Assignment 4

1. Create the DVDRental database in Postgres by adding a new database and “restoring” the DB using the dvdrental.tar file. (All tables will exist in the Public schema)
2. Which customer had the most rentals? Return the first name and last name as a single column and the count of rentals per customer in descending order.
3. Did that customer rent any movie more than once? (provide the query to validate)
4. What is the customer’s favorite movie category? Return the name and the total number of films they have rented in that category.
5. Write a trigger to delete a customer if they become inactive.
6. How can denormalization aid business users answer questions on the database more efficiently? Would it be more advantageous to create a VIEW or to use a NoSQL technology? List pros and cons of both approaches. Your answer should be a minimum of four paragraphs explaining: how denormalization can help and a comparative analysis for VIEWs vs NoSQL. You will need to perform research online or at the library to answer this question, be sure to cite at LEAST 3 pros and 3 cons for each approach. Cite all sources for your answer.