**CMSC/CIS 255 Fall 2016**

**JOIN Exercise**

Use TSQL2012.

1. Show the customer-id, order-id, order-date, product-id and product unit-price information for all orders placed on March 6 2008.
2. Find the employee who placed the biggest single customer order on March 6 2008.
3. Show, for all customers living in the USA, their customer-id, total number of orders, and total quantity ordered.
4. We are considering sending each employee involved in Sales to the office of one of the shippers. Create a table showing all the possible combinations of employee first and last name and shipper company name.
5. Display the company name and customer-id of each customer, together with a column containing a Yes if they have ever placed an order in February of any year, and a No otherwise.
6. Find the cities from which the 5 most expensive products are supplied.
7. Which of the following are generally true for all tables? Justify your answer.
8. Is INNER JOIN commutative? i.e. x INNER JOIN y = y INNER JOIN x

1. Is INNER JOIN associative?

i.e. is (x INNER JOIN y) INNER JOIN z = x INNER JOIN (y INNER JOIN z)

1. Is OUTER JOIN commutative? i.e. x LEFT OUTER JOIN y = y LEFT OUTER JOIN x
2. Fill in the blank: x LEFT OUTER JOIN y = y \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ x
3. Is OUTER JOIN associative?

i.e. (x LEFT OUTER JOIN y) LEFT OUTER JOIN z =

x LEFT OUTER JOIN (y LEFT OUTER JOIN z)