

Databases Design. Introduction to SQL

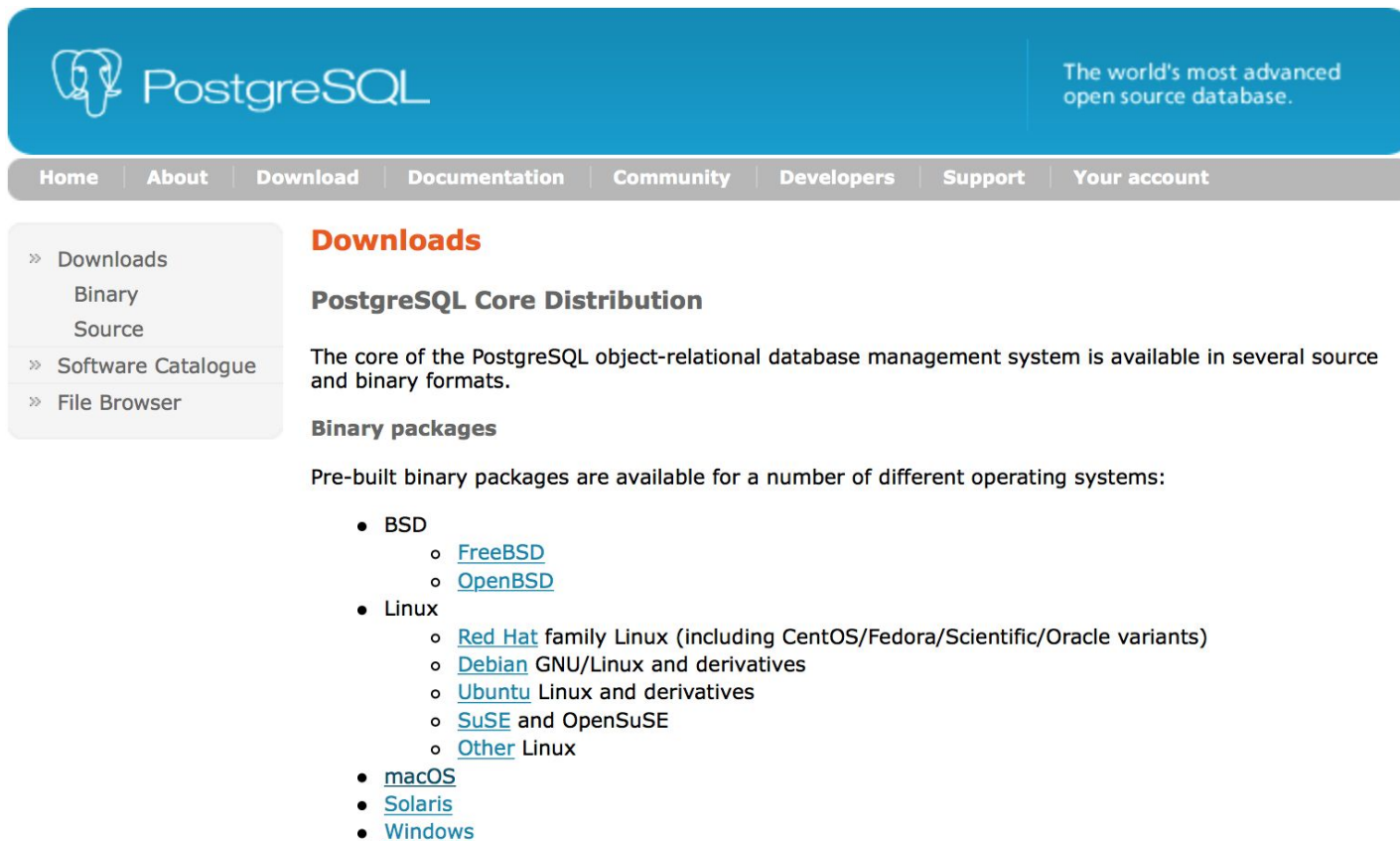
LAB WORK 4

PostgreSQL

IITU, ALMATY, 2020

Installation

- www.postgresql.org/download/



The screenshot shows the PostgreSQL website's download page. At the top, there is a blue header with the PostgreSQL logo and the tagline "The world's most advanced open source database." Below the header is a navigation bar with links for Home, About, Download, Documentation, Community, Developers, Support, and Your account. The main content area is divided into a left sidebar and a main content area. The sidebar contains links for Downloads (Binary, Source), Software Catalogue, and File Browser. The main content area features a "Downloads" section with a sub-section for "PostgreSQL Core Distribution". This section explains that the core of the PostgreSQL object-relational database management system is available in several source and binary formats. Below this, there is a "Binary packages" section stating that pre-built binary packages are available for various operating systems. A list of operating systems is provided, including BSD (FreeBSD, OpenBSD), Linux (Red Hat family, Debian, Ubuntu, SuSE, Other), macOS, Solaris, and Windows.

PostgreSQL The world's most advanced open source database.

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» Downloads
Binary
Source

» Software Catalogue

» File Browser

Downloads

PostgreSQL Core Distribution

The core of the PostgreSQL object-relational database management system is available in several source and binary formats.

