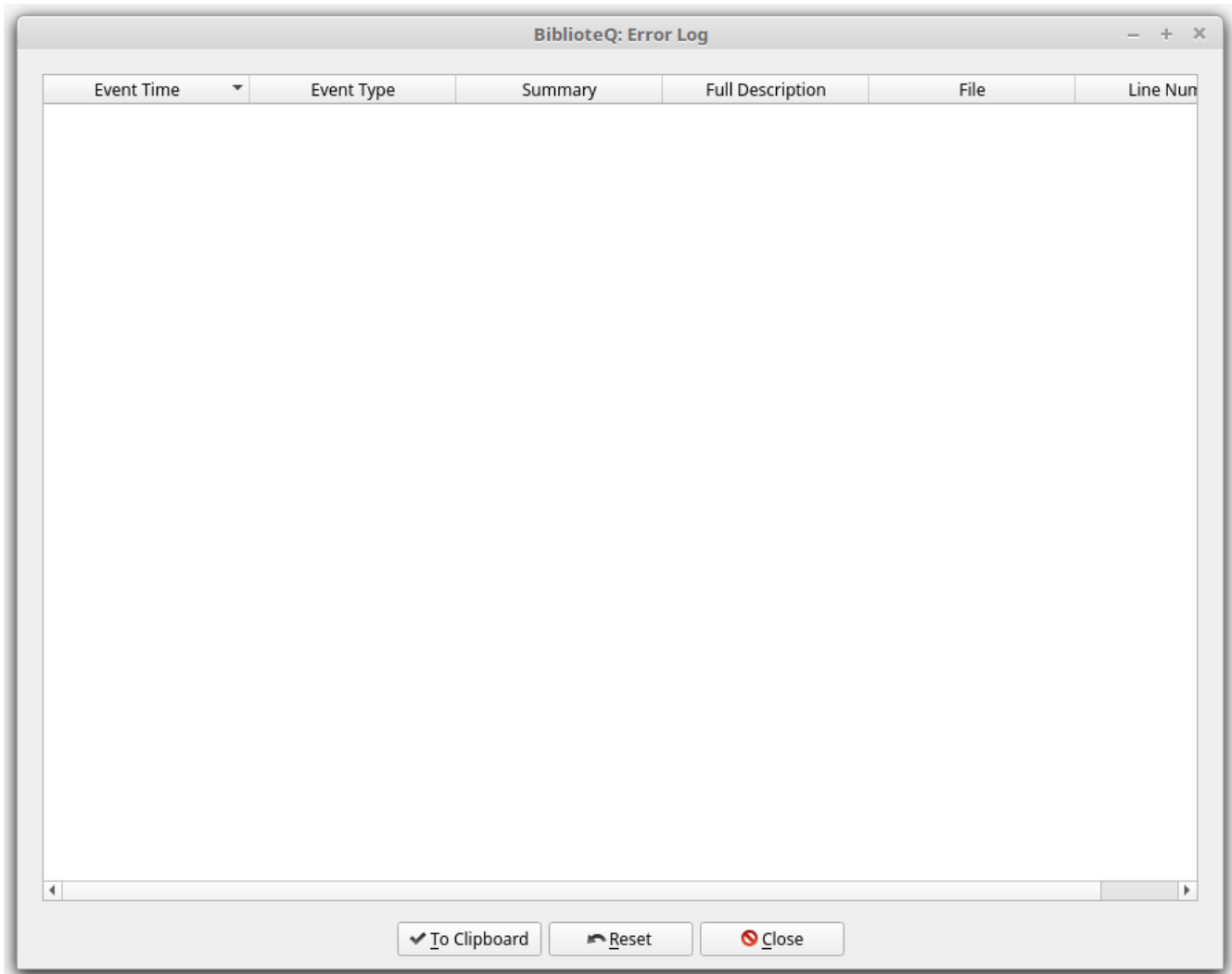
- PostgreSQL unaccent().
- Various structure changes.

Version 1.05

- Open Library images.
- SQL injections information.

Error Log

The Error Log may be accessed via the View menu. The window details critical exceptions which were raised during a BiblioteQ session. The status bar of the main window will indicate whether or not the log contains entries.



Exporting a Table View to a CSV File

The current table view's contents may be exported to a CSV file via the Export Table View as CSV option of the File menu.



If clicked, a file-selection dialog is displayed.

