# **PostgreSQL Sample Database**

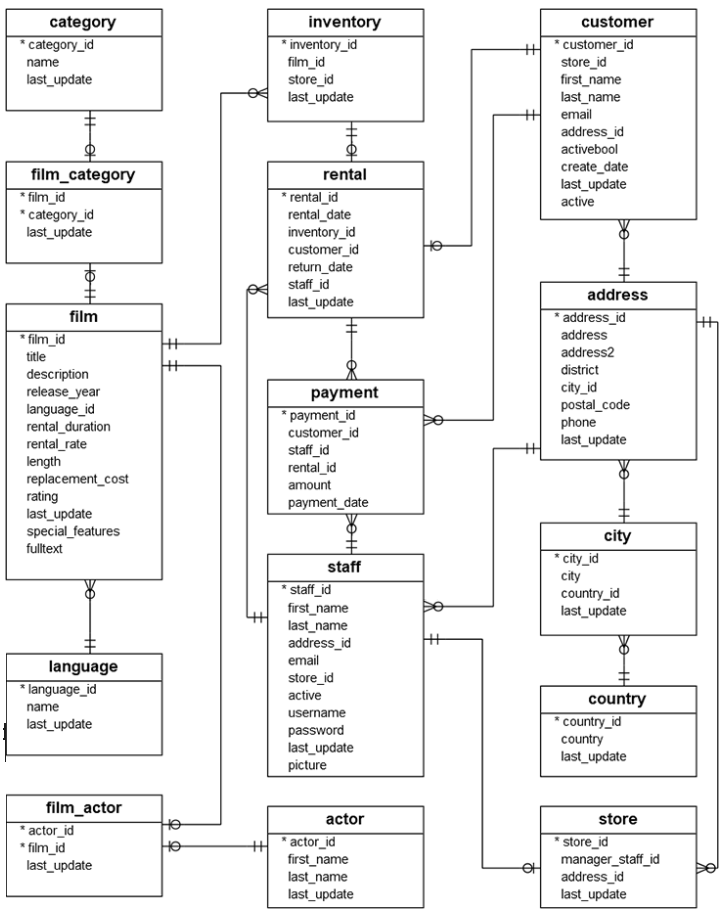
PostgreSQL provides sample database that you can use for learning and practicing PostgreSQL.

We will use the DVD rental database to demonstrate the features of PostgreSQL.

The DVD rental database represents the business processes of a DVD rental store. The DVD rental database has many objects, including:

* 15 tables
* 1 trigger
* 7 views
* 8 functions
* 1 domain
* 13 sequences

DVD Rental ER Model



## PostgreSQL Sample Database Tables

There are 15 tables in the DVD Rental database:

* actor – stores actors data including first name and last name.
* film – stores film data such as title, release year, length, rating, etc.
* film\_actor – stores the relationships between films and actors.
* category – stores film’s categories data.
* film\_category- stores the relationships between films and categories.
* store – contains the store data including manager staff and address.
* inventory – stores inventory data.
* rental – stores rental data.
* payment – stores customer’s payments.
* staff – stores staff data.
* customer – stores customer data.
* address – stores address data for staff and customers
* city – stores city names.
* country – stores country names.

## Download the PostgreSQL sample database

You can download the PostgreSQL DVD Rental sample database via the following link:

[Download DVD Rental Sample Database](https://www.postgresqltutorial.com/wp-content/uploads/2019/05/dvdrental.zip)

The database file is in zipformat ( dvdrental.zip) so you need to extract it to  dvdrental.tar [before loading the sample database into the PostgreSQL database server](https://www.postgresqltutorial.com/load-postgresql-sample-database/).

## Download printable ER diagram

Besides the sample database, we provide you with a printable ER diagram in PDF format. You can download and print the ER diagram for reference while practicing PostgreSQL.