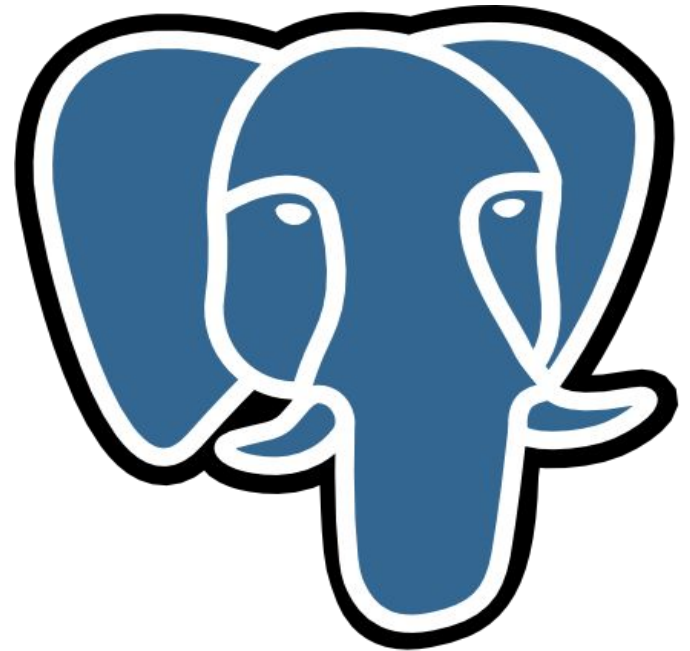
Binary packages

Pre-built binary packages are available for a number of different operating systems:

- BSD
 - [FreeBSD](#)
 - [OpenBSD](#)
- Linux
 - [Red Hat](#) family Linux (including CentOS/Fedora/Scientific/Oracle variants)
 - [Debian](#) GNU/Linux and derivatives
 - [Ubuntu](#) Linux and derivatives
 - [SuSE](#) and OpenSuSE
 - [Other](#) Linux
- [macOS](#)
- [Solaris](#)
- [Windows](#)