The generated CSV file will contain comma-separated values. Values which contain commas will be encased in double-quotes. For example, *A book of abstract algebra,"Pinter, Charles C.",McGraw-Hill,1990-01-01,New York,2,"Algebra, Abstract.",English,0070501386,0.00,Dollar,1,Hardcover,Home,9780070501386,89035355,QA162 .P56 1990,512/.02,1,0,Original,As New,.*

The first line of the generated file contains the exported view's header strings.

Hyperlinks

BiblioteQ supports embedded hyperlinks. When clicked, a search is initiated using the specified text for the given category. Please note that a clicked hyperlink will not be activated if the parent widget is editable.

Publisher	Barnes & Noble Classics
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Limitations

BiblioteQ does not impose artificial limits on the data content. However, this does not mean that the software is boundless. Please note that both PostgreSQL and SQLite have rigid limitations. Please read <https://www.sqlite.org/limits.html> for SQLite details.

Generally:

- Attached files may be of any size. Please note that submitting large files will burden both local and remote queries. PostgreSQL and/or SQLite may limit field sizes.
- Infinitely-many items may be stored, although PostgreSQL and/or SQLite may prevent this.
- Pagination is implemented with the use of the LIMIT and OFFSET clauses.
- The number of PostgreSQL accounts is not limited through the software.

Main Window Tool Buttons

This page will describe the various tool buttons which are present on the main window.



The tool buttons are described from left to right.

View Selected Item(s)

Open the detail window(s) of the selected item(s). A confirmation prompt is displayed if the number of selected items exceeds four. The tool button is disabled if the current account has administrator privileges.

Add Item

Add an item. The tool button is disabled if the current account does not have Item Creation privileges.

Duplicate Selected Item(s)

Open the detail window(s) of the selected item(s). A confirmation prompt is displayed if the number of selected items exceeds four. The tool button is disabled if the current account does not have Item Creation privileges.

Delete Selected Item(s)

Delete the selected item(s). A confirmation prompt is displayed. The tool button is disabled if the current account does not have Item Deletion privileges.

Modify Selected Item(s)

Modify the selected item(s). A confirmation prompt is displayed if the number of selected items exceeds four. The tool button is disabled if the current account does not have Item Updates privileges.

Print Current View

Print the items in the current view. A Print dialog is displayed.

Select Viewable Columns

Select the columns that are to be shown in the main window's table.

View Member's Reservation History (Patrons Only)

Display the current patron's reserved items. The tool button is enabled only for patron accounts.

Request Selected Item(s) / Cancel Selected Request(s)

BiblioteQ

Available for patrons, these options allow for the requesting of items as well as for the canceling of requested items.

Reserve Selected Item

Reserve the selected item. The tool button is disabled if the current account does not have Item Reservations privileges.

Display Members Browser

Display the Members Browser window. Only available for administrator, circulation, and membership accounts.

Database Search

Activates a context menu containing various search options.

Custom Database Query

Display the Custom Query window.

Refresh Table

Reload the current view.



Again, the tool buttons are described from left to right.

Connect

Display the Branch Selection dialog.

Disconnect

Disconnect from the current database.

Change Password

Display the Password Selection dialog. Not available for PostgreSQL guest accounts and SQLite databases.

Configure Administrator Privileges

Display the Administrator Browser window. Only available for administrator accounts.

Database Enumerations

BiblioteQ

Display the Database Enumerations Browser window. Only available for administrator and librarian accounts.

Exit BiblioteQ

Terminate the application.

Members Browser

The Members Browser is available off of the View menu. For PostgreSQL databases, the browser is accessible if the current role is administrator, circulation, or membership. For SQLite databases, access to the browser is always available.

The browser allows administrators to create, delete, and modify patron account details. Reservation processes are also available in the Members Browser.

