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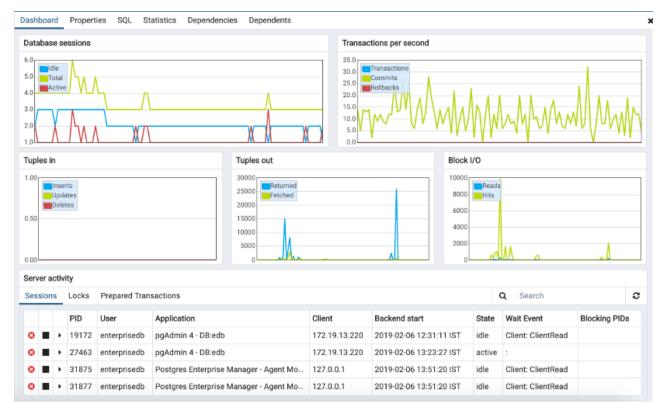
Warning: This documentation is for a pre-release version of pgAdmin 4

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## Tabbed Browser ¶

The right pane of the *pgAdmin* window features a collection of tabs that display information about the object currently selected in the *pgAdmin* tree control in the left window. Select a tab to access information about the highlighted object in the tree control.



The graphs on the *Dashboard* tab provides an active analysis of the usage statistics for the selected server or database:

- The Server sessions or Database sessions graph displays the interactions with the server or database.
- The Transactions per second graph displays the commits, rollbacks, and total transactions per second that are taking place on the server or database.
- The Tuples in graph displays the number of tuples inserted, updated, and deleted on the server or database.
- The *Tuples out* graph displays the number of tuples fetched and returned from the server or database.
- The *Block I/O* graph displays the number of blocks read from the filesystem or fetched from the buffer cache (but not the operating system's file system cache) for the server or database.

The Server activity panel displays information about sessions, locks, prepared transactions, and server configuration (if applicable). The information is presented in context-sensitive tables. Use controls located above the table to:

- Click the Refresh button to update the information displayed in each table.
- Enter a value in the Search box to restrict the table content to one or more sessions that satisfy the search criteria. For example, you can enter a process ID to locate a specific session, or a session state (such as idle) to locate all of the sessions that are in an idle state.

You can use icons in the Sessions table to review or control the state of a session:

- Use the *Terminate* icon (located in the first column) to stop a session and remove the session from the table. Before the server terminates the session, you will be prompted to confirm your selection.
- Use the Cancel icon (located in the second column) to terminate an
  active query without closing the session. Before canceling the query,
  the server will prompt you to confirm your selection. When you cancel
  a query, the value displayed in the State column of the table will be

updated from *Active* to *Idle*. The session will remain in the table until the session is terminated.

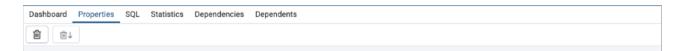
• Use the *Details* icon (located in the third column) to open the *Details* tab; the tab displays information about the selected session.



The Properties tab displays information about the object selected.

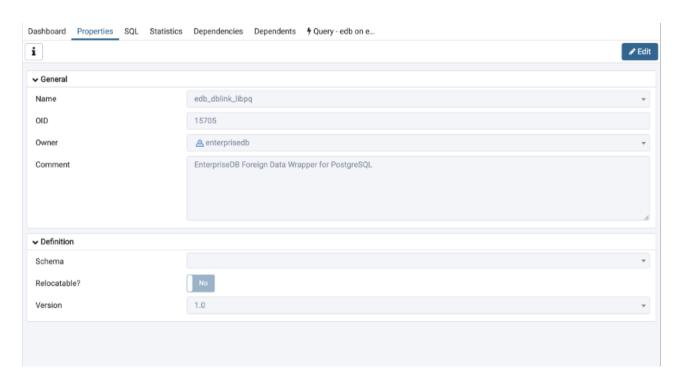
Click the *Delete* icon in the toolbar under the browser tab to delete the selected objects in the Properties panel.

Click the *Drop Cascade* icon in the toolbar under the browser tab to delete the selected objects and all dependent objects in the Properties panel.



Click the *Edit* icon in the toolbar under the browser tabs to launch the *Properties* dialog for the selected object.

To preserve any changes to the *Properties* dialog, click the *Save* icon; your modifications will be displayed in the updated *Properties* tab.



Details about the object highlighted in the tree control are displayed in one or more collapsible panels. You can use the arrow to the left of each panel label to open or close a panel.

```
Dashboard Properties SQL Statistics Dependencies Dependents

1 -- Database: edb

2 
3 -- DROP DATABASE edb;

4 
5 CREATE DATABASE edb

6 WITH

7 OWNER = enterprisedb

8 ENCODING = 'UTF8'

9 LC_COLLATE = 'en_US.UTF-8'

10 LC_CTYPE = 'en_US.UTF-8'

11 TABLESPACE = pg_default

12 CONNECTION LIMIT = -1;
```

The *SQL* tab displays the *SQL* script that created the highlighted object, and when applicable, a (commented out) *SQL* statement that will *DROP* the selected object. You can copy the *SQL* statements to the editor of

your choice using cut and paste shortcuts.

