Summary

What are the most common reasons for delays and breakdowns?

- 1) The majority of breakdowns are occurring due to Mechanical Problems including, "Won't Start".
- 2) Overwhelmingly, the main cause of delays is due to Heavy Traffic.

How do delay times vary by bus company and borough?

- 1) Delay times vary greatly between bus companies. Companies with the highest delays include Selby Transportation, Little Linda Bus Co, and Pride Transportation.
- 2) The Boros with the highest delay times are the main areas of NYC. These areas with the highest concentration of people and vehicles which would account for the longer delays.

Is there a correlation between specific days of the week and the frequency of breakdowns or delays?

- 1) Gradual decrease in breakdowns throughout the week.
- 2) There is a spike in delays on Monday and lower delays on Fridays.

Conclusion & Recommendations

- 1) More precautionary maintenance done to prevent mechanical problems; Potentially served monthly.
- 2) Have buses pick up the majority of students at non-high traffic times.
- 3) The almost 14k delays caused by mechanical problems can be resolved with the breakdown plan.
- 4) Recommended to use the Delay TimeTable and Chart to compare to number of delays, boros, and total number of trips.
- 5) Delays could be due to mechanical issues that can be fixed with regular maintenance, high density boros where routes need to be reworked, or inneficient handling of company and their contract should be let go.
- 6) Schedule maintenance over weekends to limit breakdowns at the beginning of the week.
- 7) Since the majority of delays are caused by traffic, we can assume the decrease is caused by fewer people going to work or driving on a Friday.

Assumptions

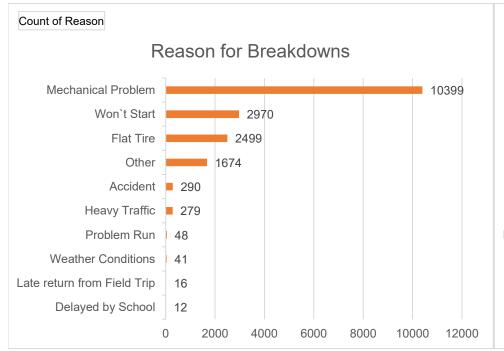
- 1 Similar-sounding buss company names can be aggregated together as the same company.
- One event marked "running late" did not have a delay time listed, assumed 0 min delay.
- 3 Excluded null boro's in boro delay analysis.
- 4 Removed blanks and outliers in weekday analysis.

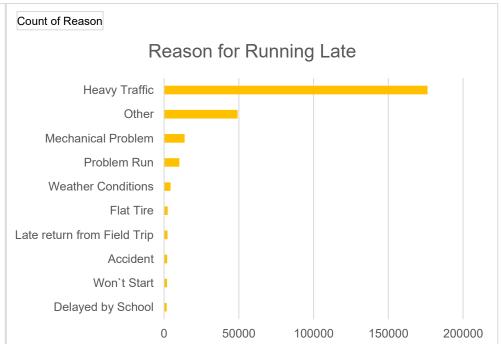
Created uniform formatting theme for colors/fonts

	Change Log
Versio	Details
1	Prepared document for analysis
1.1	Created copy of raw data; named "Raw Data" and "Clean Data".
1.2	Hid Raw data.
1.3	Prepared sheets for each question required for analysis, prepared organizational sheets.
2	Cleaned Data
2.1	Created "Weekday_Occured" column for the day of the week the incident occurred from the "Occurred_On" column with date-time data.
2.2	Created "Buss_Company_Name" from the "Company_Clean" column by filtering and normalizing company names.
2.3	Created "Short_Delay_Est" and "Long_Delay_Est" from the "How_Long_Delayed" column by splitting and removing string type data.
3	Pivot Table 1
3.1	Creased "Reason" sheet using "Reason" and "Breakdown_or_Running_Late" columns.
3.2	Created Pivot Table to count number of events for each reason for each delay type.
3.3	Created Column Chart for Top reasons of bus breakdowns.
3.4	Created Column Chart for Top reasons for buses running late.
4	Pivot Table 2
4.1	Created "Delay Times" sheet and pivot table using "Company_Clean" and Delay Time columns.
4.2	Created Bar chart for top 10 company delays.
4.3	Created pivot table using "Boro" and Delay Time columns.
4.4	Created Bar chart for Boro Delays. Pivot Table 3
5.1	Created "Weekdays" sheet and pivot tables using "Weekday Occured" and "Breakdown or Running Late" columns.
5.2	Created Line Chart for day-of-the-week breakdowns.
5.3	Created Line Chart for day-of-the-week delays.
6	Summaries & Logs
6.1	Wrote Executive Summary and updated logs
7	Formatted sheets
7.1	Hid unnecessary columns from clean data

