STT 811

In-Class Assignment 2

With the Northwind data,

(1) Join together the regions and territories datasets, leaving out duplicate columns.

```
regionsTerritories <- sqldf("SELECT territories.*, regionDescription
                    FROM regions
                    INNER JOIN territories
                    WHERE regions.regionID = territories.regionID")
```

(2) Join together customers to orders, with the result having orderID, customer name, and country.

```
customerOrders <- sqldf("SELECT orderID, companyName AS customerName, country
                  FROM customers
                  INNER JOIN orders
                  ON customers.customerID = orders.customerID")
```

(3) Join together order details to customers, with all order detail fields and customer name.

```
customerDetails <- sqldf("SELECT order_details.*, companyName AS customerName
                    FROM order_details
                    INNER JOIN customers
                    INNER JOIN orders
                    ON order_details.orderID = orders.orderID
                    AND orders.customerID = customers.customerID")
```

(4) Join together suppliers and shippers <u>without a key</u> (a Cartesian join)

```
supplierShipper <- sqldf("SELECT *
                    FROM shippers
                    INNER JOIN suppliers")
```

(5) Join together employees to customers, with the result having customer name, country, and employee first and last name.

```
employeesToCustomers <- sqldf("SELECT companyName AS customerName,
customers.country, firstName, lastName
                      FROM customers
                      INNER JOIN employees
                      INNER JOIN orders
                      ON orders.employeeID = employees.employeeID
                      AND orders.customerID = customers.customerID")
```