# Supporting Documentation

## Function Specifications: Phone Number

**Function Name:** FormatPhoneNumber (created in the dbo schema)

**Input Parameter:** PhoneNumberToFormat nvarchar(16)

**Return Value:** nvarchar(16)

**Rules to apply in formatting:**

* Any phone number beginning with the international dialing code (ie: a + sign), should be left unformatted.
* Phone numbers that contain 10 digits should be formatted as: (XXX) XXX-XXXX
* Phone numbers that contain 8 digits should be formatted as: XXXX-XXXX
* Phone numbers that contain 7 digits should be formatted as: XXX-XXXX
* Phone numbers that contain 6 digits should be formatted as: XXX-XXX
* All other characters should be stripped out
* Phone numbers that have different numbers of digits should have only the digits returned ie: (9234) 2345-2342 should be returned as 923423452342.

## Requirements: Comma-Delimited List Function

You need to create another version of this function called dbo.IntegerListToTable that takes a comma-delimited list of integers and returns a similar table. You need to design, implement and test the function.

You can assume that all integers sent to the function will be eight digits or less in length.

## Problematic Query

SELECT dbo.JoinNames(FirstName,MiddleName,LastName) AS FullName

FROM Marketing.Prospect

ORDER BY FullName;