WHAT DOES THIS DATA TELL?

DATA VOLUME
PENGANGKUTAN SAMPAH DI KALI SUNGAI SITU WADUK TAHUN 2021

Count : 600.000 row

WHAT WE DO FIRST ?

COLUMN

periode data volume sampah perhari bulan

kecamatan titik lokasi panjang atau luas

satuan panjang luas

REPLACE MISSING VALUES

REPLACE MISSING VALUES IN THE 'SATUAN_PANJANG_LUAS' COLUMN WITH THE MODE (MOST FREQUENT VALUE) TO ENSURE DATA CONSISTENCY.

CLEAN DISTRICT NAMES

CLEANS THE DISTRICT NAMES BY REMOVING EXTRA SPACES AND CONVERTING THEM TO TITLE CASE FORMAT.

HANDLE STRING VALUES

THE PARSE_AND_CONVERT FUNCTION HANDLES STRING VALUES CONTAINING UNITS OR FRACTIONS, SUCH AS '3500/70' OR '800M', BY CONVERTING THEM TO NUMERIC VALUES. IT USES REGULAR EXPRESSIONS TO EXTRACT NUMERIC COMPONENTS AND HANDLES DATETIME VALUES BY REPLACING THEM WITH 0. THIS ENSURES THAT THE 'PANJANG_ATAU_LUAS' COLUMN IS CONVERTED INTO A CONSISTENT NUMERIC FORMAT FOR FURTHER ANALYSIS.

REPLACE INVALID VALUES

"THE CODE REPLACES CERTAIN INVALID OR INCONSISTENT VALUES IN THE 'VOLUME_SAMPAH_PERHARI' COLUMN, SUCH AS '-', '?', '\', AND '·', WITH 0. IT ALSO CORRECTS SPECIFIC STRING REPRESENTATIONS LIKE '0..5' AND 'O.5' TO 0.5 AND '`1' TO 1, ENSURING THE DATA IS CONSISTENT AND READY FOR FURTHER ANALYSIS."
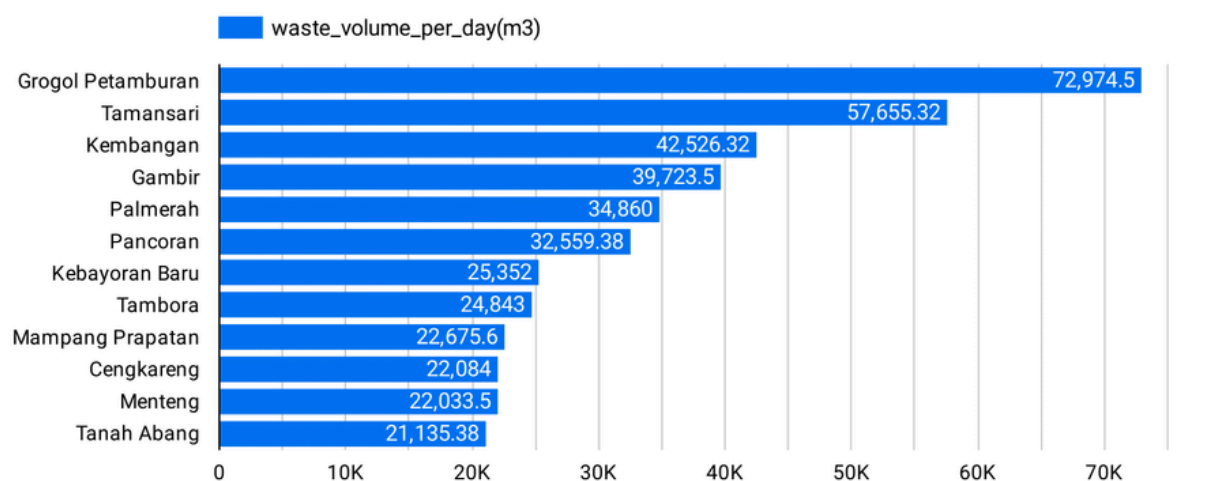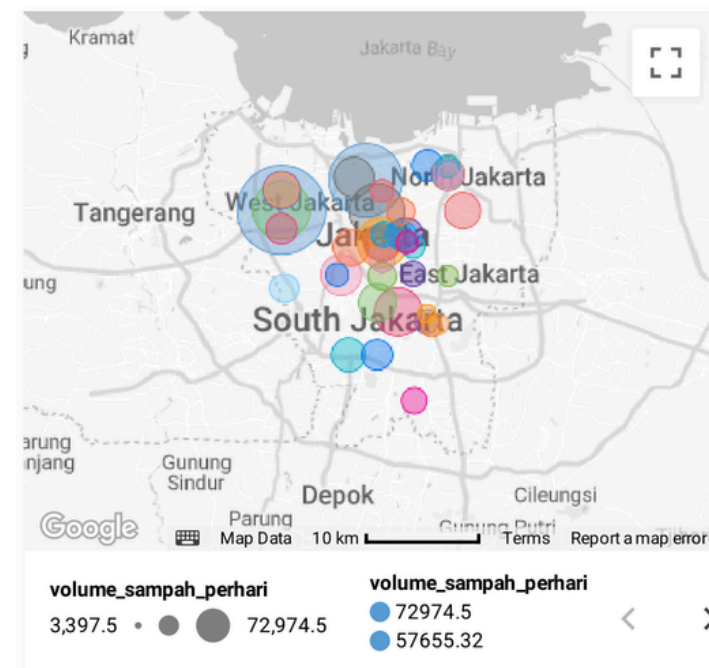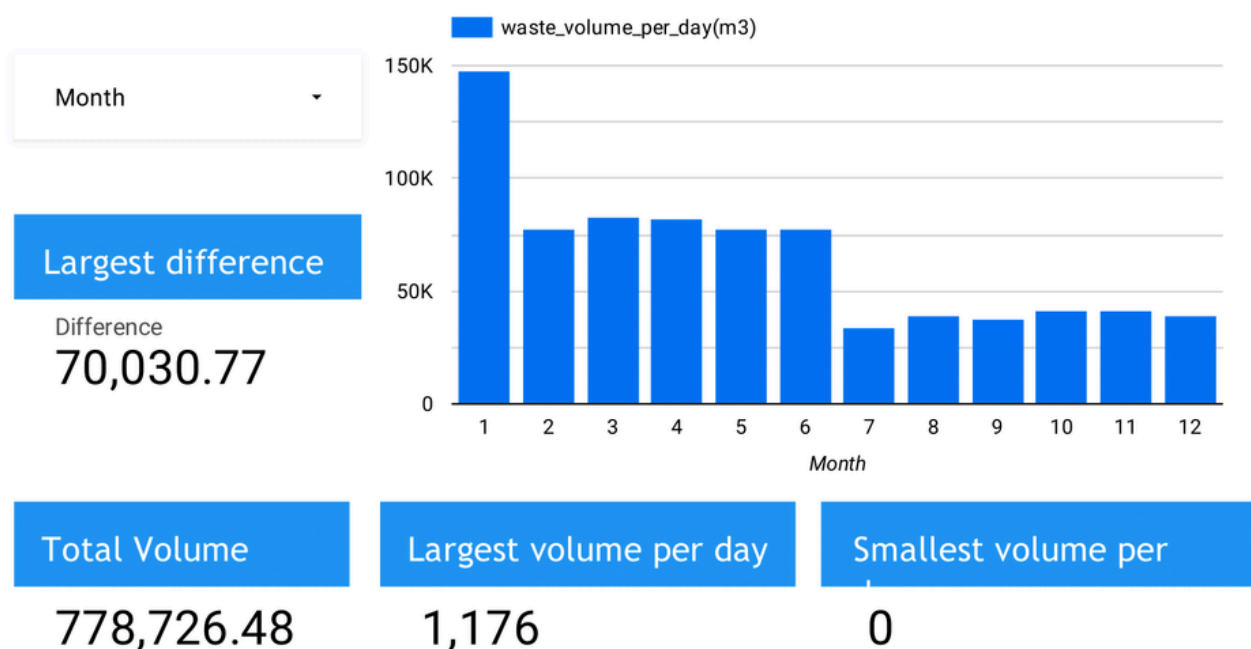
COLUMN TO NUMERIC

