##UNION ALL TABLES

SELECT

DISTINCT \*

FROM (

SELECT

vendor\_id,

pickup\_datetime,

dropoff\_datetime,

passenger\_count,

trip\_distance,

rate\_code,

payment\_type,

fare\_amount,

extra,

mta\_tax,

tip\_amount,

tolls\_amount,

imp\_surcharge,

total\_amount,

pickup\_location\_id,

dropoff\_location\_id

FROM

`cis-9440-group-project-332602.cis9440\_yelllowcab\_project.tlc\_yellow\_trips\_2017`)

UNION ALL (

SELECT

vendor\_id,

pickup\_datetime,

dropoff\_datetime,

passenger\_count,

trip\_distance,

rate\_code,

payment\_type,

fare\_amount,

extra,

mta\_tax,

tip\_amount,

tolls\_amount,

imp\_surcharge,

total\_amount,

pickup\_location\_id,

dropoff\_location\_id

FROM

`cis-9440-group-project-332602.cis9440\_yelllowcab\_project.tlc\_yellow\_trips\_2018`)

UNION ALL (

SELECT

CAST(VendorID AS STRING ) AS vendor\_id,

CAST(tpep\_pickup\_datetime AS DATETIME) AS pickup\_datetime,

CAST(tpep\_dropoff\_datetime AS DATETIME) AS dropoff\_datetime,

passenger\_count,

CAST(trip\_distance AS NUMERIC ) AS trip\_distance,

CAST(RatecodeID AS STRING ) AS rate\_code,

CAST(payment\_type AS STRING ) AS payment\_type,

CAST(fare\_amount AS NUMERIC ) AS fare\_amount,

CAST(extra AS NUMERIC ) AS extra,

CAST(mta\_tax AS NUMERIC ) AS mta\_tax,

CAST(tip\_amount AS NUMERIC ) AS tip\_amount,

CAST(tolls\_amount AS NUMERIC ) AS tolls\_amount,

CAST(improvement\_surcharge AS NUMERIC ) AS imp\_surcharge,

CAST(total\_amount AS NUMERIC ) AS total\_amount,

CAST(PULocationID AS STRING ) AS pickup\_location\_id,

CAST(DOLocationID AS STRING ) AS dropoff\_location\_id,

FROM

`cis-9440-group-project-332602.cis9440\_yelllowcab\_project.tlc\_yellow\_trips\_2019`)

UNION ALL (

SELECT

CAST(VendorID AS STRING ) AS vendor\_id,

CAST(tpep\_pickup\_datetime AS DATETIME) AS pickup\_datetime,

CAST(tpep\_dropoff\_datetime AS DATETIME) AS dropoff\_datetime,

passenger\_count,

CAST(trip\_distance AS NUMERIC ) AS trip\_distance,

CAST(RatecodeID AS STRING ) AS rate\_code,

CAST(payment\_type AS STRING ) AS payment\_type,

CAST(fare\_amount AS NUMERIC ) AS fare\_amount,

CAST(extra AS NUMERIC ) AS extra,

CAST(mta\_tax AS NUMERIC ) AS mta\_tax,

CAST(tip\_amount AS NUMERIC ) AS tip\_amount,

CAST(tolls\_amount AS NUMERIC ) AS tolls\_amount,

CAST(improvement\_surcharge AS NUMERIC ) AS imp\_surcharge,

CAST(total\_amount AS NUMERIC ) AS total\_amount,

CAST(PULocationID AS STRING ) AS pickup\_location\_id,

CAST(DOLocationID AS STRING ) AS dropoff\_location\_id,

FROM

`cis-9440-group-project-332602.cis9440\_yelllowcab\_project.tlc\_yellow\_trips\_2020`);

##CREATING DIM COMPLAINT

WITH

Dim\_Complaint\_Desc AS (

SELECT

complaint\_type,

descriptor,

incident\_zip,

incident\_address,

street\_name,

city,

borough

FROM

`cis-9440-group-project-332602.cis9440\_311.311\_service\_request` )

SELECT

ROW\_NUMBER() OVER() AS complaint\_id,

\*

FROM

Dim\_Complaint\_Desc

ORDER BY

complaint\_id ASC;

##CREATING DIM DATE

WITH

Dim\_Date AS (

SELECT

EXTRACT(year

FROM

pickup\_datetime) AS year,

EXTRACT(month

FROM

pickup\_datetime) AS month,

EXTRACT(week

FROM

pickup\_datetime) AS week,

EXTRACT(day

FROM

pickup\_datetime) AS day,

EXTRACT(DAYOFWEEK

FROM

pickup\_datetime) AS day\_of\_week,

FROM

`cis-9440-group-project-332602.cis9440\_yelllowcab\_project.tlc\_yellow\_trips` )

SELECT

ROW\_NUMBER() OVER() AS date\_id,

\*

FROM

Dim\_Date

ORDER BY

date\_id ASC;

##CREATING DIM LOCATION

WITH

Dim\_location AS (

SELECT

location,

street\_name,

incident\_zip,

borough,

city,

taxi\_pick\_up\_location,

longitude,

latitude

FROM

`cis-9440-group-project-332602.cis9440\_311.311\_service\_request` )

SELECT

ROW\_NUMBER() OVER() AS location\_id,

\*

FROM

Dim\_Location

ORDER BY

location\_id ASC;

##CREATING DIM PAYMENT

WITH

Dim\_Payment AS (

SELECT

rate\_code,

payment\_type,

fare\_amount,

extra,

mta\_tax,

tip\_amount,

tolls\_amount,

imp\_surcharge,

total\_amount

FROM

`cis-9440-group-project-332602.cis9440\_yelllowcab\_project.tlc\_yellow\_trips` )

SELECT

ROW\_NUMBER() OVER() AS payment\_id,

\*

FROM

Dim\_Payment

ORDER BY

payment\_id ASC;

##CREATING DIM TRIP

WITH

Dim\_Trip AS (

SELECT

vendor\_id,

passenger\_count,

pickup\_location\_id,

dropoff\_location\_id,

trip\_distance,

rate\_code

FROM

`cis-9440-group-project-332602.cis9440\_yelllowcab\_project.tlc\_yellow\_trips` )

SELECT

ROW\_NUMBER() OVER() AS trip\_id,

\*

FROM

Dim\_Trip

ORDER BY

trip\_id ASC;