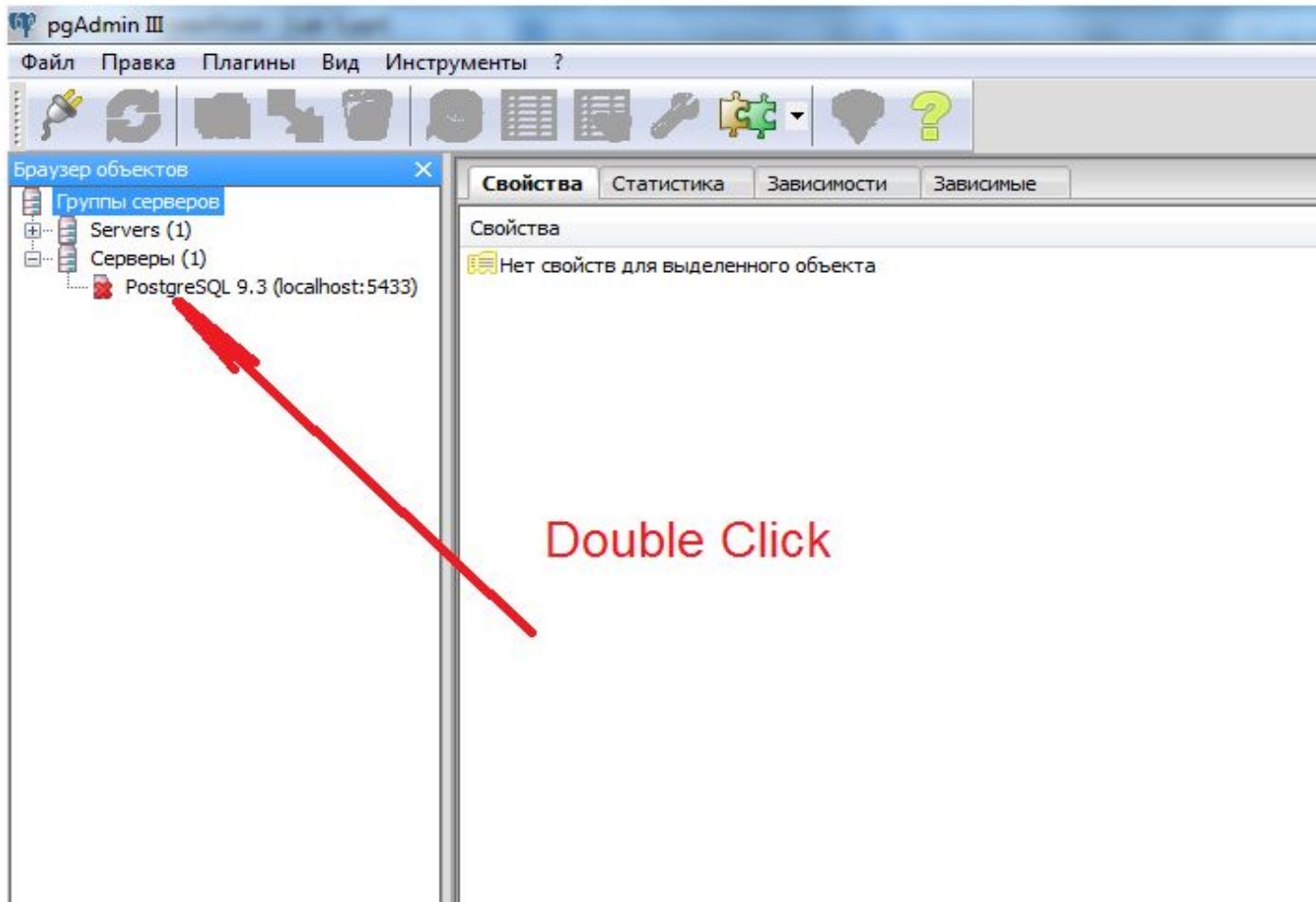
PostgreSQL + pgAdmin

Recommendation:
PostgreSQL 9.5 +
pgAdmin 3



PostgreSQL
pgAdmin3

