SQL 101 – The Select Statement Exercises

1. Generate a current list of users who have access to the MySQL instance on boi-tstmysql01 and the host they are allowed to connect from. Which users can only connect from localhost? Hint: Use the host table in the mysql database.
2. Use the tables table in the information\_schema database to generate a list of databases and the engine(s) that it uses. What engine(s) does the MySQL database use? Hint: One of the columns in your query will be the table\_schema column.
3. Use the database that you created previously in order to write the following query: Write a query that generates a list of South American countries and the official language(s) they speak (IsOfficial is set to True). Order the output by country. What’s the official language of Venezuela?
4. Using the query from step 3, write a query that counts the number of official languages for all countries in North and South America. The output should list the name of the country and the total number of official languages. Order the output by number of official languages spoken in descending order. What country/countries have 3 or more official languages? Extra Credit: Create a list that counts the number of official languages for all countries in the world, but only list those countries that have 3 or more official languages. Which country/countries has the most official languages?
5. Use the Sakila database to write a query that creates a list of customers (first name, last name) based on the total amount of movie video rental purchases they have made. Sort the list so that customers making the most rental purchases are listed first. Hint: Use the customer and payment tables, and the SUM function.
6. Create a list of customers that have rented the movie Stagecoach Armageddon. Include their first name, last name, and phone number. Sort by their last name and first name. Hint: Your query will contain the following tables: customer, address, rental, inventory, and film.
7. Create a list of customers and phone numbers. Include all customers, even if they do not have a phone number listed. Hint: Use an outer join.