Bus Breakdown and Delays DB
Collects data from school bus vendors operating out in the field in real time.
https://data.cityofnewyork.us/Transportation/Bus-Breakdown-and-Delays/ez4e-fazm/about_data
Data Dictionary

Column	Description	Data Type
School_year		varchar(9)
Busbreakdown_ID		varchar(9) Primary Key
Run_Type		varchar(25)
Bus_no		varchar(10)
Route_Number		char(4)
Reason		varchar(25)
Schools_serviced		varchar(10)
Occured_on		datetime
Created_on		datetime
Boro		varchar(20)
Bus_company_name		varchar(25)
How_long_delayed		int
Number_of_students_on_the_bus		int
Has_contractor_notified_schools		varchar(3)
Has_contractor_notified_parents		varchar(3)
Have_You_alerted_OPT		varchar(3)
informed_on		datetime
incident_number		varchar(10)
last_updated_on		datetime
Breakdown_or_running_Late		varchar(12)
School_Age_or_PreK		varchar(10)

The table is not normalized. "Schools_Serviced" includes multiple entries, "How_Long_Delayed" has inconsistent data entries.

Busbreakdo…	Run_Type	Bus_No	Route_Number	Reason	Schools_Serviced	
1905463	Special Ed AM Run	1305	N390	Weather Conditions	03149,03475,03491,03864	(
1288188	Special Ed PM Run	54065	M173	Accident	02799	(
1423856	Special Ed PM Run	5308	K315	Other	22446,22198,22361	(

```
--Imported data from the csv file
SELECT * FROM [dbo].[Bus_Breakdown_and_Delays_20250331];
```

	School_Year	Busbreakdown_ID	Run_Type	Bus_No	Route_Number	Reason	Schools_Serviced
271	2015-2016	1212961	Special Ed AM Run	12567	P659	Heavy Traffic	24083
272	2015-2016	1212962	Special Ed AM Run	7023	M732	Heavy Traffic	03149
273	2015-2016	1212963	Special Ed AM Run	5304	K274	Heavy Traffic	15533,15560,15558,
274	2015-2016	1212964	Special Ed AM Run	74644	X307	Heavy Traffic	10080
275	2015-2016	1212965	Special Ed AM Run	2074	L514	Mechanical Problem	22657
276	2015-2016	1212966	Special Ed AM Run	46155	N758	Mechanical Problem	75485
277	2015-2016	1212967	Special Ed AM Run	21275	M156	Heavy Traffic	01616
278	2015-2016	1212968	General Ed AM R...	2343	K1387	Heavy Traffic	13054,13287

```
--Data isn't normalized and lacks consistancy
SELECT TOP 100 BUSBREAKDOWN_ID, SCHOOLS_SERVICED FROM Bus_Breakdown_and_Delays_20250331
WHERE LEN(SCHOOLS_SERVICED) > 5;
```

▦ Results   ⬚ Messages

	BUSBREAKDOWN_ID	SCHOOLS_SERVICED	How_Long_Delayed
1	1212691	17685,17858	60 MIN
2	1212709	17685,17858	90 MIN
3	1212813	17685,17705	30min
4	1212837	20835, 21724	60 mins
5	1212913	27739 ,27804	20MNS
6	1212917	13008,13508	45min
7	1212935	17705,18694	45min/1hr
8	1212963	15533,15560,15558,	1hr
9	1212968	13054,13287	1hr
10	1213073	13003, 13463, 13669	1HR
11	1213126	15481, 15024	30 MINS
12	1213137	23137, 23396	30 MINS
13	1213190	15879,20485,20470,	45min
14	1213264	21001,21871,21724	30 mins
15	1213324	17689,	45min
16	1213447	17221,17894,17382,17692	1hr
17	1213511	21723,21801	NULL
18	1213576	13067,13669 ,13463 ,13483	2 HOURS
19	1213623	16025, 16534, 16460, 16409	1HR
20	1213628	15879,20485,20470	1hr/1hr 30
21	1213636	19404, 19468, 19661	1HR
22	1213637	17685,17705	45min
23	1213713	20859,20858	30 min
24	1213737	31435,31905	25 min
25	1213779	20685,21911	40 min
26	1213901	18219 18588	30 mins
27	1213931	13282,	45min/1hr
28	1213933	19678 19687	30 mis
29	1213987	17221,17894,17382	45min
30	1213997	32299 32571 32570	30 mins