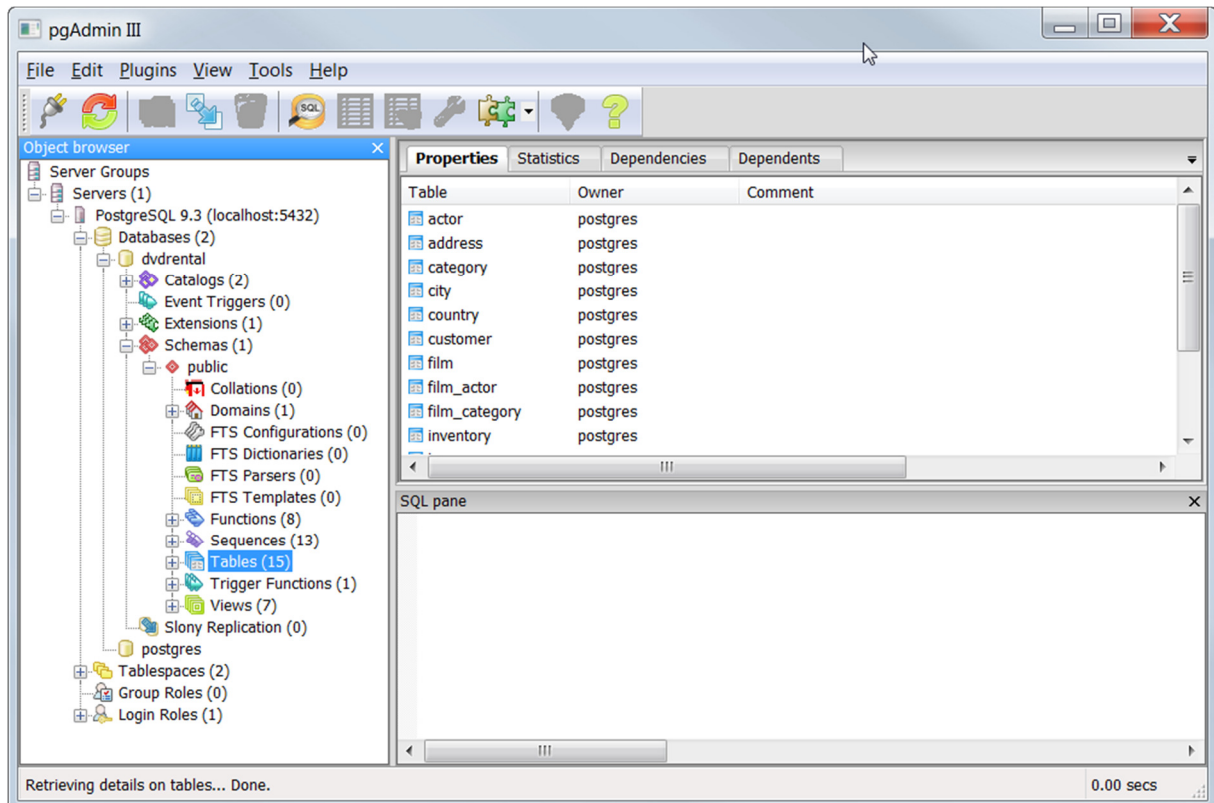# CUNY MSDA - IS607 : DATA ACQUISITION AND MANAGEMENT

Week 7 Quiz

A. Leopold HILLAH
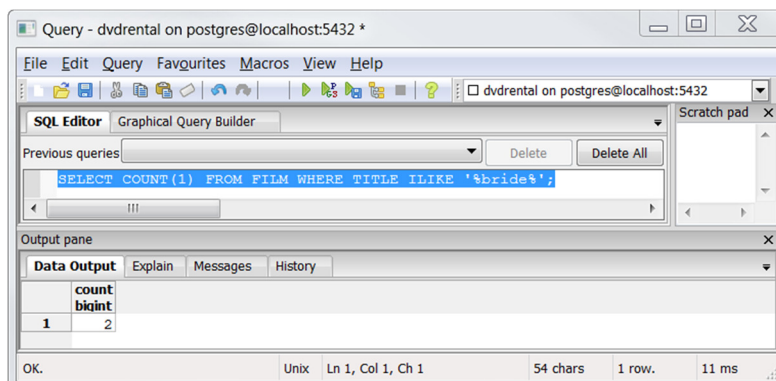
Question 1

Sample database installed.

Question 2

The number of films containing the word "bride" in their title is : **2**

The relevant SQL statement is: **SELECT COUNT (1) FROM FILM WHERE TITLE ILIKE '%bride%';**

Question 3

PostgreSQL offers the possibility to create stored procedures in the database using its own procedural language, PL/pgSQL, which comes as an extension to the SQL language (although other popular languages like Python, Perl, Tcl … can be used, too).

This extension allows database code to be run within the database, which gives better performance on large operations as database servers usually have much more powerful configurations than client workstations. This, however, requires adherence to additional syntax to construct procedural code.

Moreover, there is a clear advantage for a developer if she can use the same code like Python to develop both the database client application and stored procedures in the database.

Question 4

If someone wants to delete a customer that owes money, the database should reject the operation as there would be records in both **RENTAL** and **PAYMENT** tables, which reference the CUSTOMER table and have the restricting clause "**ON DELETE RESTRICT**" in the definition of the corresponding foreign keys.