Dashboard Properties SQL Statistics D	Dependencies Dependents † Query - edb on e
Statistics	Value
Backends	5
Xact committed	92095209
Xact rolled back	36
Blocks read	5269146
Blocks hit	15431026716
Tuples returned	22491999300
Tuples fetched	6469655717
Tuples inserted	13529
Tuples updated	152
Tuples deleted	98
Last statistics reset	2018-12-21 14:30:08.829322+05:30
Tablespace conflicts	0
Lock conflicts	0
Snapshot conflicts	0
Bufferpin conflicts	0
Deadlock conflicts	0
Temporary files	0
Size of temporary files	0 bytes
Deadlocks	0
Block read time	0
Block write time	0
Size	18 MB

The *Statistics* tab displays the statistics gathered for each object on the tree control; the statistics displayed in the table vary by the type of object that is selected. Click a column heading to sort the table by the data displayed in the column; click again to reverse the sort order. The following table lists some of the statistics that are available:

Panel	Description
PID	The process ID associated with the row.
User	The name of the user that owns the object.
Database	displays the database name.
Backends	displays the number of current connections to the database.
Backend start	The start time of the backend process.
Xact Committed	displays the number of transactions committed to the database within the last week.
Xact Rolled Back	displays the number of transactions rolled back within the last week.
Blocks Read	displays the number of blocks read from memory (in megabytes) within the last week.
Blocks Hit	displays the number of blocks hit in the cache (in megabytes) within the last week.
Tuples Returned	displays the number of tuples returned within the last week.
Tuples Fetched	displays the number of tuples fetched within the last week.
Tuples Inserted	displays the number of tuples inserted into the database within the last week.
Tuples Updated	displays the number of tuples updated in the database within the last week.
Tuples Deleted	displays the number of tuples deleted from the database within the last week.
Last statistics reset	displays the time of the last statistics reset for the database.

Panel	Description
Tablespace conflicts	displays the number of queries canceled because of recovery conflict with dropped tablespaces in database.
Lock conflicts	displays the number of queries canceled because of recovery conflict with locks in database.
Snapshot conflicts	displays the number of queries canceled because of recovery conflict with old snapshots in database.
Bufferpin conflicts	displays the number of queries canceled because of recovery conflict with pinned buffers in database.
Temporary files	displays the total number of temporary files, including those used by the statistics collector.
Size of temporary files	displays the size of the temporary files.
Deadlocks	displays the number of queries canceled because of a recovery conflict with deadlocks in database.
Block read time	displays the number of milliseconds required to read the blocks read.
Block write time	displays the number of milliseconds required to write the blocks read.
Size	displays the size (in megabytes) of the selected database.

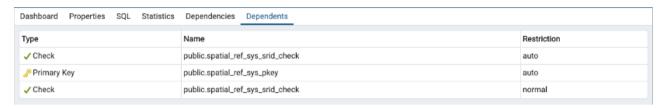


The *Dependencies* tab displays the objects on which the currently selected object depends. If a dependency is dropped, the object currently selected in the pgAdmin tree control will be affected. To ensure the integrity of the entire database structure, the database server makes sure that you do not accidentally drop objects that other objects depend on; you must use the DROP CASCADE command to remove an object with a dependency.

The *Dependencies* table displays the following information:

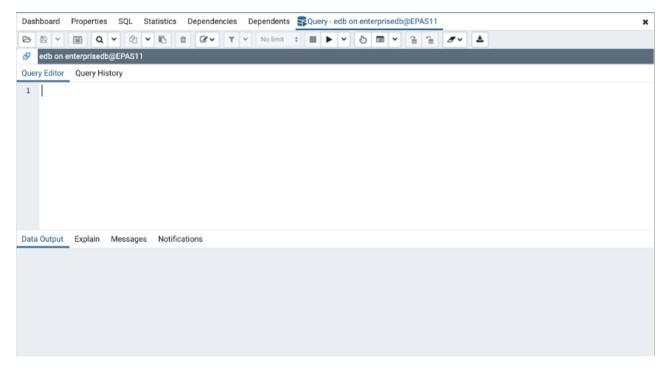
- The *Type* field specifies the parent object type.
- The Name field specifies the identifying name of the parent object.
- The *Restriction* field describes the dependency relationship between the currently selected object and the parent:

- If the field is auto, the selected object can be dropped separately from the parent object, and will be dropped if the parent object is dropped.
- If the field is *internal*, the selected object was created during the creation of the parent object, and will be dropped if the parent object is dropped.
- If the field is *normal*, the selected object can be dropped without dropping the parent object.
- If the field is blank, the selected object is required by the system, and cannot be dropped.



The *Dependents* tab displays a table of objects that depend on the object currently selected in the *pgAdmin* browser. A dependent object can be dropped without affecting the object currently selected in the *pgAdmin* tree control.

- The *Type* field specifies the dependent object type.
- The Name field specifies the identifying name for the dependent object.
- The *Database* field specifies the database in which the object resides.



Additional tabs open when you access the extended functionality offered by pgAdmin tools (such as the Query tool, Debugger, or SQL editor). Use the close icon (X) located in the upper-right corner of each tab to close the tab when you are finished using the tool. Like permanent tabs, these tabs may be repositioned in the pgAdmin client window.

By default, each time you open a tool, pgAdmin will open a new browser tab. You can control this behavior by modifying the *Display* node of the *Preferences* dialog for each tool. To open the *Preferences* dialog, select *Preferences* from the *File* menu.