CONVERT THE 'PANJANG_ATAU_LUAS' COLUMN TO NUMERIC FORMAT USING PD.TO_NUMERIC, HANDLING ERRORS BY REPLACING INVALID ENTRIES WITH NAN. THEN, REPLACE NAN VALUES WITH 0 TO ENSURE THE COLUMN CONTAINS ONLY NUMERIC DATA.

WHAT WE DO FIRST ?

Jakarta Waste Transportation Volume Data Dashboard 2021

Month ▾

Largest difference

Difference
70,030.77

waste_volume_per_day(m3)

150K
100K
50K
0
1 2 3 4 5 6 7 8 9 10 11 12
Month

Total Volume
778,726.48

Largest volume per day
1,176

Smallest volume per
0

volume_sampah_perhari
3,397.5 • ● ● 72,974.5

volume_sampah_perhari
● 72974.5
● 57655.32

waste_volume_per_day(m3)

District	Volume
Grogol Petamburan	72,974.5
Tamansari	57,655.32
Kembangan	42,526.32
Gambir	39,723.5
Palmerah	34,860
Pancoran	32,559.38
Kebayoran Baru	25,352
Tambora	24,843
Mampang Prapatan	22,675.6
Cengkareng	22,084
Menteng	22,033.5
Tanah Abang	21,135.38

0 10K 20K 30K 40K 50K 60K 70K

Highest waste volume

district
Grogol Petamburan

Lowest waste volume

district
Cipayung

DESCRIPTION

THIS DASHBOARD VISUALIZES THE **WASTE TRANSPORTATION VOLUME DATA** FROM RIVERS, CANALS, RESERVOIRS, AND LAKES IN JAKARTA DURING 2021. THE DATA REVEALS A TOTAL WASTE VOLUME OF **778,726.48 M³** MANAGED THROUGHOUT THE YEAR, WITH THE HIGHEST TRANSPORTATION VOLUME RECORDED IN **GROGOL PETAMBURAN AND THE LOWEST IN CIPAYUNG**. A SIGNIFICANT MONTHLY VOLUME DIFFERENCE OF **70,030.77 M³** HIGHLIGHTS MAJOR FLUCTUATIONS, WITH **JANUARY** SHOWING MUCH HIGHER WASTE VOLUME COMPARED TO SUBSEQUENT MONTHS, AS ILLUSTRATED IN THE BAR CHART. ADDITIONALLY, THE DATA INDICATES DAYS WITH NO WASTE TRANSPORTATION ACTIVITIES, MARKED BY A **VOLUME OF 0 M³**, POTENTIALLY CAUSED BY OPERATIONAL DISRUPTIONS, HOLIDAYS, OR OTHER FACTORS. THESE INSIGHTS EMPHASIZE THE VARIABILITY IN WASTE MANAGEMENT ACTIVITIES AND THE NEED FOR IMPROVED STRATEGIES TO ENSURE CONSISTENT AND EFFICIENT WASTE HANDLING ACROSS JAKARTA.

REFERENCE

Katalog.data.go.id

Github

Looker visualization

"

"IT IS A CAPITAL MISTAKE TO THEORIZE BEFORE ONE HAS DATA." — SHERLOCK HOLMES

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