**OVERVIEW:**

Requirement to split up the customers based on the country and load them into corresponding country tables.

This document provides a summary of the solution design to meet the requirements.

**SCOPE:**

We are going to use SSIS ETL tool to achieve the requirement. Using a SSIS package we will split the customers country wise in country specific tables.

**BUSINESS REQUIREMENT:**

1. Customer data will be extracted from Source System and will be provided in form of a file.
2. Split the customers country wise in country specific tables.

**TECHNICAL SPECIFICATIONS:**

1. Date and time formats will be provided.
2. Data types for data values and whether the column is mandatory or not will be provided in the following format.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| File Position | Column\_Name | Filed Length | Data Type | Mandatory | Key Column |
| 1 | Customer Name | 255 | VARCHAR | Y | Y |
| 2 | Customer ID | 18 | VARCHAR | Y | N |
| 3 | Customer Open Date | 8 | DATE | Y | N |
| 4 | Last Consulted Date | 8 | DATE | N | N |
| 5 | Vaccination Type | 5 | CHAR | N | N |
| 6 | Doctor Consulted | 255 | CHAR | N | N |
| 7 | State | 5 | CHAR | N | N |
| 8 | Country | 5 | CHAR | N | N |
| 9 | Post Code | 5 | INT | N | N |
| 10 | Date of Birth | 8 | DATE | N | N |
| 11 | Active Customer | 1 | CHAR | N | N |

1. Sample data in the file:

|H|Customer\_Name|Customer\_Id|Open\_Date|Last\_Consulted\_Date|Vaccination\_Id|Dr\_Name|State|Country|DOB|Is\_Active

|D|Alex|123457|20101012|20121013|MVD|Paul|SA|USA|06031987|A

|D|John|123458|20101012|20121013|MVD|Paul|TN|IND|06031987|A

|D|Mathew|123459|20101012|20121013|MVD|Paul|WAS|PHIL|06031987|A

|D|Matt|12345|20101012|20121013|MVD|Paul|BOS|NYC|06031987|A

|D|Jacob|1256|20101012|20121013|MVD|Paul|VIC|AU|06031987|A

1. Sample data in table:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Cust\_I | Open\_Dt | Consul\_Dt | VAC\_ID | DR\_Name | State | County | DOB | FLAG |
| Alex | 123457 | 20101012 | 20121013 | MVD | Paul | SA | USA | 6031987 | A |
| John | 123458 | 20101012 | 20121013 | MVD |  | TN | IND | 6031987 | A |
| Mathew | 123459 | 20101012 | 20121013 | MVD |  | WAS | PHIL | 6031987 | A |
| Matt | 12345 | 20101012 | 20121013 | MVD |  | BOS | NYC | 6031987 | A |
| Jacob | 1256 | 20101012 | 20121013 | MVD |  | VIC | AU | 6031987 | A |

**SOLUTION:**

Queries used:

1. To create country table – Holding the country names to create the tables dynamically at runtime.

IF OBJECT\_ID('Table\_Country', 'U') IS NULL

BEGIN

CREATE TABLE Table\_Country

(Country\_Id INT PRIMARY KEY IDENTITY (1, 1),

CountryName CHAR(5)

);

END

1. To create country specific table:

DECLARE @QUERY NVARCHAR(MAX),

@TBL NVARCHAR(20)

SET @TBL = ?

IF OBJECT\_ID(@TBL, 'U') IS NULL

BEGIN

SET @QUERY =

'CREATE TABLE ' +@TBL+ ' (

Name VARCHAR(255) PRIMARY KEY,

Cust\_I VARCHAR(18) NOT NULL,

Open\_Dt CHAR(8) NOT NULL,

Consul\_Dt CHAR(8),

VAC\_ID CHAR(5),

DR\_Name CHAR(255),

State CHAR(5),

Country CHAR(5),

DOB CHAR(8),

FLAG CHAR(1)

)'

exec sp\_executesql @QUERY

END