
Intake-Postgres Documentation

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Read data from PostgreSQL into Pandas dataframes using Intake.

CHAPTER 1

Quickstart

This guide illustrates how to get started using *Intake-Postgres*, an *Intake* plugin that adds support for ingesting data from the [PostgreSQL](#) RDBMS. Before continuing, please complete the *Intake* quickstart.

1.1 Installation

If you have a [conda-based installation](#), install *Intake* and the *Intake-Postgres* plugin with the following command:

```
conda install -c intake intake-postgres
```

1.2 Usage (via *catalog.yml*)

Usage of *Intake-Postgres* is easiest to illustrate with an example.

In the *catalog.yml* file:

```
sources:
  all_users:
    driver: postgres
    args:
      uri: 'postgresql://postgres@localhost:5432/postgres'
      sql_expr: 'select * from users'
```

There are two things to note in the above example:

1. *intake_postgres* is included under “plugins”. This only needs to be done once for each *catalog.yml* file.
2. Any “sources” entry which includes the field *driver: postgres* includes some additional fields that are specific to the *Intake-Postgres* plugin. Specifically, we need to provide a *uri* to the database, and a *sql_expr* (SQL query expression).

Intake can then be accessed as normal, and provided that *Intake-Postgres* is installed:

```
>>> import intake
>>> catalog = intake.Catalog('catalog.yml')
>>> ds = catalog.all_users
>>> ds.discover()
>>> df = ds.read()
>>> df.tail()
```

The code above reads the *catalog.yml* file as normal, calls *discover()* on the *Intake-Postgres* data source, and then reads it into a dataframe for further analysis.

1.3 Usage (via Python library)

Intake-Postgres can also be accessed directly as a library. This usage pattern is for users who desire to call *Intake-Postgres* from inside another application, or just want more control over how data is ingested.

Here is the same example as above, except accessing *Intake-Postgres* as a library instead of through the *catalog.yml*:

```
>>> import intake_postgres
>>> ds = intake_postgres.PostgresSource('postgresql://postgres@localhost:5432/postgres
↳ ', 'select * from users')
>>> source.discover()
>>> df = source.read()
>>> df.tail()
```


CHAPTER 2

API Reference

class `intake_postgres.intake_postgres.PostgresSource` (*uri*, *sql_expr*, *pg_kwargs*={},
metadata=None)
Read data from PostgreSQL to dataframes
uri: str Connection to PostgreSQL server
sql_expr: str The full text of the SQL query to execute
pg_kwargs: dict Further args passed to `postgresadapter.PostgresAdapter`, see <https://github.com/ContinuumIO/PostgresAdapter/blob/master/postgresadapter/core/PostgresAdapter.pyx#L281>

CHAPTER 3

Indices and tables

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