

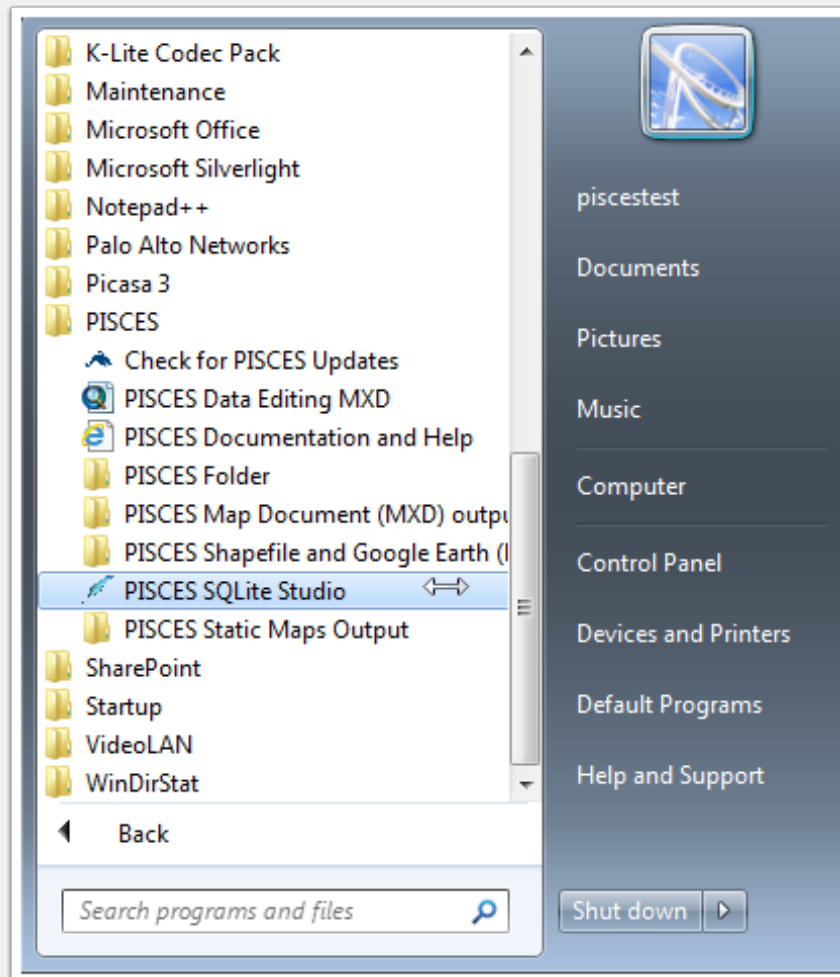
# Database

PISCES stores all data, tables and records in a relational database called pisces.sqlite. The PISCES setup wizard installs a program called SQLiteStudio to view, manage and edit the underlying database. Please see the PISCES Installation and Getting Started guide for more information.

## Opening PISCES SQLiteStudio

PISCES SQLiteStudio is located in the PISCES start menu section (on Windows 8, type PISCES to search)

