Database Design, CSCI 340, Spring 2016 Lab 7, Normalization, March 11

Download and open the Excel file Lab07_SalesOrder.xlsx. This file contains data with the following attributes:

salesOrderID
orderDate
productID
productName
unitPrice
standardCost
categoryID
categoryName
orderQty
regionID
territoryName
countryCode

1. Give likely functional dependencies amongst these attributes.

```
salesOrderID → orderDate, regionID, territoryName, countryCode productID → productName, categoryID, categoryName categoryID → categoryName regionID → territoryName, countryCode salesOrderID, productID → unitPrice, standardCost, orderQty
```

2. Import the sales data given in the Excel file into Access and use the Access table analyzer to create new tables.

Open a blank Access database Access 2013 Blank desktop database

Import the Excel spreadsheet EXTERNAL DATA tab

Excel

Browse to file

Import the source data into a new table in the current database

Use the table analyzer to create new tables

DATABASE TOOLS tab

Analyze table

Read through the examples given

Let the wizard do the decomposition

List any tables which are similar to our design

One table is the Category Table Another is the Region table

Go back and create the design yourself.

Drag fields out to create new tables
Set keys for the tables

3. Look at each of your table to see if they are as expected. List the number of records in each table.

Order table has 31,465 records
Category table has 35 records
Product table has 266 records
Region table has 10 records
OrderDetails table has 121,317 records
This is the same as the original Excel file