# **Case Study:**

Below is the ER Diagram for Dim.Geography table for AdventureWorksDW2019



Write the scenarios and test-cases using the below mentioned categories

1. Structure Validation

Example:

1. Validation of source and the target table structure as per the table mapping.
2. Data type, Field, Column name Validation in source and target System
3. Validate Constraints

Example: Validating the constraints and ensuring that they are applied on the expected tables.

1. Validating Mapping document

Example: Validating the mapping to ensure all the information has been provided.

1. Null Validation

Example: Verify the Null values where Not Null is mentioned for that field.

1. Data Consistency check

Example: Validating the misuse of integrity constraints like Foreign Key.

1. Date Validation check

Example: FirstOrderYear should not be greater than LastOrderYear, Data format , NULL values etc

1. Data Completeness Validation

Example:

* + Count the number of records in the source and the target systems.
  + Boundary value analysis.
  + Primary keys validation

1. Data Cleaning

Example: Un necessary data should be deleted before loading the data to the staging area.

1. Data Transform validation

Example:

* + Validate parent-child relationship in the data
  + Validate data types in the warehouse

1. Data Quality Validation

Example: Number check, date check, precision check, data check etc.

1. Duplicate Validation

Example: Validating duplicate values in the target system