Objectives (ETL & Script)

(OLTP)+(OLTP) ---> (OLAP)

1). Make the original data in Flat Files Read Only (Preserve Original Data).

2). Create Folders/Files for validation and distributions of data.

3). Copy the all the data from the original CSV files to other CSV files (avoids contamination).

4). Check to see if the New Patient data files exist to validate the emails.

5). Validate the Emails while splitting them into a valid and invalid folder with files.

6). Integrate the validated Patient's information into the Patients (OLTP) database.

7). Merge today's date with time in the visits files for Bellevue, Kirkland, and Redmond CSV files new CSV files and a Newly Created OLAP Data Warehouse.

8). Import the Visits Data directly into the Patients Visits table with Clinic identified NULL's as 0. Handle all NULL values and convert datatypes as needed.

9). Finally, move the data from the Patients tables into the DWCorporateReports (OLAP) Database.

***Please see "VConnSettings" button on the website (Visits Connection Settings).

Problems encountered:

Client column missing on Bellevue CSV file though other CSV files had Client, converted Null's to 0 from using a derived column for distribution into the OLTP database. Email in CSV files needed validating, split files into Valid and In-Valid CSV files using C# Regex. Datatypes in OLTP database were set to money, converted them to decimal. Set up an OLAP Data Warehouse modeling structure with constraints based on the OLTP criteria and converted datatypes as needed.

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Created a calculated column in the OLAP database for hours worked
and calculated the time values from the OLTP database.
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