**Week 7 Quiz**

***Week 7 quiz is due end of day on Sunday October 12th****. A solution will be posted on Monday October 13th.*

1. Go through the tutorial at http://www.postgresqltutorial.com/, downloading and installing the sample database as instructed.

2. How many films contain the word bride in their title? (Show your SQL statement).

**select count(title) from film where title like '%bride%';**

**result 0**

3. Give one example of functionality that exists in PostgreSQL that is a superset of ANSI SQL’s functionality. What are the advantages of using or not using this functionality in a database application?

**Translate function, DROP DATABASE, dropdb.**

**Advantages: Allows easier coding when functions are already provided for you by PostgreSQL, instead of creating and optimizing your own functions.**

**Disadvantages: Since these superset functions are not ANSI standards, they may not work or may work differently on other SQL database implementations. This therefore limits your code to only PostgreSQL machines. This is a huge disadvantage as then the code is not portable, and one would have to rewrite the SQL statements to have it run on a different SQL server. For these reasons it is always better to use standard ANSI SQL code as much as possible unless there is absolutely no chance that the database or program would ever have to run on a different SQL Server**

4. Suppose someone wants to delete a customer that owes money. Describe (using the names of the appropriate tables in the sample database described in the tutorial) how the database should respond to a DELETE statement.

**DELETE FROM customer WHERE last\_name = 'Ely';**

**Server response:**

**\*\*\*\*\*\*\*\*\*\* Error \*\*\*\*\*\*\*\*\*\***

**ERROR: update or delete on table "customer" violates foreign key constraint "payment\_customer\_id\_fkey" on table "payment"**

**SQL state: 23503**

**Detail: Key (customer\_id)=(524) is still referenced from table "payment".**

**Due to referential integrity constraints, the server will not allow the customer to be deleted as they are still referenced in the payment table.**