

# PostgreSQL Installation Guide

# Download PostgreSQL

- <https://www.postgresql.org/download/windows/>

The screenshot shows the PostgreSQL website's download page for Windows. The browser's address bar displays the URL <https://www.postgresql.org/download/windows/>. The page features a blue header with the PostgreSQL logo and navigation links: Home, About, Download, Documentation, and Com. A sidebar on the left contains links to Downloads (Binary, Source), Software Catalogue, and File Browser. The main content area is titled 'Windows installers' and includes a section for 'Interactive installer by EnterpriseDB'. A red rectangular box highlights the 'Graphical installer by BigSQL' section, which contains the following text:

**Graphical installer by BigSQL**

[Download the graphical installer](#) from BigSQL for all supported versions.

This distribution includes the PostgreSQL server, a graphical component manager, command line and graphical tools for managing databases, plus many open source community components.

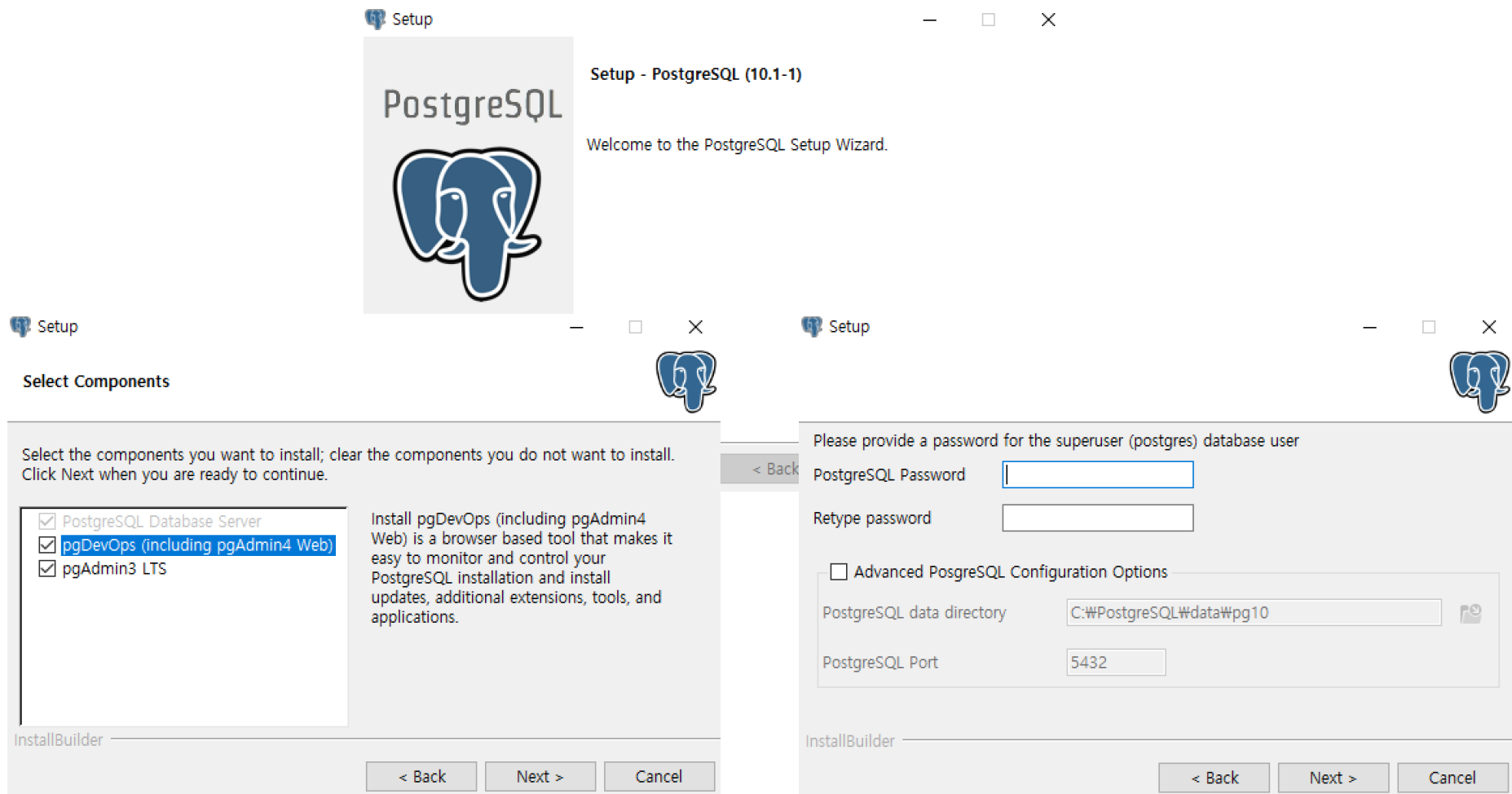
Integrated components include web and desktop developer tools, geospatial, provisioning & management, compatibility & migration, backup/restore, integration with external databases (Cassandra, Oracle, SQL Server, Hadoop), and procedural languages (Python, Perl, Java, and TCL).

