**Name Stephen McGuire**

**CITC 2348 Lab Exercise 5 (30 pts)**

The purpose of this lab is to allow you to practice the knowledge you acquired about indexing in the areas of identifying where indexes are needed and in the creation of those indexes.

**Homework Activities**

1. Revisit all the information you have gathered thus far from discussions regarding the JJ database, labs, etc., and identify all the indexes needed on all the tables. Assume that the database tables have large amounts of data. (15 pts).

The deliverable should be in the form of a document that lists each index and why it is needed. For example:

* + An index on <column name> is needed because it is the primary key.
  + Using an index on CustomerName since it will speed up the search
  + Using index due to finding the cust ID
  + Using index due to finding the cust ID and it is the primary key
  + Creating an index on order ID to speed up finding the order details
  + Creating index on the oderdate to speed up the table
  + We need an index on productid because itis the primary key
  + We need an index since this is the primary key
  + We will make an index on column <id> because it will speed it up when you are looking into the table
  + We will make an index on Order\_ID due to it being the primary key
  + Creating a clustered index on Product\_name so products will find faster
  + Creating an index on the rep ssn to since that is the primary key

1. Provide a DDL script created with MS SQL Management Studio that creates all the indexes specified above. (15 points)