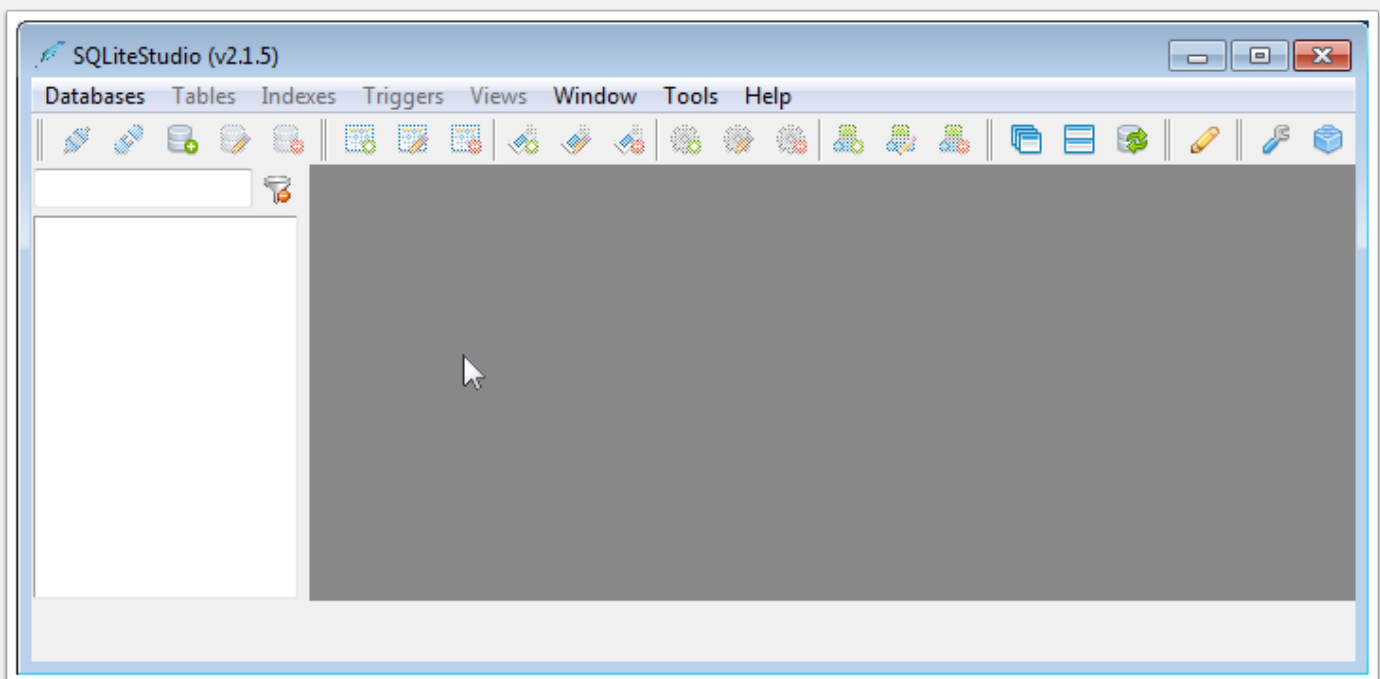
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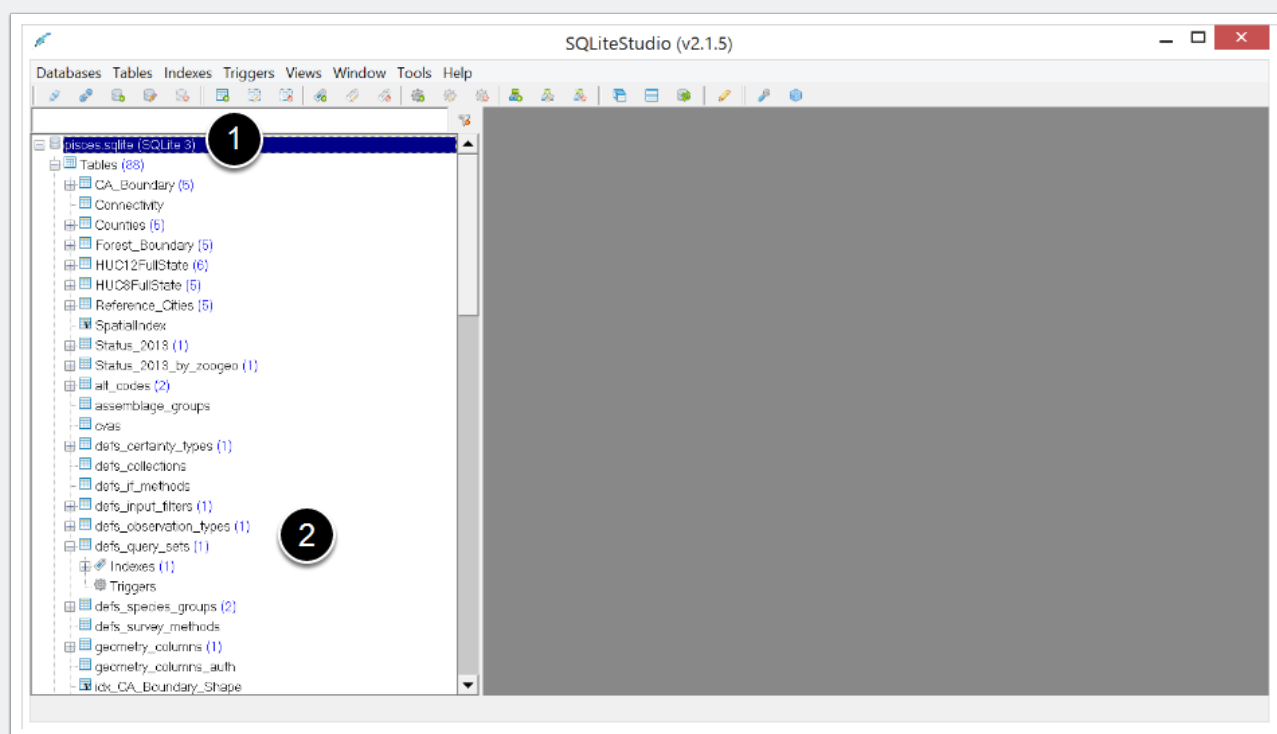
## Establishing Database Connection