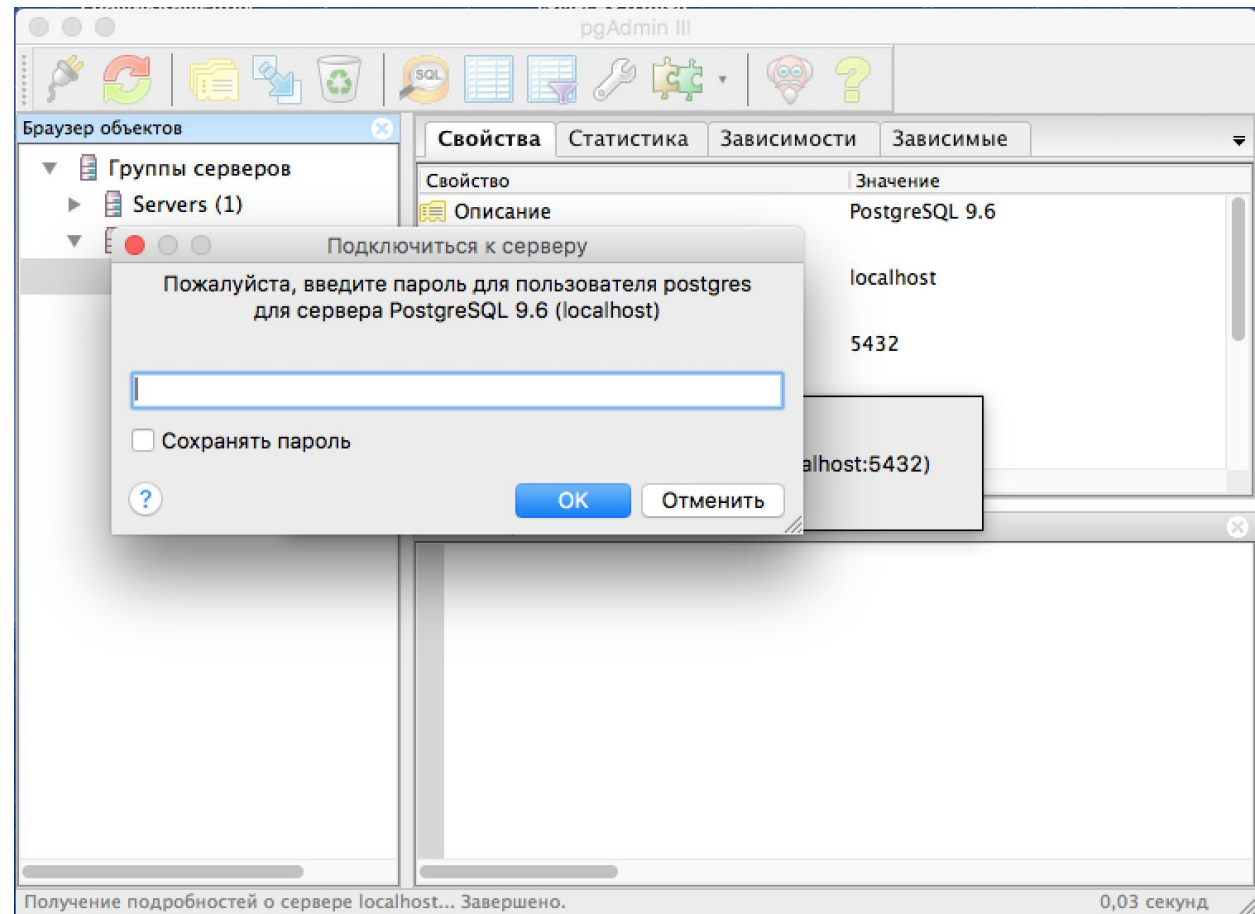
Connection to server



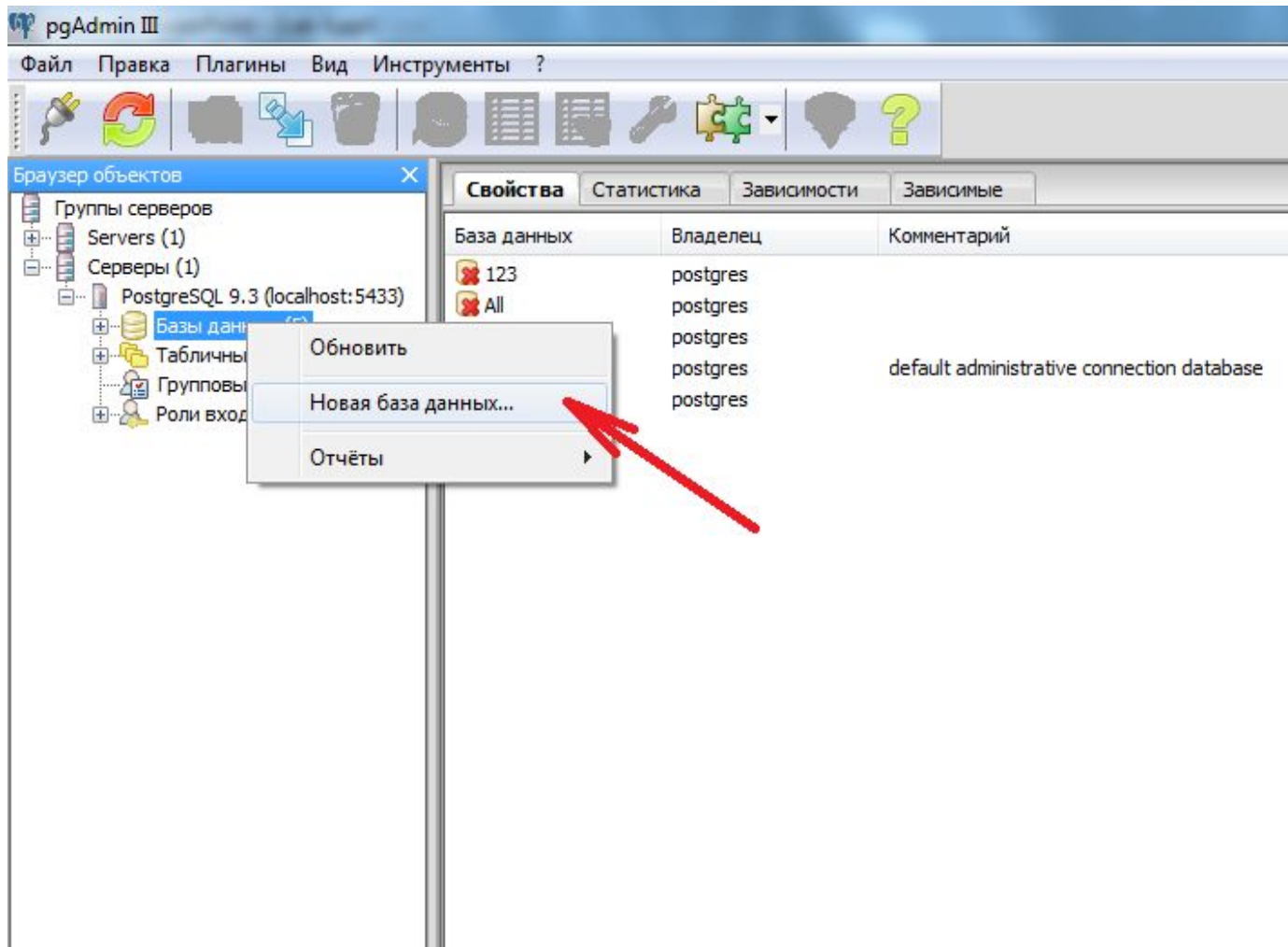
Connection to server

Password
(for IITU
computers):

