Data change log

# Preparation

# Creation of a data based Named “Divvy\_tripdata” on a local MS SQL Server with a pre-existing schema “dbo”

# Upload of the 24 csv files in separate tables using “Azure Data Studio”, with a naming convention “Year” + “Month” in two characters string format (Example : “202101”, “202204”)

# Creation of a SQL procedure to extract and store data in a single table by year using this [script](https://drive.google.com/file/d/1idR_JkOlwYjB6SSRzcSJJUcN-IRpmIi5/view?usp=share_link)

# Creation of two data tables for 2021 and 2022 with the naming convention “data\_” + “Year” and execution of the stored procedure to populate them with their respective data using this [script](https://drive.google.com/file/d/1EQ6PThjwKBsnvdan2kk7h3EidKQcWkK1/view?usp=share_link)

# Creation of a Data Summary table in wide and long format using this [script](https://drive.google.com/file/d/1pZykPiD2k08-t9IVNw6LF-NAKTgf56Fm/view?usp=drive_linkk=share_link)

# Creation of data Summary table including stations id and counts of related names and coordinates to check Integrity using this [script](https://drive.google.com/file/d/16dy2JMefwgKsG2m5k--sS65Lln054ZlW/view?usp=drive_link)

# Checking Dates and times fields’ integrity with this [script](https://drive.google.com/file/d/1uu4iEHCA9rVozUc5AVAM5g6PC1siL85t/view?usp=drive_link)

# Cleaning

# Creation of a Stations Table

# Creation of Cleaned Tables to be used for data aggregations using this [script](https://drive.google.com/file/d/1VPZ9T68wwtXwx2kEte6LqWxZiQrQDcq9/view?usp=drive_link), excluding records with inconsistent data

# Analysis

# Creation of a series of aggregations using this [script](https://drive.google.com/file/d/1-8q3dWDNHmEE-Isn5tvHLKsinWiH3KEn/view?usp=drive_link) based on the cleaned tables and after multiple transformations to answer business questions such as most frequent routes, Average rides’ durations, frequent times of the day, etc.