[Download the Printable ER Diagram](https://www.postgresqltutorial.com/wp-content/uploads/2018/03/printable-postgresql-sample-database-diagram.pdf)

This tutorial introduced you to a PostgreSQL sample database named DVD rental. We will use this database in our PostgreSQL tutorials, so make sure [you load it to your server](https://www.postgresqltutorial.com/load-postgresql-sample-database/).

# **Load PostgreSQL Sample Database**

we will show you how to load the **PostgreSQL sample database** into the PostgreSQL database server**.**

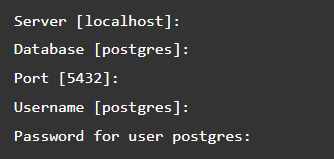
Before going forward with this tutorial, you need to have:

* A PostgreSQL database server installed on your system.
* A [PostgreSQL sample database](https://www.postgresqltutorial.com/postgresql-sample-database/) called dvdrental.

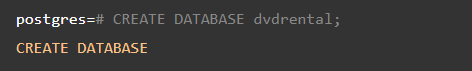
## Load the sample database using psql tool

First, launch the **psql** tool.



Second, enter the account’s information to log in to the PostgreSQL database server. You can use the default value provided by psql by pressing the **Enter** keyboard. However, for the password, you need to enter the one that you provided during [PostgreSQL installation](https://www.postgresqltutorial.com/install-postgresql/).

Third, enter the following [CREATE DATABASE](https://www.postgresqltutorial.com/postgresql-create-database/) statement to create a new **dvdrental** database.



PostgreSQL will create a new database named dvdrental.

Finally, enter the exit command to quit psql:



Then, navigate the **bin** folder of the PostgreSQL installation folder:



After that, use the **pg\_restore** tool to load data into the **dvdrental** database:



In this command:

* The -U postgres specifies the postgresuser to login to the PostgreSQL database server.
* The -d dvdrental specifies the target database to load.

Finally, enter the password for the **postgres** user and press enter

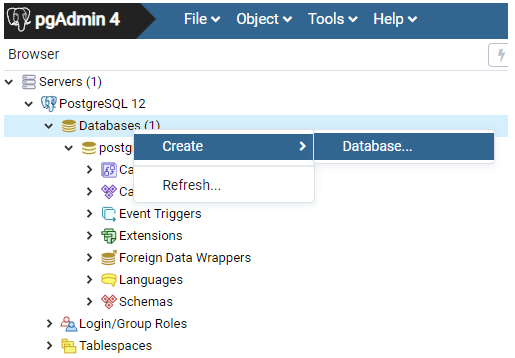
It takes about seconds to load data stored in the dvdrental.tar file into the dvdrentaldatabase.

## Load the DVD Rental database using the pgAdmin

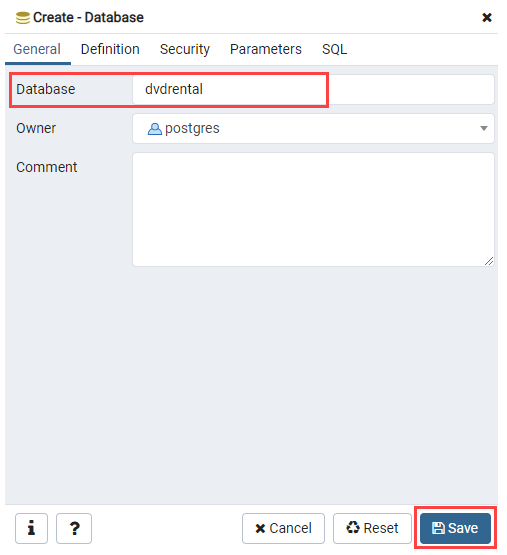
The following shows you step by step on how to use the pgAdmin tool to restore the [sample database](https://www.postgresqltutorial.com/postgresql-sample-database/) from the database file:

First, launch the **pgAdmin** tool and [connect to the PostgreSQL server](https://www.postgresqltutorial.com/postgresql-python/connect/).