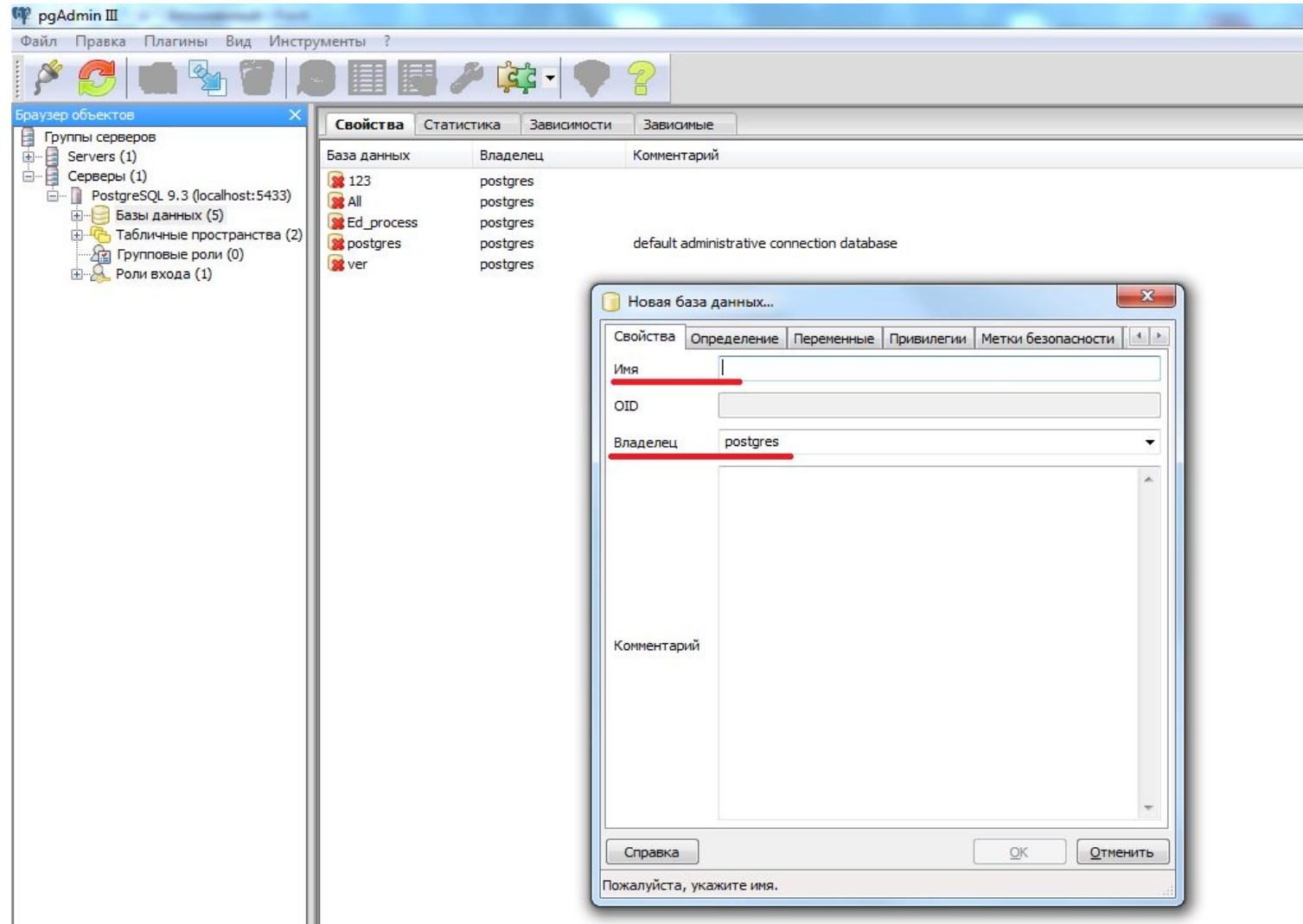
webuser



Creating a new database



Creating a new database

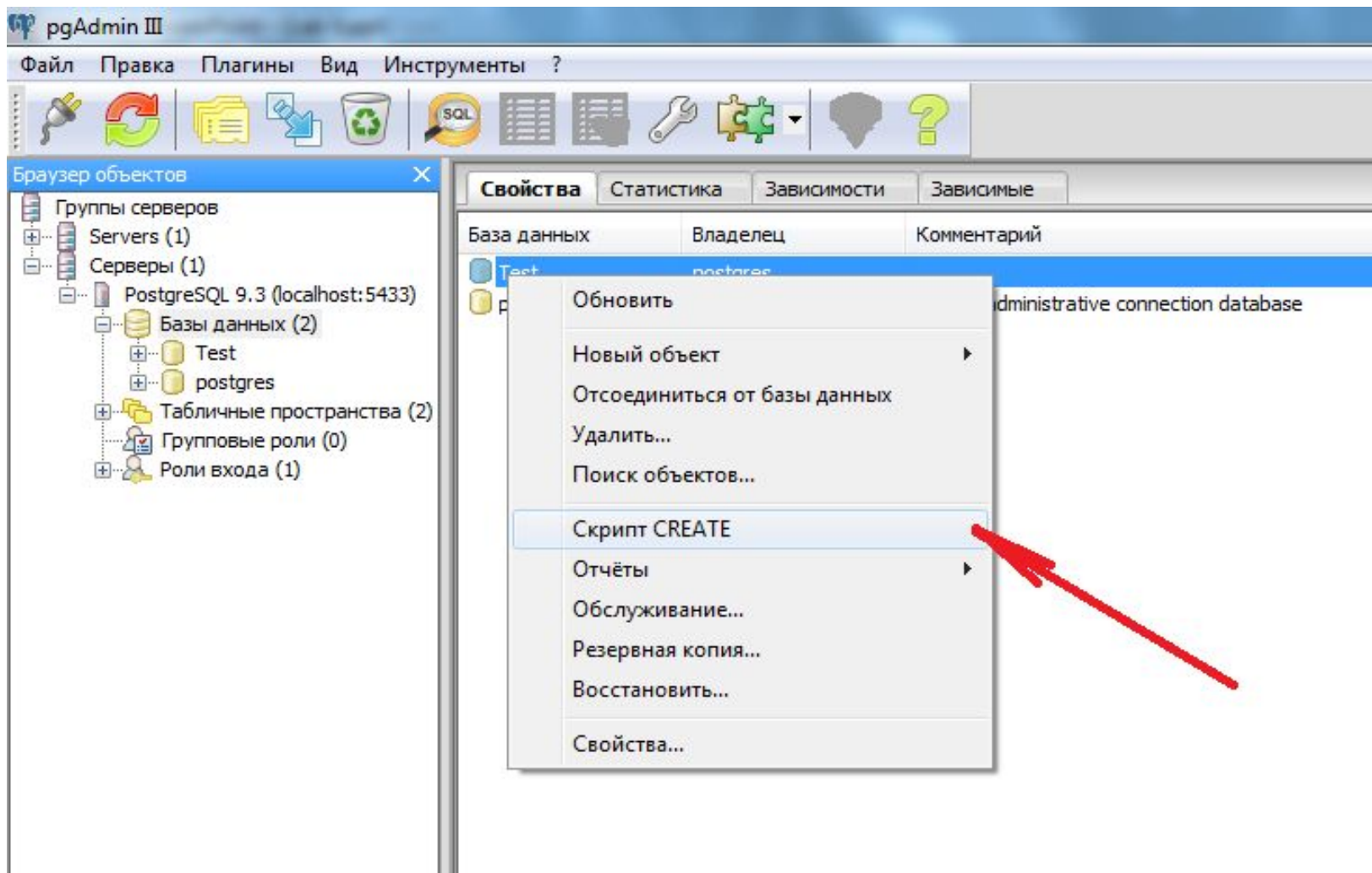


Creating a new database

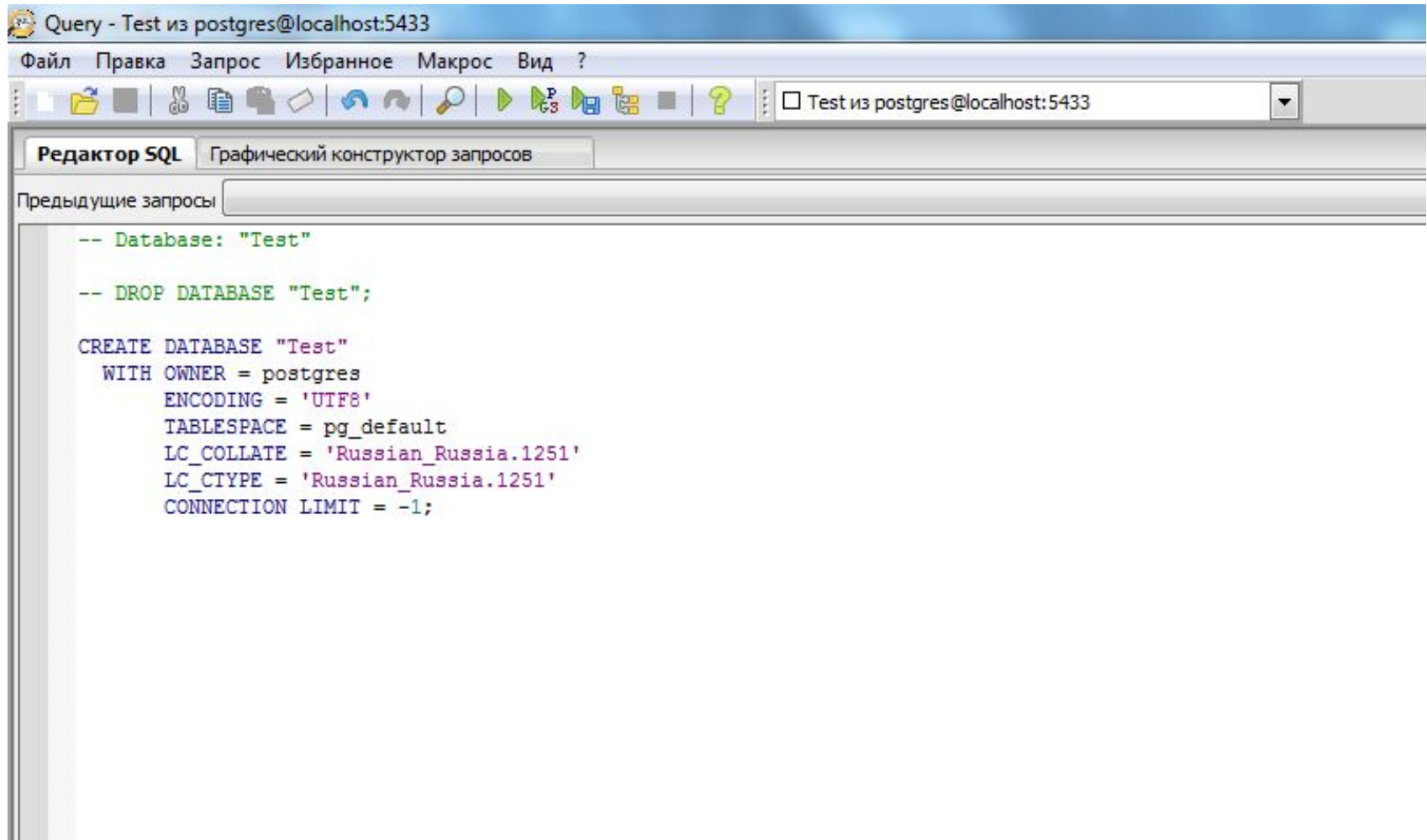
The screenshot shows the pgAdmin III interface. On the left, the 'Браузер объектов' (Object Browser) tree is expanded to show a PostgreSQL 9.3 instance on localhost:5433. Under 'Базы данных (2)', a new database named 'Test' is visible, circled in red. The main pane on the right shows the 'Свойства' (Properties) tab for the 'Test' database. The table below lists the database details.

База данных	Владелец	Комментарий
Test	postgres	
postgres	postgres	default administrative connection database

