

Appendix

1. Free Routes

1

SELECT * FROM 'ba882-team8-fall124.mbt_dataset.updated_routes' WHERE fare_class = 'Free'

Press Option+F1 for Accessibility Options.

Query results

SAVE RESULTSEXPLORE DATA

JOB INFORMATIONRESULTSCHARTJSONEXECUTION DETAILSEXECUTION GRAPH

Row	route_id	description	direction_destinations	direction_names	fare_class	long_name	short_name
1	23	Key Bus	['Ashmont Station', 'Ruggles St...	['Outbound', 'Inbound']	Free	Ashmont Station - Ruggles Stat...	23
2	28	Key Bus	['Mattapan Station', 'Ruggles S...	['Outbound', 'Inbound']	Free	Mattapan Station - Ruggles Sta...	28
3	29	Local Bus	['Mattapan Station', 'Jackson S...	['Outbound', 'Inbound']	Free	Mattapan Station - Jackson Sq...	29

2. Top 10 MBTA Train Stations by Area

1

SELECT municipality, COUNT(municipality) AS num FROM 'ba882-team8-fall124.mbt_dataset.updated_stops' GROUP BY municipality ORDER BY num DESC LIMIT 10

Press

Query results

SAVE RESULTS

JOB INFORMATIONRESULTSCHARTJSONEXECUTION DETAILSEXECUTION GRAPH

Row	municipality	num
1	Boston	290
2	Brookline	35
3	Cambridge	25
4	Newton	21
5	Quincy	16
6	Beverly	15
7	Somerville	15
8	Malden	11
9	Chelsea	11
10	Medford	10

3. Stops with wheelchair accessibility

1

SELECT wheelchair_boarding, COUNT(wheelchair_boarding) AS num, ROUND((COUNT(wheelchair_boarding) / SUM(COUNT(wheelchair_boarding)) OVER ()) * 100, 2) AS percentage FROM 'ba882-team8-fall124.mbt_dataset.updated_stops' GROUP BY wheelchair_boarding

Press Option+F1 for Accessibility

Query results

SAVE RESULTSEXPLORE DATA

JOB INFORMATIONRESULTSCHARTJSONEXECUTION DETAILSEXECUTION GRAPH

Row	wheelchair_boarding	num	percentage
1	2	139	19.39
2	1	578	80.61

4. Top 10 Most Frequented Routes with Headsigns

1

SELECT route_id, headsign, COUNT(*) AS num FROM `ba882-team8-fall124.mbtadata.updated_trips` GROUP BY route_id, headsign ORDER BY num DESC LIMIT 10

Pre

Query results

SAVE RESULTS

JOB INFORMATION

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EXECUTION GRAPH

Row	route_id	headsign	num
1	749	Nubian	1339
2	749	Downtown	1339
3	741	South Station	1333
4	741	Logan Airport	1317
5	Green-B	Boston College	1307
6	Green-B	Government Center	1296
7	Green-E	Medford/Tufts	1296
8	Orange	Oak Grove	1238
9	Green-E	Heath Street	1210
10	Green-D	Riverside	1192

5. Top 10 Stops with the Most Vehicle Pass-Throughs

1

SELECT s.name, COUNT(*) AS num FROM `ba882-team8-fall124.mbtadata.updated_vehicles` AS v LEFT JOIN `ba882-team8-fall124.mbtadata.updated_stops` AS s ON v.stop_id = s.stop_id WHERE s.name IS NOT NULL GROUP BY s.name ORDER BY num DESC LIMIT 10

Press Option+F1 for Accessibility

Query results

SAVE RESULTS

EXPLORE DATA

JOB INFORMATION

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EXECUTION DETAILS

EXECUTION GRAPH

Row	name	num
1	Harvard	37
2	Sullivan Square	37
3	Ruggles	35
4	Ashmont	34
5	Forest Hills	32
6	Wonderland	32
7	Park Street	31
8	Lechmere	30
9	Nubian	29
10	JFK/UMass	26