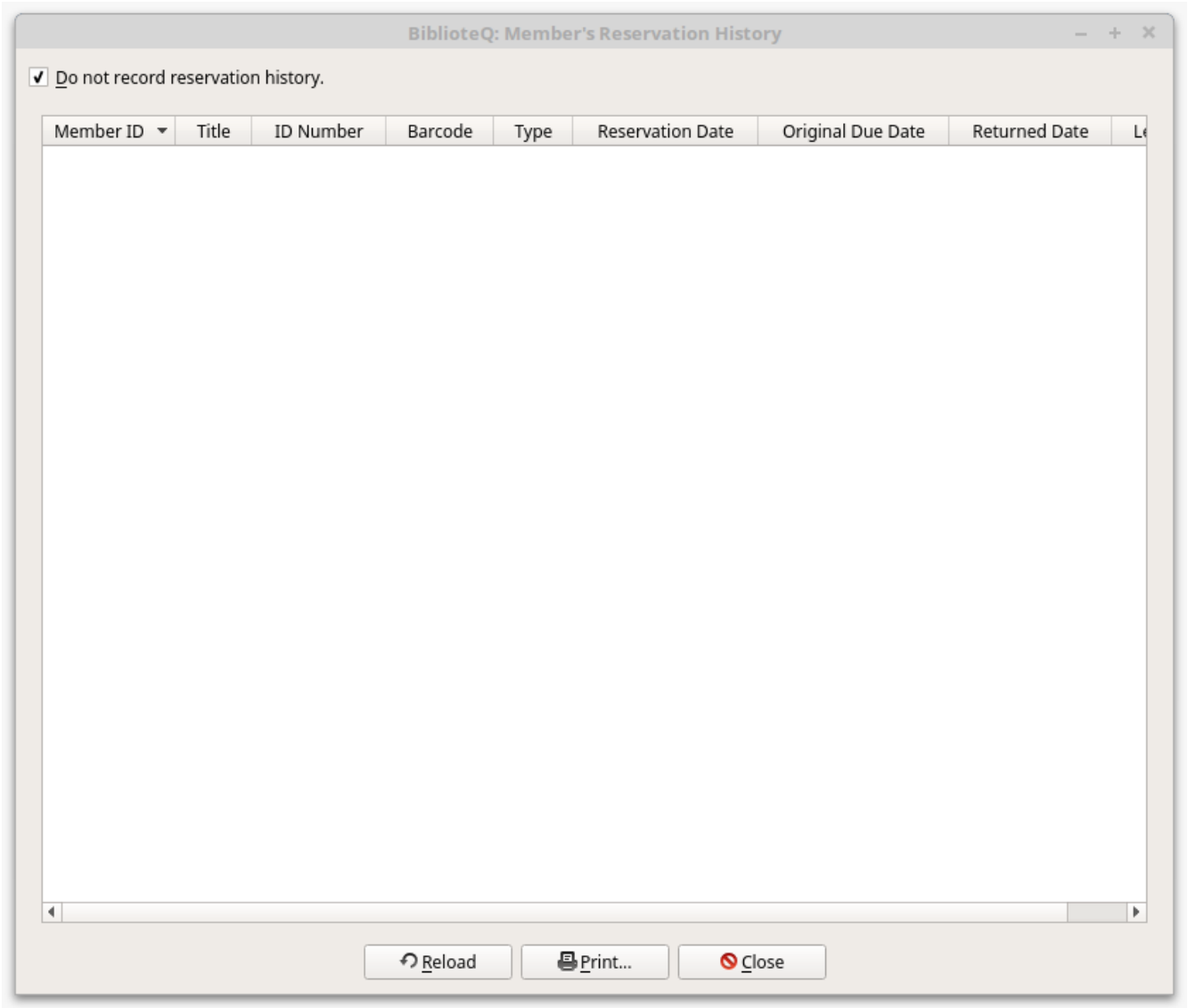
Grant Privileges

Grant Privileges is available for PostgreSQL databases. If pressed, each listed account is removed from and added to the biblioteq_patron role.

The screenshot displays the 'BiblioteQ: Members Browser' window. At the top, there is a 'Filter' section with a dropdown menu set to 'Member ID' and an 'Apply Filter' button. Below this is a table with columns: 'Member ID', 'First Name', 'Last Name', 'Member Since', and 'Expiration Date'. A modal dialog titled 'BiblioteQ: Create New Member' is open in the center. It has two tabs: 'General' (selected) and 'Site'. The 'General' tab contains the following fields: 'Member ID' (text input with 'm20180417151850'), 'Member Since' (date dropdown with '2018-04-17'), 'First Name' (text input), 'Last Name' (text input), 'Middle Initial' (text input), 'Date of Birth' (date dropdown with '1993-04-17'), 'Sex' (dropdown with 'Private'), 'Street' (text input), 'City' (text input), 'State & ZIP Code' (two dropdowns, both with 'N/A'), 'Telephone Number' (text input), 'E-Mail Address' (text input), 'Expiration Date' (date dropdown with '3000-01-01'), 'Overdue Fees' (numeric input with '0.00'), and 'Comments' (text area). At the bottom of the dialog are 'Save' and 'Close' buttons. The right sidebar of the main window contains several icons: a plus sign, a minus sign, a magnifying glass, a clock, a list, a printer, a house, a key, a calendar showing '01', and a refresh icon.