		What are the	most cor
Count of Reason	Column Labels		
Row Labels	Breakdown	Grand Total	
Delayed by School	•	12	12
Field Trip	•	16	16
Weather Conditions	4	41	41
Problem Run	4	48	48
Heavy Traffic	27	79	279
Accident	29	90	290
Other	167	74	1674
Flat Tire	249	99	2499
Won`t Start	297	70	2970
Mechanical Problem	1039	99	10399
Grand Total	1822	28	18228

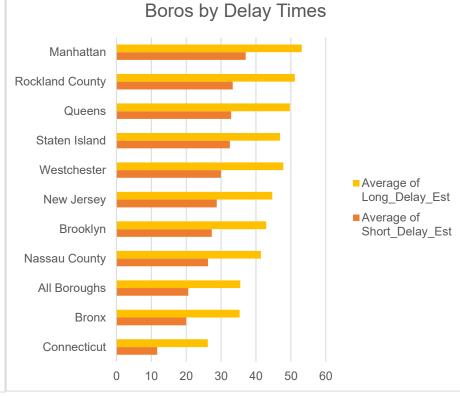
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Count of Reason	Column Labels		
Row Labels	Running Late	Grand Total	
Delayed by School	1737	•	1737
Won`t Start	1932		1932
Accident	2101		2101
Field Trip	2255	i	2255
Flat Tire	2401		2401
Weather Conditions	4318	}	4318
Problem Run	10193	}	10193
Mechanical Problem	13695	,	13695
Other	49135	,	49135
Heavy Traffic	176196		176196
Grand Total	263963		263963



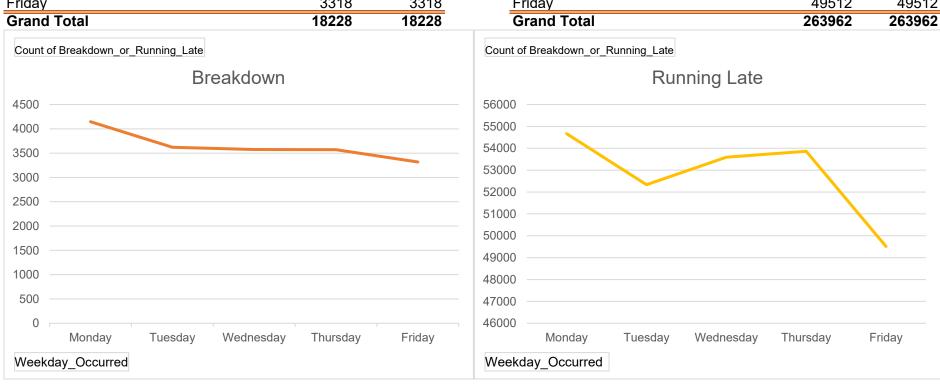


	How do delay time	es vary by bus cor	npany and borough?		
Row Labels	Short_Delay_Est	Long_Delay_Est	Row Labels	Short_Delay_Est Lo	ng_Delay_Est
MAR-CAN TRANSPORT CO. INC (B2192)	45	66	Connecticut	12	26
LORINDA ENTERPRISES, LTD.	45	63	Bronx	20	35
MJT BUS COMPANY, INC	45	60	All Boroughs	21	36
FORTUNA BUS COMPANY	46	60	Nassau County	26	41
IC BUS INC.	46	60	Brooklyn	27	43
LOGAN BUS COMPANY INC.	46	66	New Jersey	29	45
LITTLE RICHIE BUS SERVICE	47	67	Westchester	30	48
PRIDE TRANSPORTATION (SCH AGE)	49	70	Staten Island	33	47
LITTLE LINDA BUS CO.,INC.	52	75	Queens	33	50
SELBY TRANSPORTATION	60	88	County	33	51
Grand Total	48	69	Manhattan	37	53
			Grand Total	29	45





Is there a correlation between specific days of the week and the frequency of breakdowns or delays?					
Breakdown_or_Running_Late	Column Labels		Breakdown_or_Running_Late	Column Labels	
Row Labels	Breakdown	Grand Total	Row Labels	Running Late	Grand Total
Monday	4146	4146	Monday	54667	54667
Tuesday	3619	3619	Tuesday	52332	52332
Wednesday	3573	3573	Wednesday	53589	53589
Thursday	3572	3572	Thursday	53862	53862
Friday	3318	3318	Friday	49512	49512
Grand Total	18228	18228	Grand Total	263962	263962



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,	Other	Tuesday	Westchester	CHILDREN'S TRANS INC. (B2321)	16	30
Heavy Traffic Tuesday Manhattan LEESEL TRANSPORTATION COR 16 30	Heavy Traffic	Tuesday	Manhattan	LEESEL TRANSPORTATION COR	16	30
	Heavy Traffic	Tuesday	Manhattan	LEESEL TRANSPORTATION COR	16	30

Breakdown_or_Running_Late
Running Late
Breakdown
Running Late
Breakdown
Running Late
Running Late
Running Late