If SQLiteStudio opens up empty, you need to establish a connection to the PISCES database (*pisces.sqlite*). Please refer to the **PISCES Installation and Getting Started guide** for more information about establishing a database connection. Establishing a database connection typically only needs to be set the first time that you open SQLiteStudio.



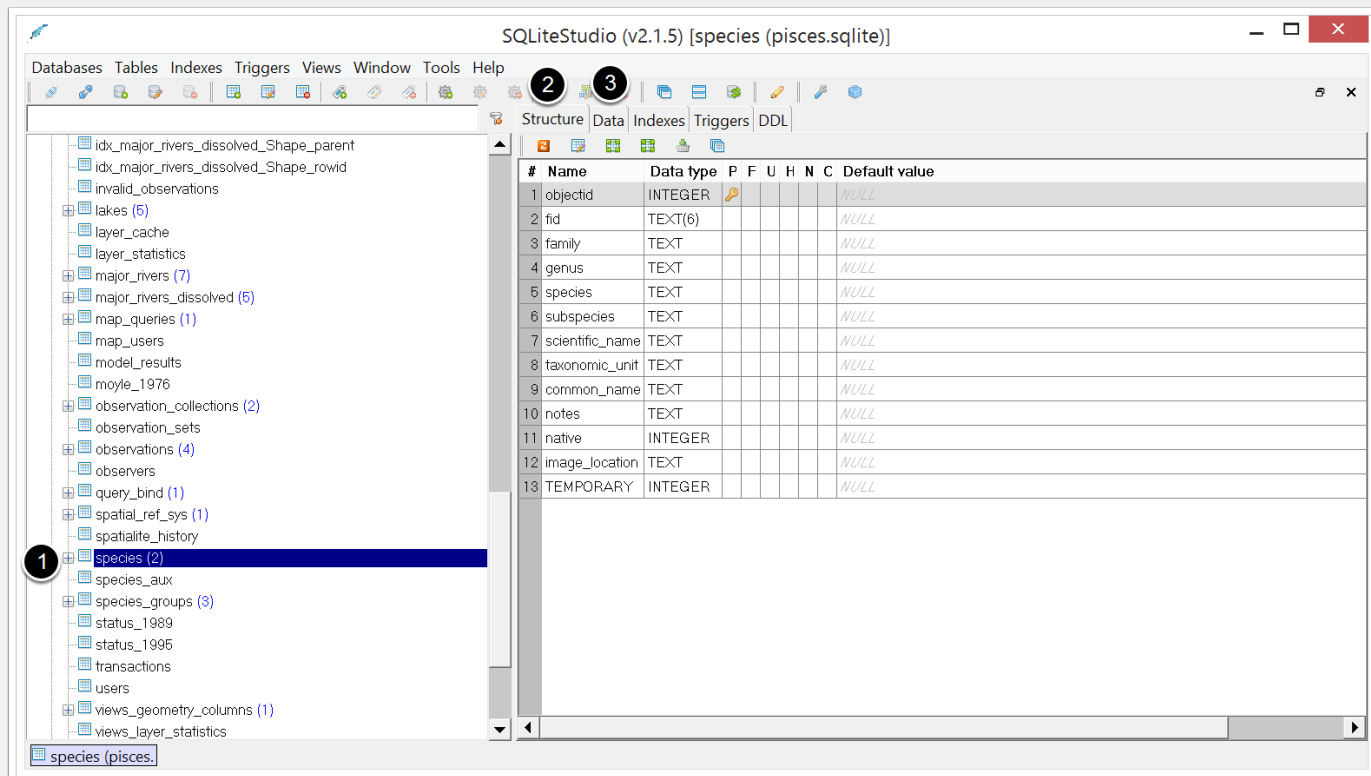
## Tables

1. Double click pisces.sqlite in the left hand column to expand the table tree.