Member’s Reservation History

A patron’s reservation history may be accessed via the Member’s Reservation History window. Reservation histories are initially disabled.



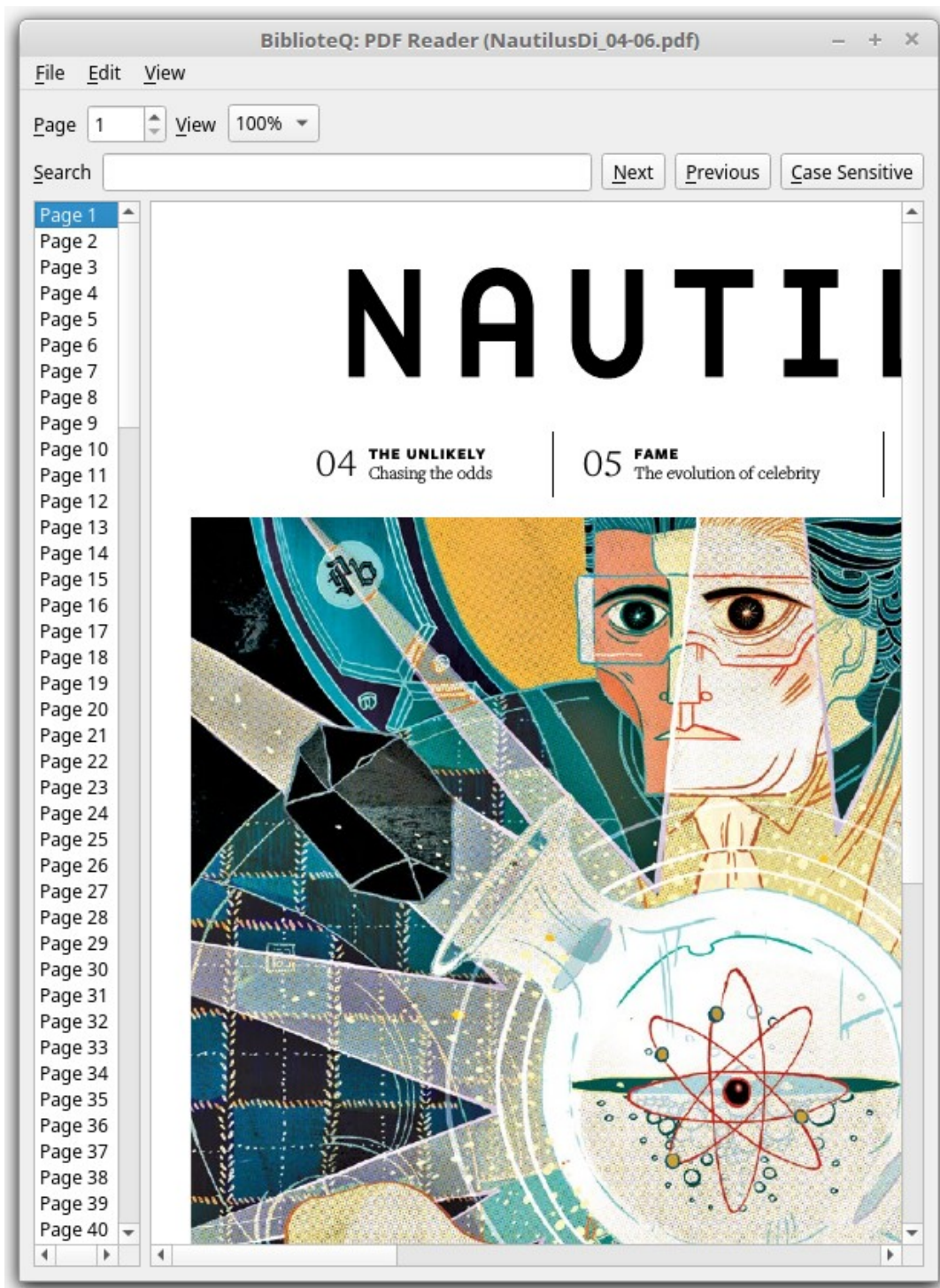
Operating Systems

BiblioteQ supports FreeBSD, Linux, Mac OS X, OS/2, OpenBSD, and Windows. Generally, the application should be compatible with any operating system where Qt, SQLite, and YAZ are supported. The software has also been tested on a variety of architectures, including AMD, ARM, Alpha 21264, PowerPC, and Sun UltraSparc.

