## CSE 111 – DATABASE SYSTEMS Lab 3

In this lab session you have to write 15 SQL queries for the TPCH database created and populated in the previous labs. The queries are the following:

- 1. Find the number of line items that have 1\_shipdate smaller than 1\_commitdate.
- 2. What is the minimum, maximum, and total account balance among the customers in the "FURNITURE" market segment?
- 3. What is the address, phone number, and account balance of "Customer#000000227"?
- 4. What is the name of the suppliers with an account balance larger than \$8,000?
- 5. Find all the items with the returnflag not set to "Y" on the receipt date of September 22, 1995. Print l\_receiptdate, l\_returnflag, l\_extendedprice, and l\_tax for every line item.
- 6. Find the total account balance of the suppliers from every nation. Print the nation name and the total account balance.
- 7. Find the total price o\_totalprice of orders made by customers from AMERICA in 1995.
- 8. What are the nations of the customers that made orders in December 1994? Print every nation only once and sort them in alphabetical order.
- 9. How many line items ordered by Customer#000000227 were received every month? Print the number of ordered line items corresponding to every (year, month) pair from l\_receiptdate.
- 10. Find the name of the suppliers from ASIA who have more than \$5,000 on account balance. Print the supplier name and their account balance.
- 11. Find how many 1-URGENT priority orders have been posted by customers from ROMANIA between 1993 and 1997, combined.
- 12. Find the total number of line items on orders with priority 3-MEDIUM supplied by suppliers from ARGENTINA and BRAZIL. Group these line items based on the year of the order from o\_orderdate. Print the year and the count. Check the substr function in SQLite.
- 13. Find the number of suppliers that provided a discount of 10% for one of their line items. For every such supplier, print its name and the number of such discounted line items.
- 14. Find the number of orders having status F. Group these orders based on the region of the customer who posted the order. Print the region name and the number of status F orders.
- 15. Find the total account balance of all the customers from AMERICA in the FURNITURE market segment.

In order to complete the lab you have to demo your queries to the TA in the lab.