2. Tables serve several functions
  1. defs - define the possible values for tables
  2. tables - stores values and records
  3. spatial data - features including HUCs, water and boundaries (not for humans to modify!!!!)



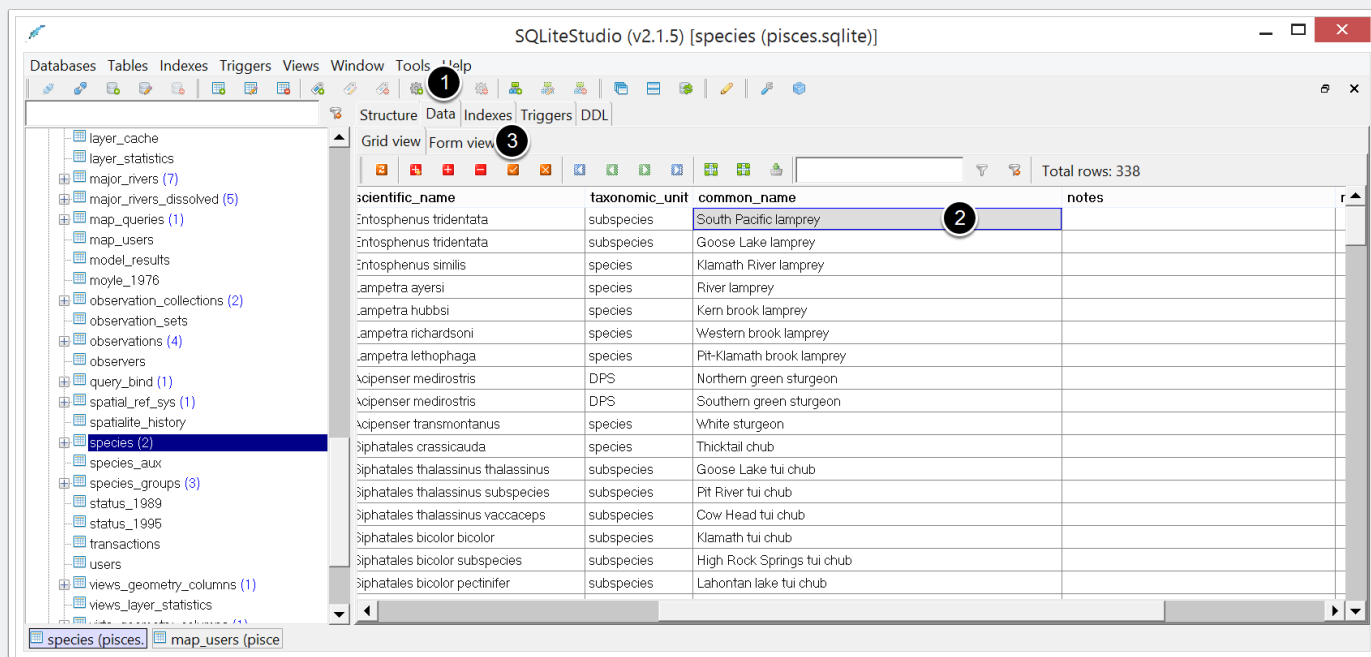
## Viewing tables

1. Open a table by double clicking on the table name in the left column hierarchy
2. The **Structure** tab contains attribute information about the fields in the table.
3. The **Data** tab contains the values in the table.



