Task 1: Create Table Queries

```
-- Create staging table
CREATE TABLE Staging (
  Customer Name VARCHAR(255),
  Customer_ID VARCHAR(18),
  Open_Date DATE,
  Last Consulted Date DATE,
  Vaccination_Type CHAR(5),
  Doctor_Consulted VARCHAR(255),
  State CHAR(5),
  Country CHAR(5),
  Post Code INT,
  DOB DATE,
  Active_Customer CHAR(1)
);
-- Create country-specific table (e.g India)
CREATE TABLE Table India (
  Customer_Name VARCHAR(255),
  Customer ID VARCHAR(18),
  Open Date DATE,
  Last_Consulted_Date DATE,
  Vaccination_Type CHAR(5),
  Doctor_Consulted VARCHAR(255),
  State CHAR(5),
  Country CHAR(5),
  Post_Code INT,
  DOB DATE,
  Active_Customer CHAR(1),
  Age INT,
  Days_Since_Last_Consulted INT
);
```

Task 2: Create Tables with Derived Columns

```
-- Create the table with additional derived columns CREATE TABLE Table_India (
    Customer_Name VARCHAR(255),
    Customer_ID VARCHAR(18),
    Open_Date DATE,
    Last_Consulted_Date DATE,
    Vaccination_Type CHAR(5),
```

```
Doctor_Consulted VARCHAR(255),
  State CHAR(5),
  Country CHAR(5),
  Post Code INT,
  DOB DATE,
  Active Customer CHAR(1),
  Age INT,
  Days_Since_Last_Consulted INT
);
-- Insert data with the derived columns and filter where last consulted > 30 days
INSERT INTO Table_India
SELECT
  Customer_Name,
  Customer ID,
  Open_Date,
  Last_Consulted_Date,
  Vaccination Type,
  Doctor_Consulted,
  State,
  Country,
  Post_Code,
  DOB.
  Active Customer,
  FLOOR(DATEDIFF(CURRENT_DATE, DOB) / 365) AS Age,
  DATEDIFF(CURRENT DATE, Last Consulted Date) AS Days Since Last Consulted
FROM Staging
WHERE Country = 'IND'
AND DATEDIFF(CURRENT_DATE, Last_Consulted_Date) > 30;
Task 3: Create necessary validations
```

```
-- 1. Validate if DOB is in the future
SELECT * FROM Staging WHERE DOB > CURRENT DATE;
-- 2. Validate if Last Consulted Date is in the future
SELECT * FROM Staging WHERE Last_Consulted_Date > CURRENT_DATE;
-- 3. Validate if Last_Consulted_Date is before Open_Date
SELECT * FROM Staging WHERE Last Consulted Date < Open Date;
-- 4. Validate if Post Code contains non-numeric values
SELECT * FROM Staging WHERE TRY CAST(Post Code AS INT) IS NULL;
```

-- 5. Validate if Active_Customer contains invalid values SELECT DISTINCT Active_Customer FROM Staging WHERE Active_Customer NOT IN ('Y', 'N');