#### CS542: Homework 3

Using SQLite, develop and execute a single SQL for each of the following queries using the "tpch.db" database:

#### Problem 1 (SQL) [5 Points]

Report how many nations (i.e., the number of nations) in the nation table.

## Problem 2 (SQL) [5 Points]

Report how many suppliers (i.e., the number of suppliers) in the supplier table.

### Problem 3 (SQL) [5 Points]

Report how many suppliers (i.e., the number of suppliers) have positive account balance (i.e., with account balance greater than 0).

## Problem 4 (SQL) [5 Points]

Report how many customers (i.e., the number of customers) are in the nation of 'Egypt'.

## Problem 5 (SQL) [5 Points]

Report how many different brands are there in the part table.

## Problem 6 (SQL) [5 Points]

For all nations, report the name of the nation along with the name of the region to which a nation belong. Order the result in an ascending order of the nation name.

#### Problem 7 (SQL) [5 Points]

For each nation, report the nation name and the number of suppliers per each nation.

# Problem 8 (SQL) [5 Points]

Report the total (i.e., the sum) available quantity of all parts supplied by the supplier with the name of 'Supplier#000000006'.

### Problem 9 (SQL) [5 Points]

For orders with '1-URGENT' order priority, report how many items (i.e., the number of items) were received (i.e., |\_receiptdate) after their commit date (i.e., |\_commitdate).

### Problem 10 (SQL) [5 Points]

For each region, report the region name and the number of customers (per region) with a positive account balance (i.e., with account balance greater than 0).

### **Deliverables:**

Each student should deliver a report containing the required solution. Your final <u>submission must be uploaded</u> <u>to Canvas in pdf format.</u> Your report must contain a screenshot of the actual **SQL** and the <u>output</u> of executing the query. For instance, the answer of Problem 1 above in your report would look like the following:

# Problem 1 (SQL) [5 Points]

Report that number of nations in the nation table.