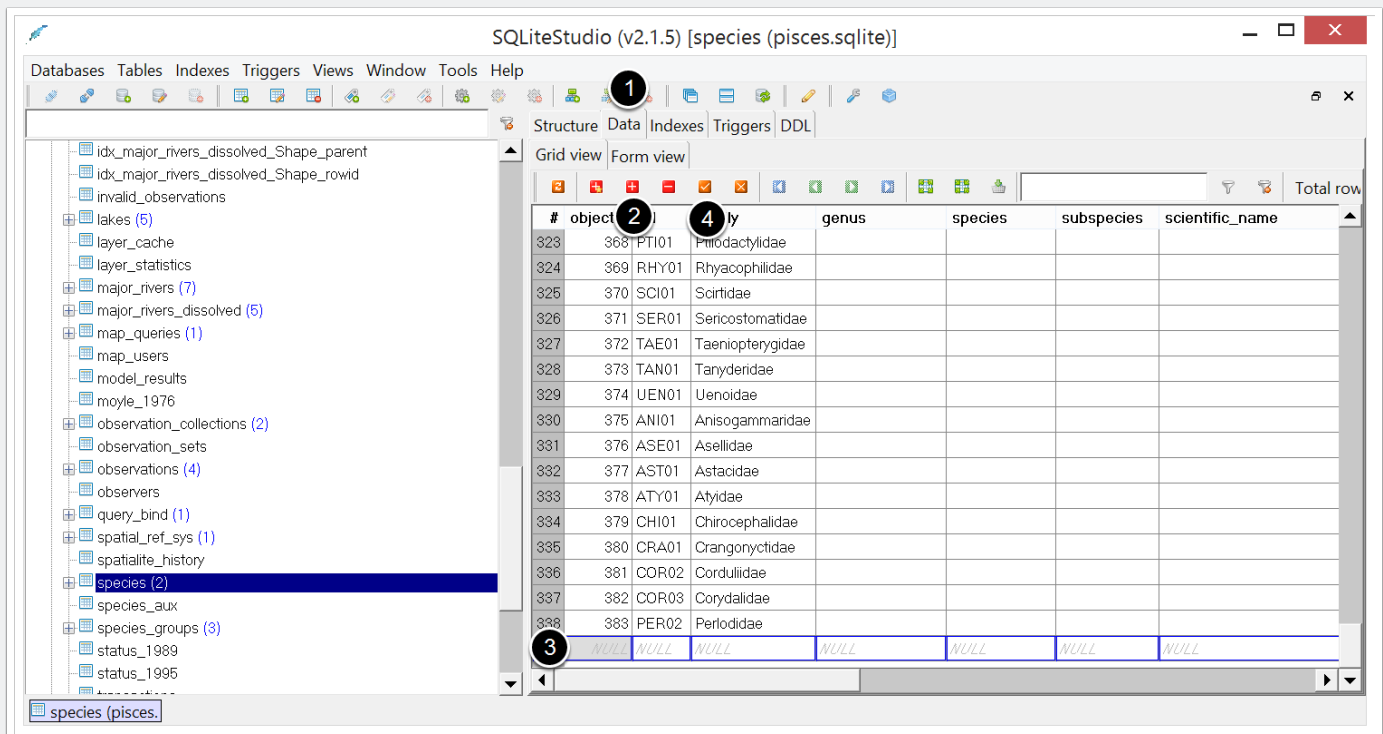
## Edit values in a table

1. Open the **Data** tab for the selected table
2. Double click in the table cell to be modified and update value in the cell
3. Important: press the **Commit changes** (orange check mark in the toolbar) button to save edits