BiblioteQ

PDF

BiblioteQ supports PDF content through the Poppler open source library. Browsing, printing, and searching options are included. Support is optional.



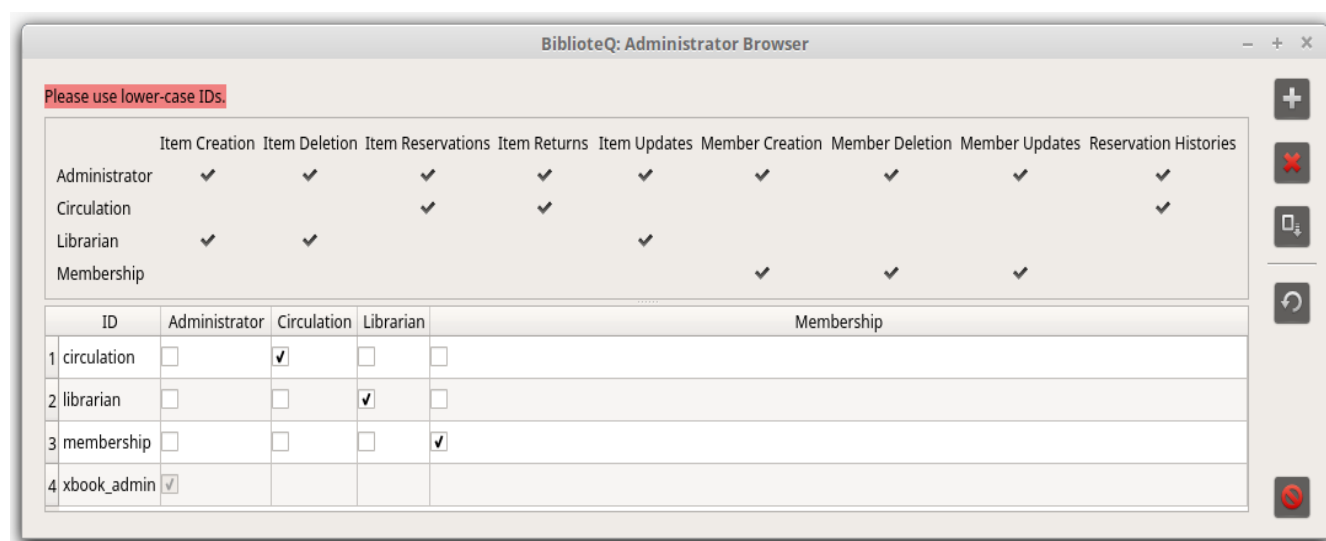
PostgreSQL Accounts

BiblioteQ provides three tiers of PostgreSQL database roles: administrator, guest, and patron.

Initially, the postgresql_create_schema.sql script may be used to create the administrator account xbook_admin.

Guest roles are provided a read-only interface. Patron roles are granted reservation permissions.

PostgreSQL accounts may be modified via the Administrator Browser. Please note that the Administrator Browser is only available within an administrator role.



Additionally, there are four administrator levels: Administrator, Circulation, Librarian, and Membership. The abilities of each level is described next.

Administrator permissions:

- Item Creation
Ability to create books, etc.
- Item Deletion
Ability to remove books, etc.
- Item Reservations
Ability to reserve items.
- Item Returns
Ability to process returned items.

BiblioteQ

- Item Updates
Ability to modify books, etc.
- Member Creation
Ability to create administrators and patrons.
- Member Deletion
Ability to remove administrators and patrons.
- Member Updates
Ability to update information of patrons and permissions of administrators.
- Reservation Histories
Ability to read reservation histories of patrons.

Circulation permissions:

- Item Reservations
- Item Returns
- Reservation Histories

Librarian permissions:

- Item Creation
- Item Deletion
- Item Updates

Membership permissions:

- Member Creation
- Member Deletion
- Member Updates

PostgreSQL unaccent()

BiblioteQ supports PostgreSQL's unaccent() extension. Documentation describing the unaccent() function is located at <https://www.postgresql.org/docs/current/unaccent.html>.