Creating a new database



CREATE DATABASE



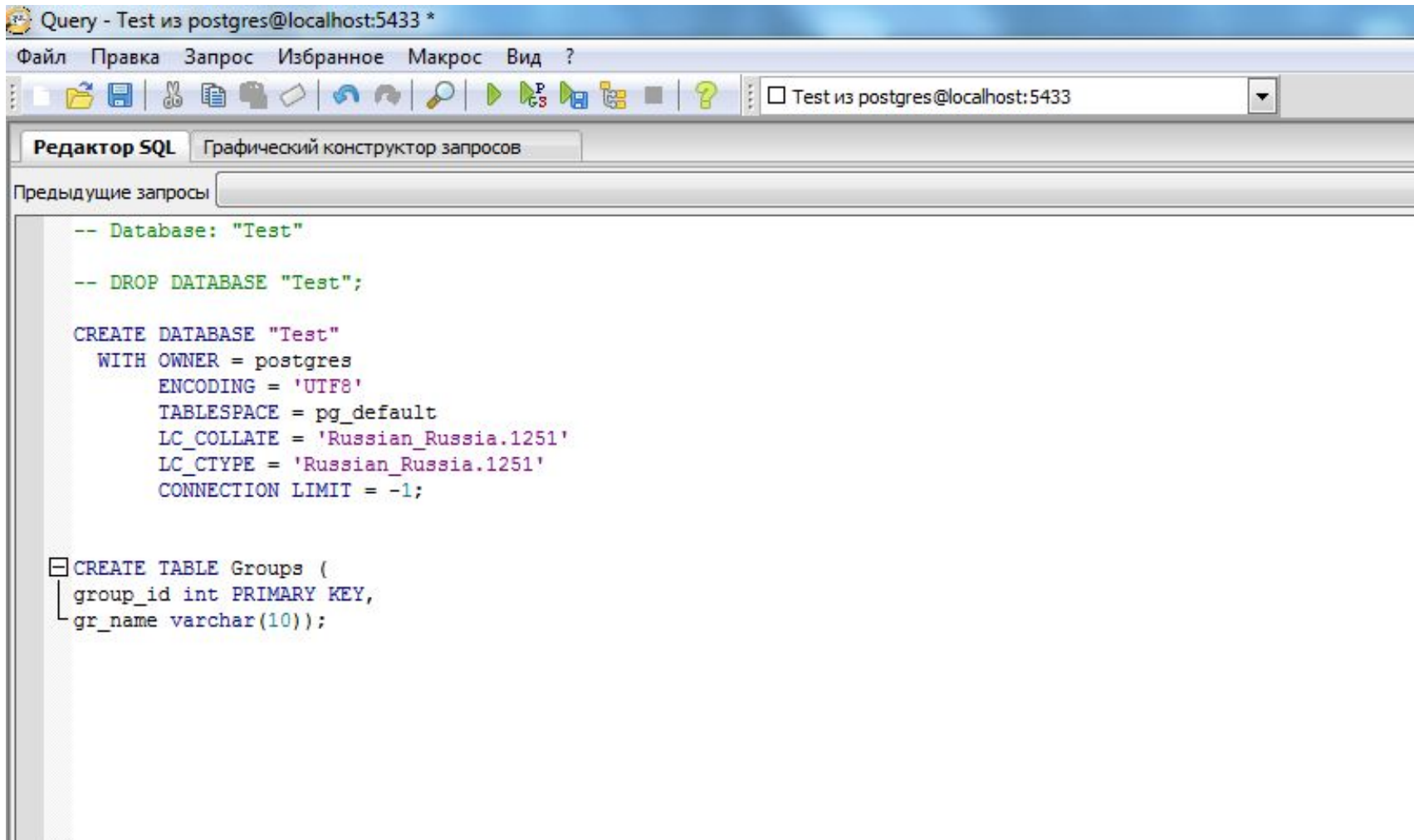
The screenshot shows a PostgreSQL query editor window titled "Query - Test из postgres@localhost:5433". The window has a menu bar with "Файл", "Правка", "Запрос", "Избранное", "Макрос", and "Вид". Below the menu bar is a toolbar with various icons for file operations and execution. The main area is a SQL editor with two tabs: "Редактор SQL" (selected) and "Графический конструктор запросов". The editor contains the following SQL code:

