



# TASK 2

Student Name

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Course

**Power Bi Specialist Final Project**

Date of Submission

**Tuesday sep 16, 2025**

Instructor

**Eng. Sherihan Ali**

Initiative

**DEPI**

TemplateLAB



# رواد مصر الرقمية

## Problem Definition and Research Questions

### Title Page:

- Project Title: Analyzing **MTA** Ridership Patterns Post-COVID-19
- Team Members:
  - Omar Hamed Ali
  - Soliman yehia Soliman Mahmoud
  - Mohamed Ahmed Mohamed AlFakharany
  - Samir Mahmoud Samir
  - Ahmed Nasr Abdel Motey Mesalem
- Supervisor: eng. **Sherihan Ali**
- Date: [9/26/2025]

## Checking the Data (Assumptions & Data Quality)

What You Checked	What You Found	What You Did
<b>Missing Values</b>	0 blanks	
<b>Duplicates</b>	0 Duplicats	
<b>Outliers</b>	0 indicates no passengers	Removed records with negative sales
<b>Column Types</b>	The columns was text	Changed he columns type from text to whole numbers refer to the number of people and percentage refer to the %

- Steps You Did in Power Query

## Checking the Data (Assumptions & Data Quality)

### Steps You Did in Power Query

Write step-by-step what you did to clean the data. You can use numbers like a recipe!

**Add screenshots if you can.**

## No Duplicates

Query Settings

let columnNames = {"Date", "Subways: Total Estimated Ridership", "Subways: % of Comparable Pre-Pandemic Day", "Buses: Total Estimated Ridership", "Buses: % of Comparable Pre-Pandemic Day"};

Properties: Name: MTA

Applied Steps: Source, Promoted Headers, Changed Type, Converted Percentages to De..., Changed Type1, Kept Duplicates

This table is empty.

## No Blanks

Rows Before blanks = Rows After Remove Blanks

Query Settings

Table.SelectRows(#"Changed Type1", each not List.IsEmpty(List.RemoveMatchingItems(Record.FieldValues(\_), {"", null})))

Properties: Name: MTA

Applied Steps: Source, Promoted Headers, Changed Type, Converted Percentages to De..., Changed Type1, Removed Blank Rows

Date	Subways: Total Estimated Ridership	Subways: % of Comparable Pre-Pandemic Day	Buses: Total Estimated Ridership	Buses: % of Comparable Pre-Pandemic Day
3/1/2020	2212965	97.00%	984908	98.00%
3/2/2020	5329915	96.00%	2209066	96.00%
3/3/2020	5481103	98.00%	2228608	98.00%
3/4/2020	5498809	99.00%	2177165	99.00%
3/5/2020	5496453	99.00%	2244515	99.00%
3/6/2020	5189447	93.00%	2066743	93.00%
3/7/2020	2814637	92.00%	1249085	92.00%
3/8/2020	2120656	93.00%	957163	93.00%
3/9/2020	4973513	89.00%	2124770	89.00%
3/10/2020	4867818	87.00%	2111989	87.00%

## No error

Query Settings


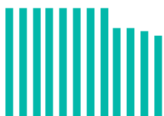


Table.SelectRowsWithErrors(#"Inserted Quarter", {"Date", "Subways: Total Estimated Ridership", "Subways: % of Comparable Pre-Pandemic Day", "Buses: Total Estimated Ridership", "Buses: % of Comparable Pre-Pandemic Day", "Year", "Month", "Day", "Quarter"})

Properties: Name: MTA

Applied Steps: Source, Promoted Headers, Changed Type, Converted Percentages to De..., Changed Type1, Inserted Year, Inserted Month, Duplicated Column, Removed Columns, Inserted Day, Inserted Day of Week, Removed Columns1, Inserted Quarter, Kept Errors

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## Added new columns

12 <sub>3</sub> Year	12 <sub>3</sub> Month	12 <sub>3</sub> Day	12 <sub>3</sub> Quarter
<ul style="list-style-type: none"> <li>Valid 100%</li> <li>Error 0%</li> <li>Empty 0%</li> </ul>  <p>5 distinct, 0 unique</p>	<ul style="list-style-type: none"> <li>Valid 100%</li> <li>Error 0%</li> <li>Empty 0%</li> </ul>  <p>12 distinct, 0 unique</p>	<ul style="list-style-type: none"> <li>Valid 100%</li> <li>Error 0%</li> <li>Empty 0%</li> </ul>  <p>31 distinct, 0 unique</p>	<ul style="list-style-type: none"> <li>Valid 100%</li> <li>Error 0%</li> <li>Empty 0%</li> </ul>  <p>4 distinct, 0 unique</p>
2020	3	1	1
2020	3	2	1
2020	3	3	1
2020	3	4	1
2020	3	5	1
2020	3	6	1
2020	3	7	1
2020	3	8	1
2020	3	9	1
2020	3	10	1
2020	3	11	1

Mention if you created new columns (e.g., "Year" from "Order Date").

## Final Clean Dataset (Before & After)

Before Cleaning	After Cleaning
1706 rows	1706 rows
0 missing customer names	0 missing names (removed them)