Greek-language users may wish to supplement their unaccent.rules files with information contained at <https://gist.github.com/marinoszak/7d5d6a8670faae0f4589c2da988f2ba3>. The PostgreSQL database may require restarting after a rules file is altered.

Preparing biblioteq.conf

The biblioteq.conf file contains non-user settings. The location of the file varies with distribution. This page will describe the various properties which may be defined in the biblioteq.conf file.

[Amazon Back Cover Images]

Describes required settings for retrieving book back-cover images from amazon.com.

host

Host name of the Amazon image server.

path

Path of the image file. BiblioteQ substitutes the respective ISBN in the percent sign. Please note that ASINs may also work.

The optional properties proxy_host, proxy_password, proxy_port, proxy_type, and proxy_username are also supported. The proxy_type property supports values of HTTP, None, Socks5, and System.

[Amazon Front Cover Images]

Describes required settings for retrieving book front-cover images from amazon.com.

host

Host name of the Amazon image server.

path

Path of the image file. BiblioteQ substitutes the respective ISBN in the percent sign. Please note that ASINs may also work.

The optional properties proxy_host, proxy_password, proxy_port, proxy_type, and proxy_username are also supported. The proxy_type property supports values of HTTP, None, Socks5, and System.

[Branch-1]

The first database branch.

connection_options

PostgreSQL-specific connection options. An example is *connect_timeout=10;sslmode=verify-full*.

database_name

The name of the database as it will appear in the Branch Selection dialog.

BiblioteQ

database_type

The database's type. Must be set to postgresql or sqlite.

hostname

The host name of the PostgreSQL database server. Both IP addresses and fully-qualified domain names may be assigned.

port

The port value of the PostgreSQL database server.

ssl_enabled

If false, SSL/TLS communications are disabled.

[Open Library Cover Images]

Describes required settings for retrieving book cover images from covers.openlibrary.org.

back_url

URL of the back-cover image file. BiblioteQ substitutes the respective ISBN in the \$value field.

front_url

URL of the front-cover image file. BiblioteQ substitutes the respective ISBN in the \$value field.

[SRU-1]

Describes the first SRU site.

name

Name of the site as it will appear in the application.

url_isbn

Complete URL of the site for retrieving data via ISBNs. The tokens %1 and %2 are replaced by the ISBN-10 and ISBN-13 fields.

url_issn

Complete URL of the site for retrieving data via ISSNs. The token %1 is replaced by the ISSN field.

The optional properties proxy_host, proxy_password, proxy_port, proxy_type, and proxy_username are also supported. The proxy_type property supports values of HTTP, None, Socks5, and System.

[Z39.50-1]

BiblioteQ

Describes the first Z39.50 site. Please also see <http://www.indexdata.com/yaz/doc/zoom.records.html>.

database_name

The remote database name.

format

Render format. An example: *marc8,utf-8*.

name

Name of the site as it will appear in the application.

port

The remote database's port number.

record_syntax

Preferred record syntax. Example: *MARC21*.

The optional properties password, proxy_host, proxy_port, and username are also supported.

Requesting an Item

PostgreSQL patrons may request one or more books, compact discs, digital video discs, journals, magazines, and video games. After selecting an item, please press the green Telephone tool button. To cancel a request, please set the Category to All Requested, select the desired item, and press the red Telephone tool button. A confirmation dialog is displayed and if accepted, the selected request is canceled.

Reserving an Item

For PostgreSQL databases, items may be reserved by administrator and circulation accounts. Owners of SQLite databases may reserve items. Books, compact discs, digital video discs, journals, magazines, and video games may be reserved. To reserve an item, select it in the main window and press the Reserve Selected Item tool button. If the item is available for reservation, the Members Browser will be displayed. Select the desired patron in the Members Browser and press the Reserve Selected Item tool button in the Members Browser. The Copy Browser dialog is displayed. Specify the Due Date and select the desired copy. Finalize the reservation process by clicking the Reserve button.

Please note that the default Due Date may be modified via the Database Enumerations Browser.

SQL Injections

Most BiblioteQ queries are parameterized. Prepared statements are resilient against SQL injections. Please note that some fixed fields (for instance, Locations) are embedded in the statements.

