IT481 – Unit 2 Ricardo Luna

# Assignment Instructions:

## Create the Northwind Database

The provided SQL script was re-written for Knex.js, a Postgres DB was created, migrations and seeds were ran to create & populate the tables.

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## Copy and paste the contents of the SQL\_Server\_NorthwindDB\_File.txt into the SQL SERVER…

File was re-written for Knex, see below:

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The content of the first couple of tables was put together by hand until I settled on a more automated means of creating things. This file is an example of having done some search & replace tasks to get the data into arrays, then from there loop over them to get them into the objects that Knex expects:

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## You will practice using a layered approach to building software

This portion of the assignment was to build an app. The next few screen captures cover the mentioned requirements:

**Requirement**: *Create an application that implements a business layer and a database layer.*

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**Requirement**: *The application should have a GUI that displays customer data*

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**Requirement**: *The GUI will use the business layer to perform its actions.*

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**Requirement**:

* Create methods to return the number of customers and a list of customer names.
* Create a database object that also returns the number of customers and a list of customer last names.
* Create a business layer object to do the actual interaction with the data access layer.
* All of the interactions with the data layer are performed within the business layer.
* Remember that the methods return raw data, not a table structure.
  + Knex returns an object and Express’ response object has a method (res.json) thatstringifies it and returns it to the business layer

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**Requirement**: *Complete the application with all of the layers shown in the assignment instructions and provide screenshots of the execution of the execution of the program with sample input.*

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**Requirement**:

● Creates a new entry for the Unit 2 application in the SCM.  
● Successfully uploads code to the repository.

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