

CSC 343: Big Data Programming and Management

Lab #5: MySQL Assignment

Being familiar with *MySQL* will enable us to transfer data from MySQL into Hadoop, and to query and analyze data using Hive (which provides an SQL-like interface) and Impala (which uses SQL).

1. Complete the Basic MySQL Tutorial at <http://www.mysqltutorial.org/>, from MySQL SELECT through MySQL Sub Query, but skipping the following: MySQL LEFT JOIN, MYSQL RIGHT JOIN, MYSQL CROSS JOIN, MYSQL Self Join MySQL ROLLUP)
2. Specify the following queries:
 - a. Select the first name, last name, and email address of all employees with the last name of 'Patterson'.
 - b. Select the first name and last name of all employees whose last name begins with a 'P'.
 - c. Select the customer name (which is a company name) and credit limit of all customers from CT, and sort them by credit limit from highest to lowest.
 - d. Select the customer names and state for customers from CT, NY, and NJ.
 - e. Find the total number of customers
 - f. From the *payments* table, find the total amount spent by each customer. Display this information in two columns using the names *customerNumber* and *total*.
 - g. Submit a query that shows the customer name, the payment amount, and the date.
 - h. Find the customer with the highest single payment, and display only this customer (you can display the customer number or name), the payment date, and the and payment amount.