Returning an Item

For PostgreSQL databases, reserved items may be returned by administrator and circulation accounts. Owners of SQLite databases may return reserved items. The quickest method of identifying reserved items is by the All Reserved category of the View menu. An item may be returned via its details window. Open the selected item's details and click the Reservation Status button. The Item Reservation Status dialog is displayed. Select the copy which is about to be returned and click the Return button. Confirm the process.

BiblioteQ

SRU & Z39.50

BiblioteQ supports both the SRU and Z39.50 Internet search queries for books, journals, and magazines. Sites may be defined within the biblioteq.conf file.

Translations

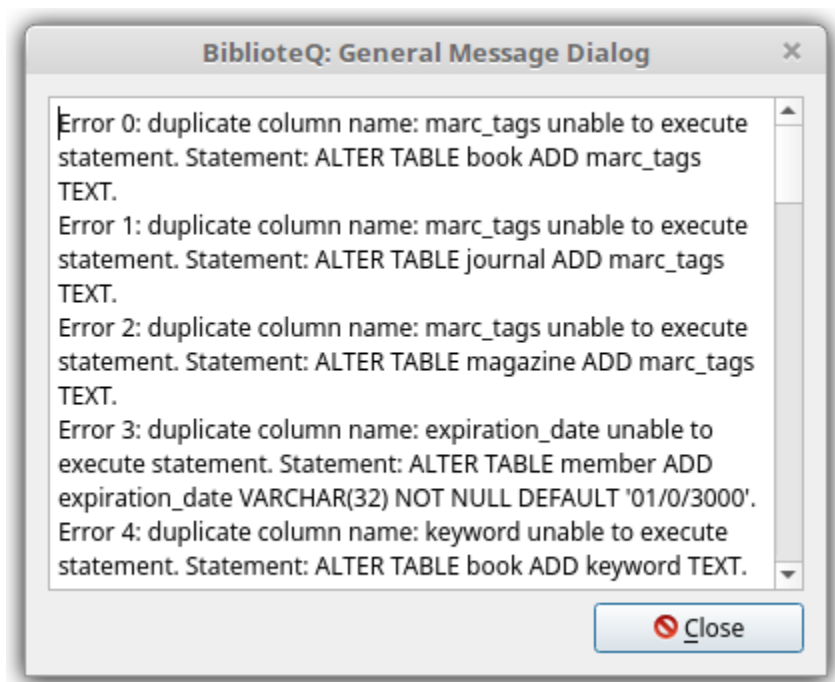
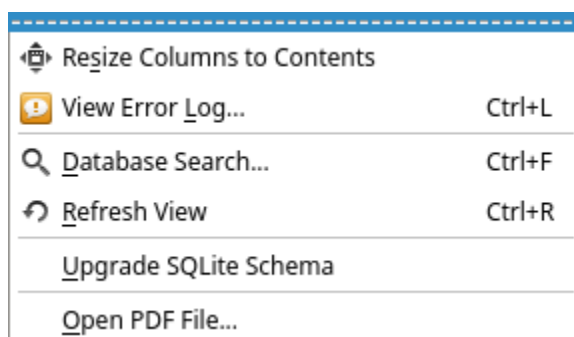
Translations are incomplete. Translating BiblioteQ is quite simple. Please download and install Qt from <https://download.qt.io>, download BiblioteQ's source, and become an expert in Qt's Linguist. Linguist documentation is available at <https://doc.qt.io/qt-5/qtlinguist-index.html>.

Upgrading a PostgreSQL Database Schema

Some software releases require database schema changes. Please read the version-specific section of the `postgresql_update_schema.sql` file and execute the required SQL statements.

Upgrading an SQLite Database Schema

It may be necessary to upgrade an existing BiblioteQ SQLite database schema after a software release. An upgrade tool is available off of the Tools menu. A confirmation prompt is displayed before the process is initiated. After the upgrade process is completed, a dialog depicting abnormalities will be displayed.