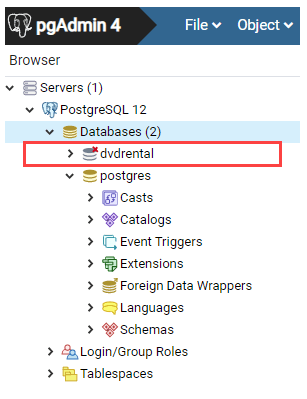
Second, right click the **Databases** and select the **Create > Database…** menu option:



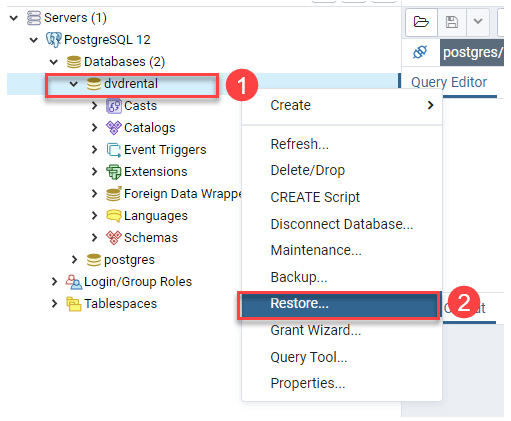
Third, enter the database name dvdrental and click the **Save**button:



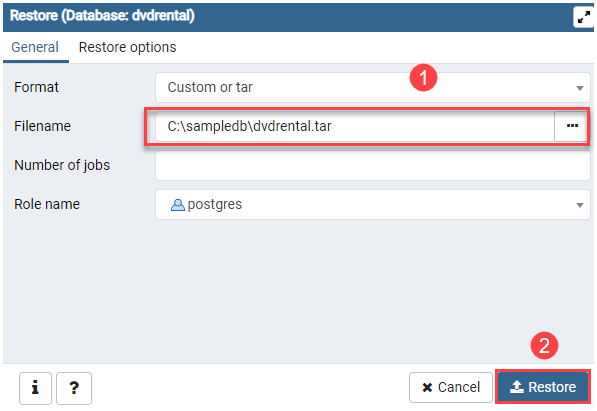
You’ll see the new empty database created under the Databases node:



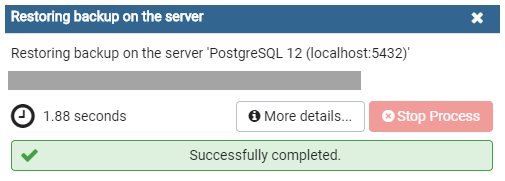
Fourth, right-click on the **dvdrental**database and choose **Restore…** menu item to restore the database from the downloaded database file:



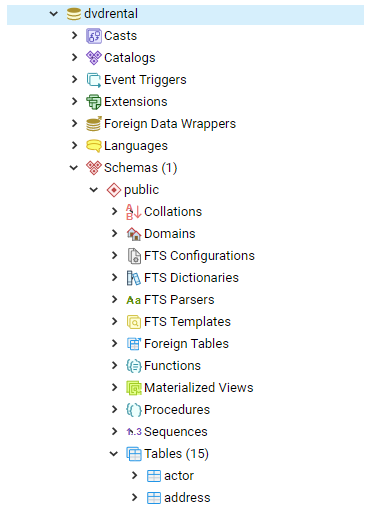
Fifth, enter the path to the sample database file e.g., **c:\sampledb\dvdrental.tar** and click the **Restore** button:



Sixth, the restoration process will complete in few seconds and shows the following dialog once it completes:



Finally, open the dvdrental database from object browser panel, you will find tables in the public schema and other database objects as shown in the following picture:



In this tutorial, you have learned how to load the dvdrental sample database into the PostgreSQL database server for practicing PostgreSQL.

Let’s start learning PostgreSQL and have fun!

# References

https://www.postgresqltutorial.com/postgresql-getting-started/postgresql-sample-database/