This distribution is a fast, developer-friendly way to get a complete PostgreSQL environment installed and running. It uses an open source toolchain to build PostgreSQL and extensions, which simplifies cross-platform development of extensions.

Advanced users can also download a [command line](#) version of the distribution, for scriptable installs or embedding with other applications.

At the bottom of the page, there are links for Privacy Policy, About PostgreSQL, and Twitter, along with a copyright notice: Copyright © 1996-2018 The PostgreSQL Global Development Group.

# Install PostgreSQL



**Setup - PostgreSQL (10.1-1)**

Welcome to the PostgreSQL Setup Wizard.

**Select Components**

Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.

- ☒ PostgreSQL Database Server
- ☒ pgDevOps (including pgAdmin4 Web)
- ☒ pgAdmin3 LTS

Install pgDevOps (including pgAdmin4 Web) is a browser based tool that makes it easy to monitor and control your PostgreSQL installation and install updates, additional extensions, tools, and applications.

Please provide a password for the superuser (postgres) database user

PostgreSQL Password

Retype password

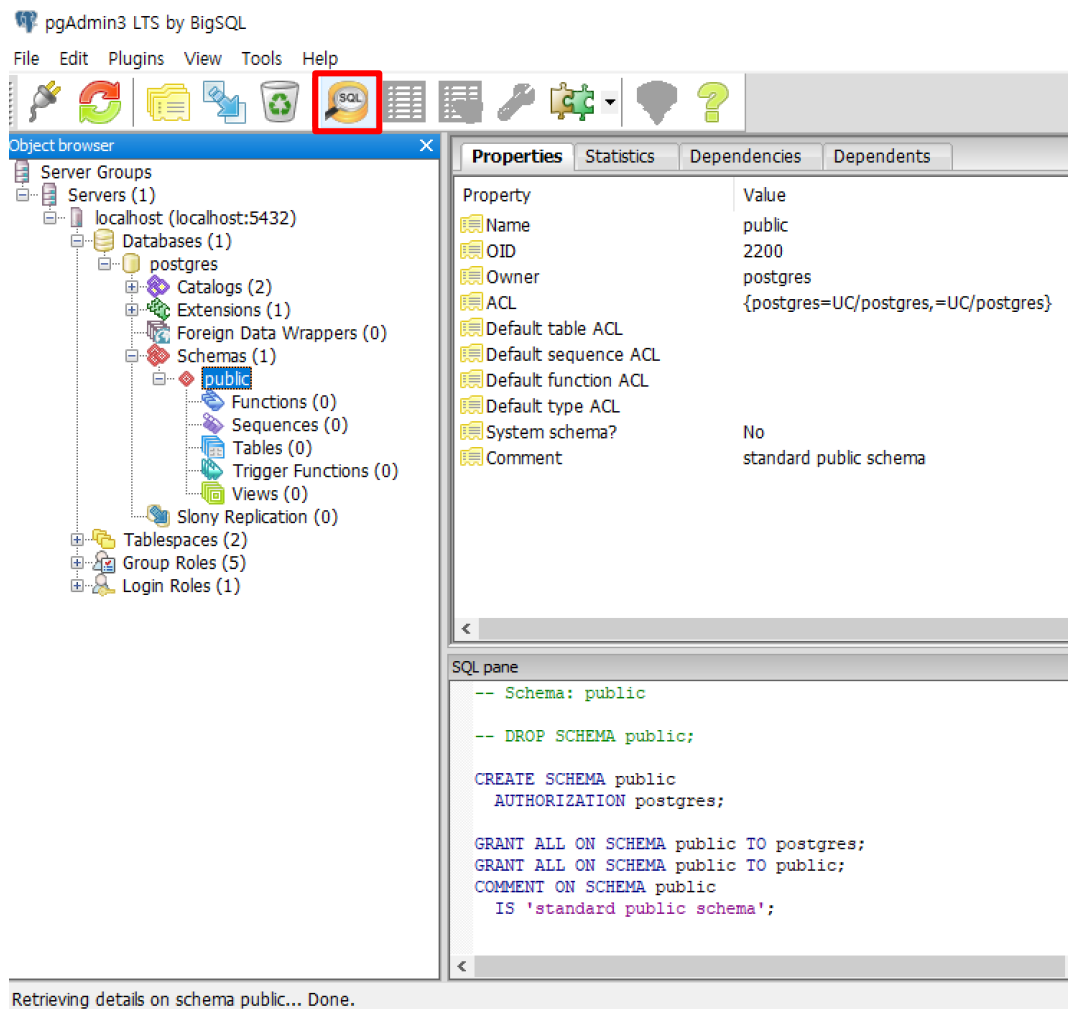
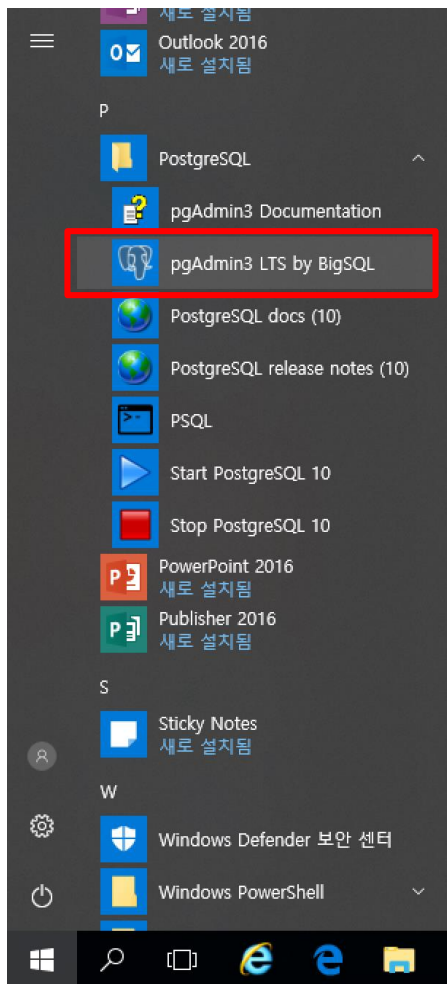
☐ Advanced PostgreSQL Configuration Options