Index

21264.....	24 Database Search.....	20
Accessing an Existing SQLite Database.....	8 database_name.....	29, 31
Add Item.....	5, 19 database_type.....	30
admin.....	6 Delete Selected Item(s).....	19
administrator.....	5p., 12, 19pp., 26, 33, 35 digital video discs.....	5, 32p.
Administrator.....	26 Disconnect.....	13, 20
Administrator Browser.....	6, 20, 26 Display Members Browser.....	20
Administrator Guide.....	3 Due Date.....	33
All Requested.....	32 Duplicate Selected Item(s).....	19
All Reserved.....	35 Error Log.....	15
Alpha.....	24 Exit BiblioteQ.....	21
AMD.....	24 Export Table View as CSV.....	16
ARM.....	24 File.....	4, 8, 10, 13, 16
ASIN.....	14 format.....	31
ASINs.....	29 FreeBSD.....	24
back_url.....	30 front_url.....	30
biblioteq_patron.....	22 Grant Privileges.....	22
biblioteq.conf.....	29, 36 grey literature.....	5
Book Binding Types.....	12 guest.....	20, 26
books.....	5, 32, 36 host.....	29
Books.....	33 hostname.....	30
Branch Name.....	4, 8 HTTP.....	29p.
Branch Selection.....	4, 20, 29 hyperlinks.....	17
Category.....	32 Item Creation.....	19, 26p.
Change Password.....	20 Item Deletion.....	19, 26p.
circulation.....	20, 22, 33, 35 Item Reservation Status.....	35
Circulation.....	26 Item Reservations.....	20, 26p.
Clear.....	4 Item Returns.....	26p.
compact discs.....	5, 32p. Item Updates.....	19, 27
Configure Administrator Privileges.....	6, 14, 20 journals.....	5, 32p., 36
Connect.....	4, 8, 20 librarian.....	5, 12, 21
connection_options.....	29 Librarian.....	26
Copy Browser.....	33 LIMIT.....	18
Create.....	5 Linguist.....	37
createdb.....	9 Linux.....	24
createlang.....	9 local_db.....	4, 8
Creating an SQLite Database.....	8 Mac OS X.....	24
CSV.....	16 magazines.....	5, 32p., 36
Custom Database Query.....	20 Member Creation.....	27
Custom Query.....	11 Member Deletion.....	27
Database Enumerations.....	12, 20 Member Updates.....	27
Database Enumerations Browser.....	12, 21, 33 Member's Reservation History.....	23

BiblioteQ

Members Browser.....	33	Reservation Histories.....	27
membership.....	20, 22	Reservation Status.....	35
Membership.....	26	Reserve.....	33
Modify Selected Item(s).....	19	Reserve Selected Item.....	20, 33
name.....	30	Save Changes.....	6
New SQLite Database.....	10	Select SQLite Database.....	4
None.....	29p.	Select Viewable Columns.....	19
OFFSET.....	18	Socks5.....	29p.
OpenBSD.....	24	sqlite.....	30
OS/2.....	24	SQLite.....	3pp., 8, 10, 18, 22, 24, 39
Pagination.....	18	SRU.....	36
password.....	7, 31	ssl_enabled.....	30
Password.....	8	Sun UltraSparc.....	24
Password Selection.....	7, 20	System.....	29p.
path.....	29	Telephone.....	32
patron.....	19, 26	Tools.....	14, 39
patrons.....	32	Translations.....	37
PDF.....	25	unaccent().....	14
photograph collections.....	5	unaccent().....	28
plpgsql.....	9	upgrade.....	39
Poppler.....	25	url_isbn.....	30
port.....	30p.	url_issn.....	30
postgresql.....	30	Userid.....	8
PostgreSQL.....	3, 5p., 8p., 18, 22, 26, 32p., 35	username.....	31
postgresql_create_schema.sql.....	9, 26	video games.....	5, 32p.
postgresql_update_schema.sql.....	38	View.....	15, 22, 35
PowerPC.....	24	View Member's Reservation History (Patrons	
Print Current View.....	19	Only).....	19
proxy_host.....	29pp.	View Selected Item(s).....	19
proxy_password.....	29p.	Windows.....	24
proxy_port.....	29pp.	xbook_admin.....	9, 26
proxy_type.....	29p.	xbook_db.....	9
proxy_username.....	29p.	YAZ.....	3, 24
Qt.....	24, 37	Z39.50.....	36
Qt 4.8.x.....	3	Administrator Privileges.....	6
Qt 5.x.....	3	[Amazon Back Cover Images].....	29
Recent SQLite Files.....	4	[Amazon Front Cover Images].....	29
record_syntax.....	31	[Branch-1].....	29
Refresh Table.....	20	[Open Library Cover Images].....	30
Request Selected Item(s) / Cancel Selected		[SRU-1].....	30
Request(s).....	19	[Z39.50-1].....	30