

“Flatten” 3NF Relationships

Introduction

The goal of this lab is to give you the opportunity to take dimension related data from 3NF to 1NF.

Getting Started

A schema reflecting the logical structure of the 3NF customer tables from the AdventureWorks2012 OLTP (**AW**) database can be found under the course Blackboard item *Labs/FlattenDimensions*. Open and examine the 3NF tables pertaining to customers in the *AdventureWorks2012 3NF Customer Related Tables.pdf* database schema PDF file.

Problem 1

Use SQL Server Management Studio to construct a query to “flatten” the OLTP tables related to customers into something resembling a customer “dimension”. As is customary, the dimension should be named *DimCustomer*. This will require the following conceptual steps.

1. Decide which customer attributes you need to retain in your customer dimension.
2. Create an empty table containing the identified attributes. Note: for this lab we will create our table in the tempdb database by naming our new table *#DimCustomer*.
3. Migrate the data from the 3NF tables to the newly created *#DimCustomer* table. The attributes you should keep are highlighted in yellow. Keep only ‘cell’ phone numbers and ‘home’ address. **Why do I have to specify this information?** Don’t know why? Look at the data. **Hint:** you will need to use the SQL DDL [INSERT INTO](#) statement to move your data.

Note: for the purposes of this demonstration we are making a massive simplifying assumption that there NO transformations to any of the data we are moving.