PostgreSQL data directory

PostgreSQL Port

< Back Next > Cancel

# Run pgAdmin



# Test Query

Query - postgres on postgres@localhost:5432 \*

File Edit Query Favourites Macros View Help

postgres on postgres@localhost:5432

SQL Editor Graphical Query Builder

Previous queries

Query 1\* x

```
SELECT * FROM pg_catalog.pg_tables;
```

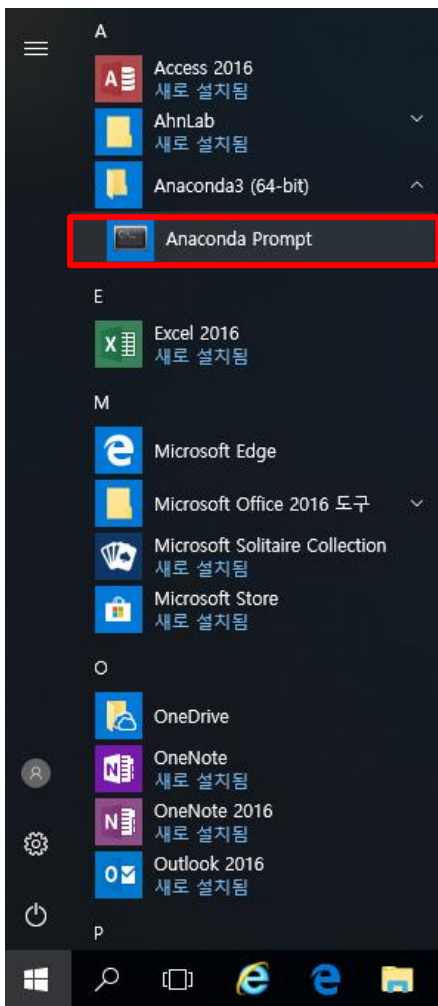
Output pane [Query 1]

Data Output Explain Messages History

	schemaname name	tablename name	tableowner name	tablespace name	hasindexes boolean	hasrules boolean	hastriggers boolean	rowsecurity boolean
1	pg catalog	pg statistic	postgres		t	f	f	f
2	pg catalog	pg type	postgres		t	f	f	f
3	pg catalog	pg policy	postgres		t	f	f	f
4	pg catalog	pg authid	postgres	pg global	t	f	f	f
5	pg catalog	pg user mapping	postgres		t	f	f	f
6	pg catalog	pg subscription	postgres	pg global	t	f	f	f
7	pg catalog	pg attribute	postgres		t	f	f	f
8	pg catalog	pg proc	postgres		t	f	f	f

# Install Python Packages

- Run following command in Anaconda Prompt
  - `pip install -r requirements.txt`



Anaconda Prompt

```
(C:\Users\jonghm\Miniconda3) C:\Users\jonghm\Desktop\fc-rec-workshop>dir
C 드라이브의 볼륨에는 이름이 없습니다.
볼륨 일련 번호: 94AF-7067

C:\Users\jonghm\Desktop\fc-rec-workshop 디렉터리

2018-01-19 오전 11:17 <DIR>          .
2018-01-19 오전 11:17 <DIR>          ..
2018-01-19 오전 11:17 <DIR>          .git
2018-01-18 오후 05:02          35 .gitignore
2018-01-19 오전 11:17 <DIR>          appendix
2018-01-19 오전 11:17 <DIR>          commerce
2018-01-18 오후 05:02          202 init-db.sql
2018-01-19 오전 11:17 <DIR>          movielens
2018-01-18 오후 05:02          4,606 README.md
2018-01-18 오후 05:35          942 requirements.txt
2018-01-18 오후 05:35          4개 파일          5,785 바이트
                6개 디렉터리 42,601,758,720 바이트 남음

(C:\Users\jonghm\Miniconda3) C:\Users\jonghm\Desktop\fc-rec-workshop>pip install -r requirements.txt
```

# Test with Jupyter Notebook

- Open commerce/exercise-3.1.ipynb
- Change the [FILE\_DIRECTORY] and RUN



Files Running Clusters

Select items to perform actions on them.

0 / commerce

- ..
- exercise-3.0.ipynb
- exercise-3.1.ipynb**
- 01init.sql
- 02refine.sql
- 03best.sql
- 04rel.sql
- 05knn.sql
- test\_csv.csv



exercise-3.1 (unsaved changes)

File Edit View Insert Cell Kernel Help

Run

## Database Test

확장 기능 로드

In [1]: `%reload_ext sql`

데이터베이스 접속

In [2]: `%sql postgresql+ps`

Out[2]: 'Connected: postgres@p

하나의 SQL 입력시 %sql 사용

In [3]: `%sql select * from`

10 rows affected.



exercise-3.1 (unsaved changes)

File Edit View Insert Cell Kernel Help

Run

In [5]: `%sql  
copy test_csv  
from '[FILE_DIRECTORY]/test_csv.csv'  
csv;`

100 rows affected.

Out[5]: []

In [6]: `%sql  
select * from test_csv limit 10;`