## Add rows to a table

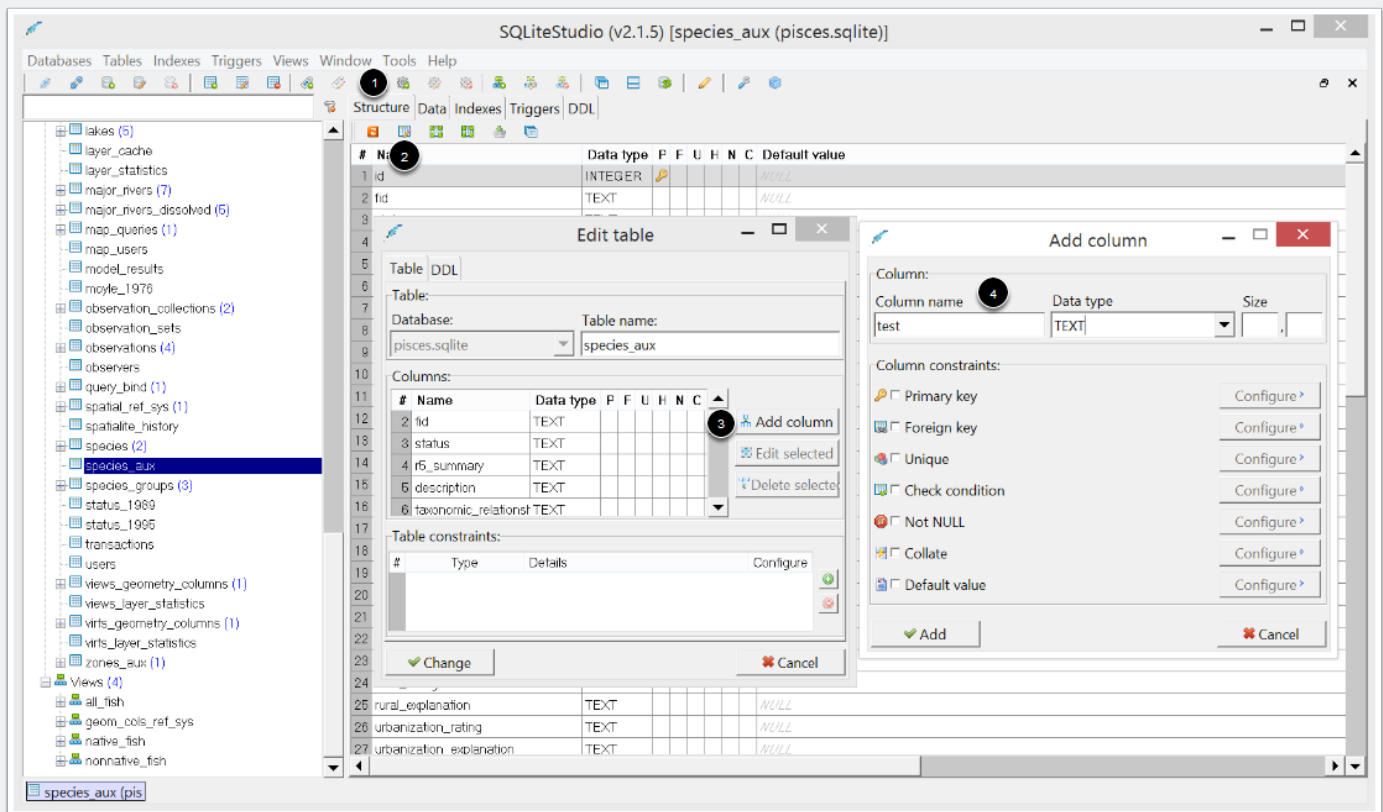
1. Open the **Data** tab for the selected table
2. Select the **Add new row** button (red plus mark in the toolbar). **Add Custom number of rows** can also be used to add multiple rows.
3. Fill new row with data
4. Important: press **Commit changes** (orange check mark in the toolbar) to save the edits to the table.



# Database

## Add new column to a table

1. Open the **Structure** tab for the table
2. Click the **Edit Table** button (shortcut looks like a table with a pencil)
3. In the Edit table pop-up window, click the **Add column** button
4. In the Add Column pop-up window, fill in the new column name, data type and any other properties.



## Views

Views are SQLite statements stored in a database with an associated name. A view is simply a composition of a table built from a predefined SQL query. Views can be used to create subsets of tables or to join the attributes of multiple tables together.