```
-- Database: "Test"

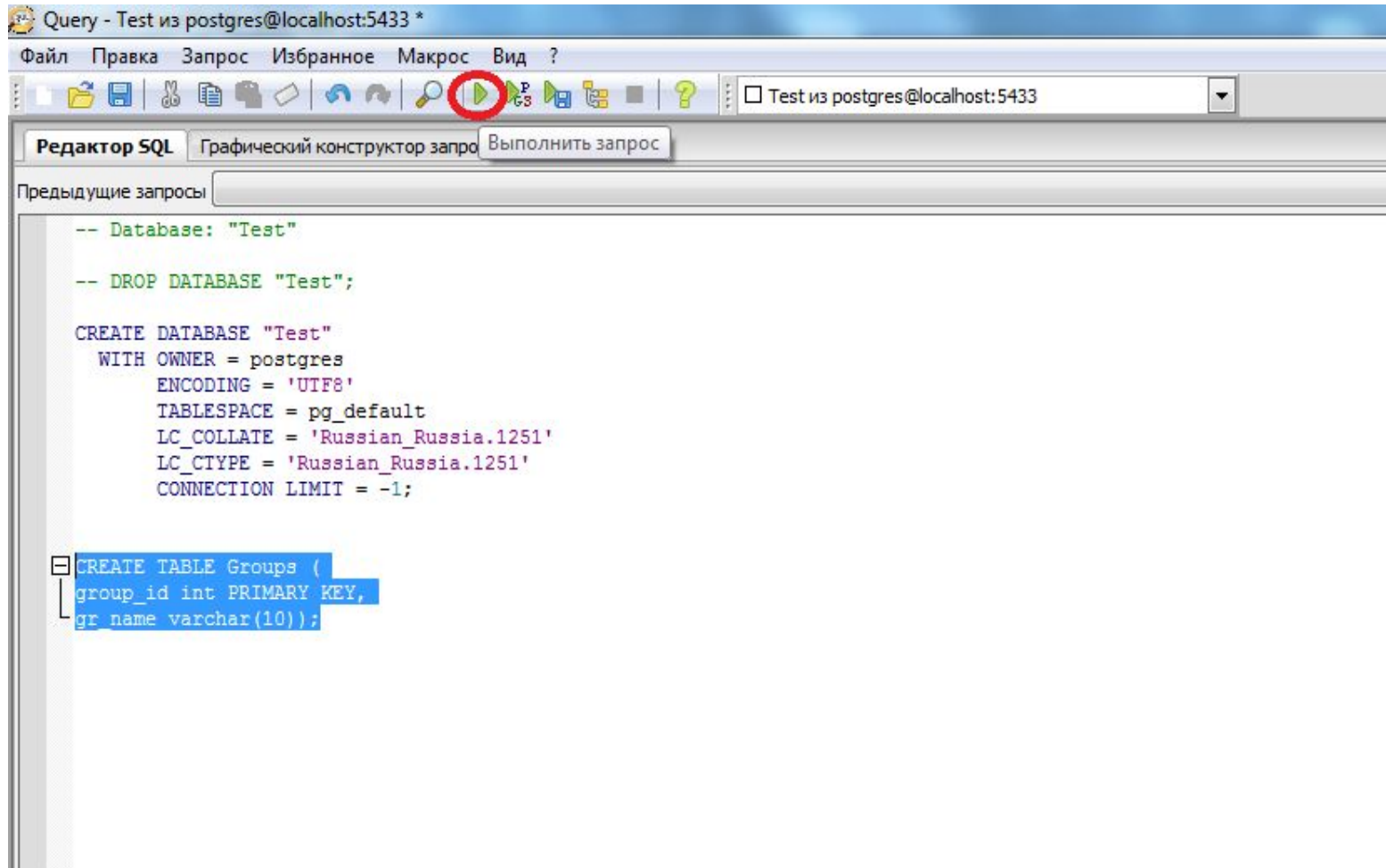
-- DROP DATABASE "Test";

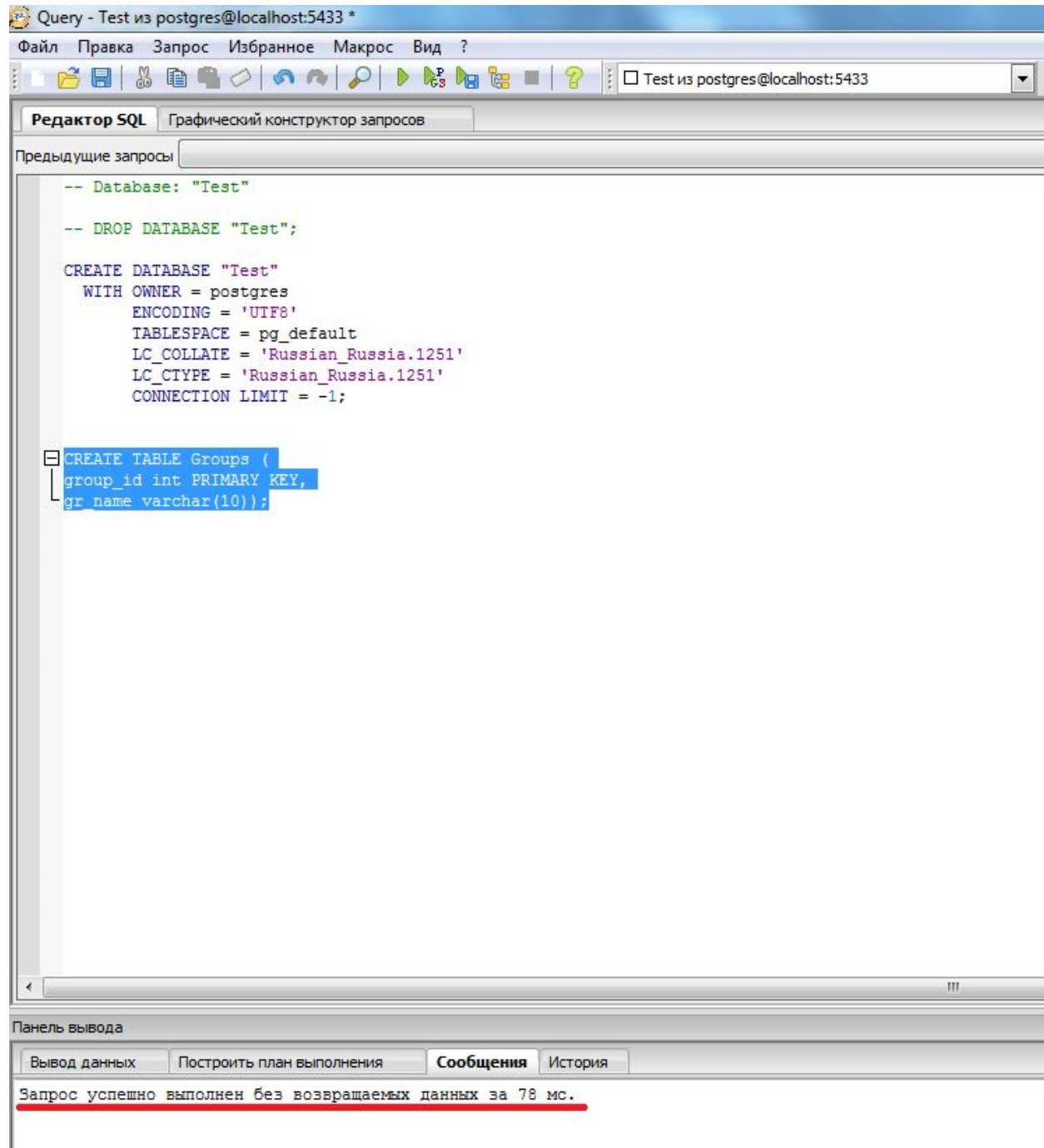
CREATE DATABASE "Test"
  WITH OWNER = postgres
       ENCODING = 'UTF8'
       TABLESPACE = pg_default
       LC_COLLATE = 'Russian_Russia.1251'
       LC_CTYPE = 'Russian_Russia.1251'
       CONNECTION LIMIT = -1;
```

New query



New query





Save as *.sql

