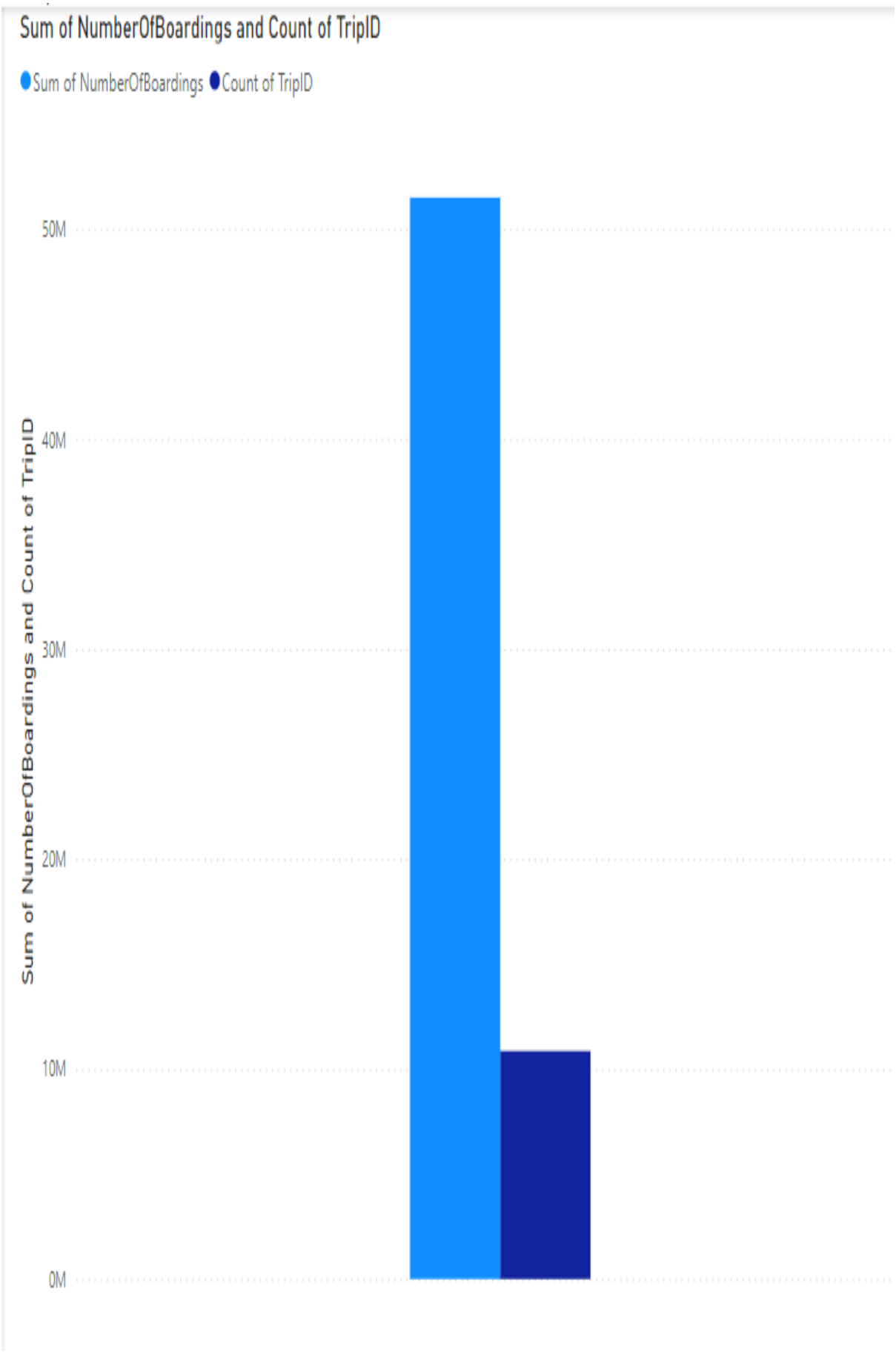
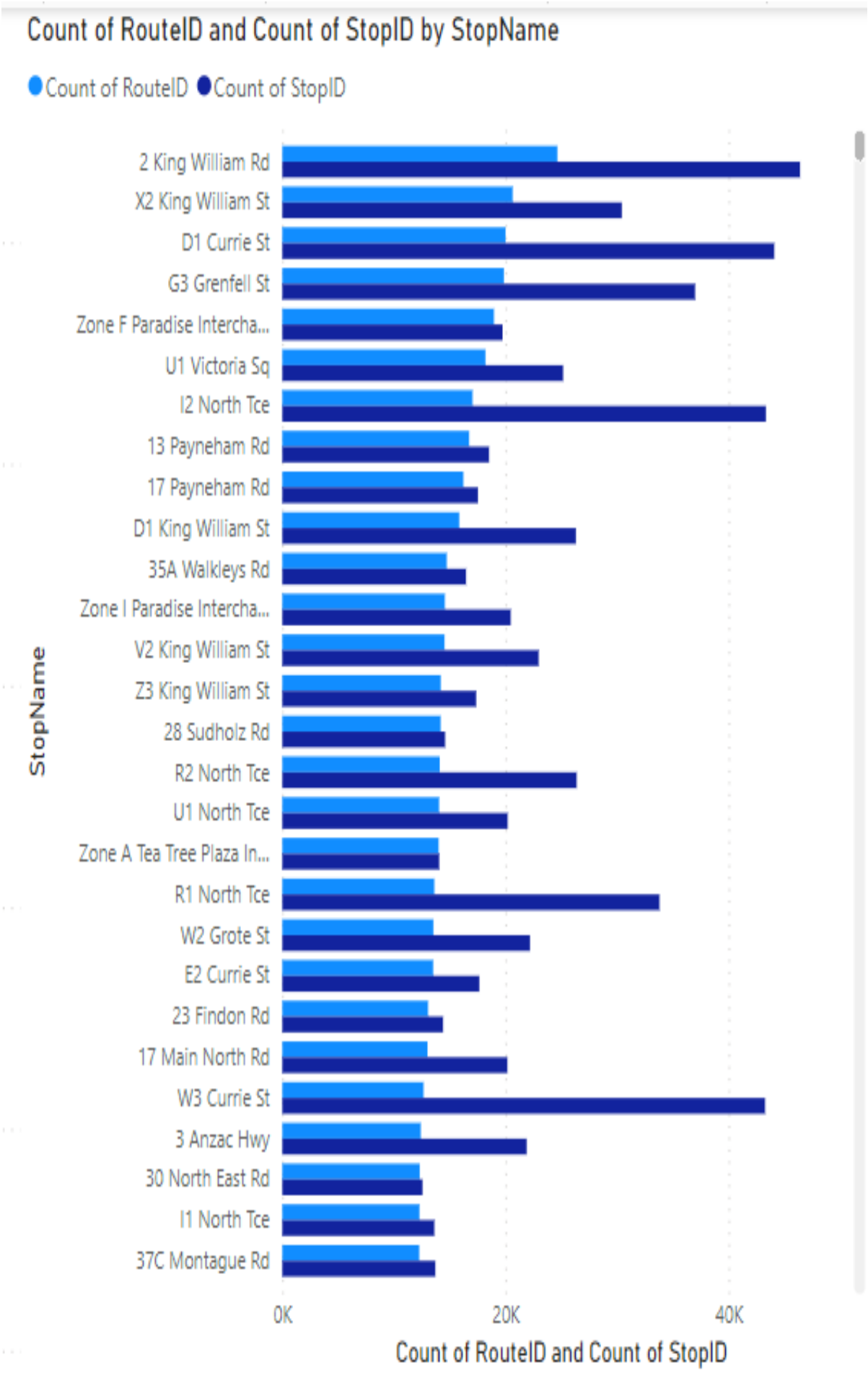
ENHANCING PUBLIC TRANSPORTATION WITH DATA ANALYSIS

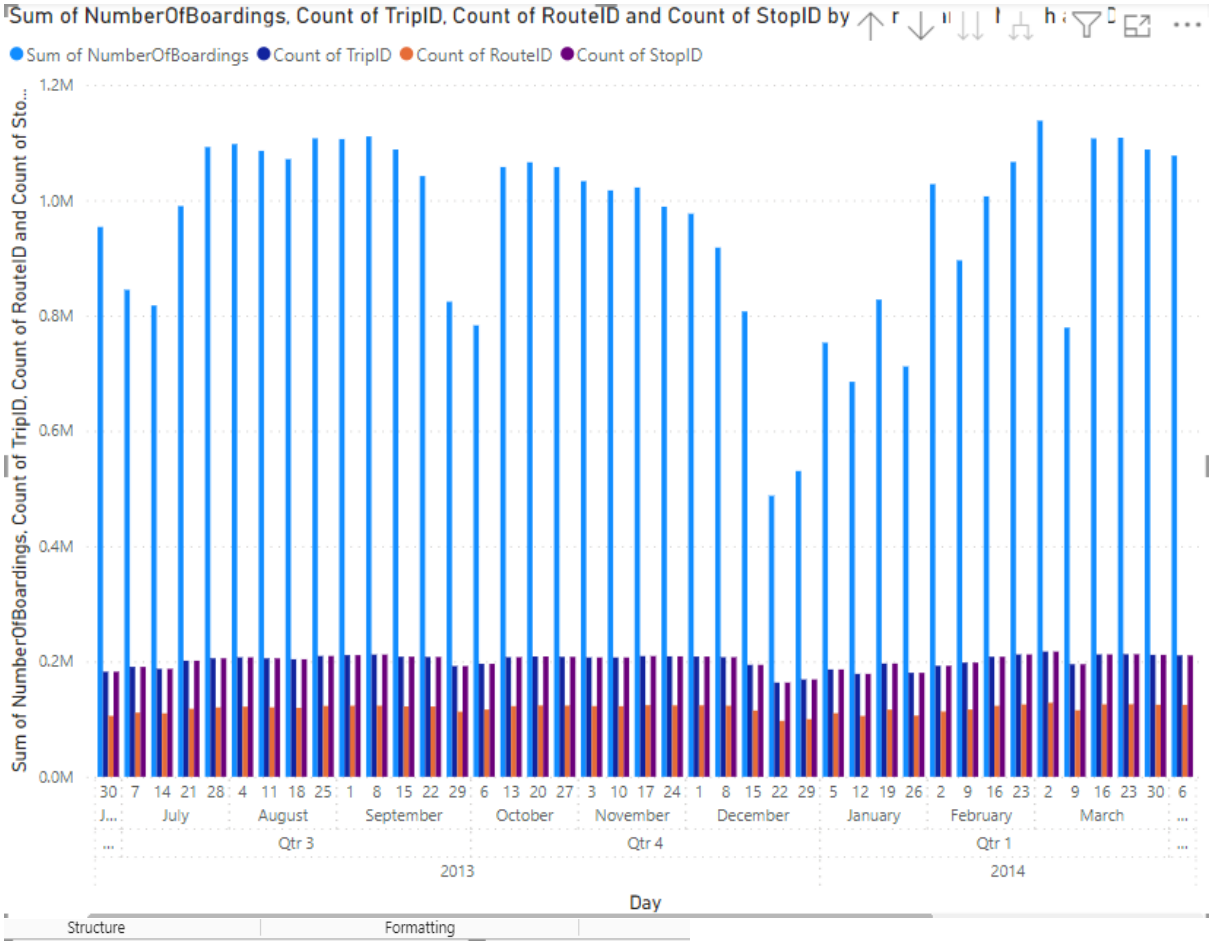
Introduction

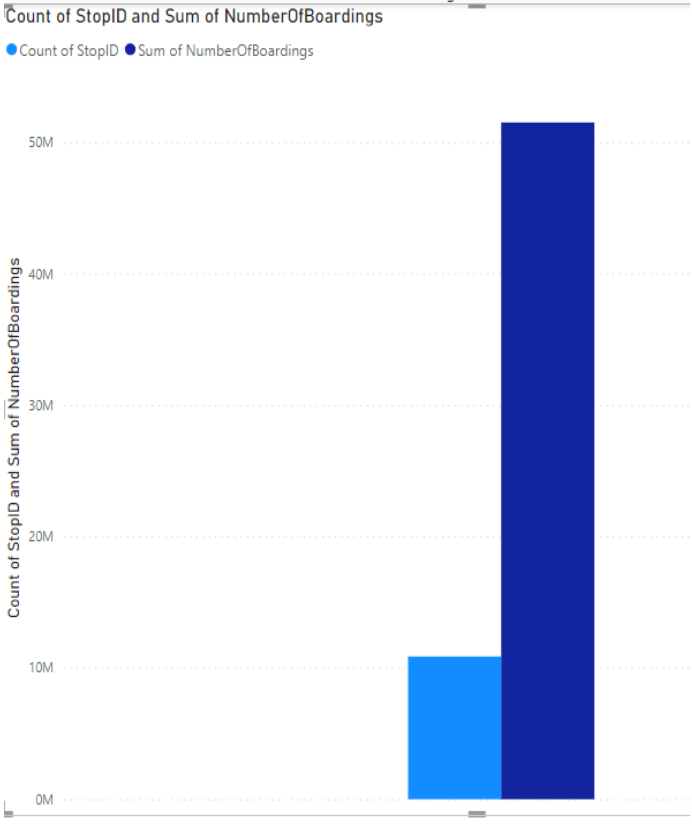
The goal of this project is to leverage public transportation data to evaluate service efficiency, on-time performance, and passenger feedback, ultimately improving the overall public transportation experience. This document outlines the design thinking process for the project, including analysis objectives, data collection methods, visualization strategies, and code integration.

79	65.5k	100	996	10.0k	18.7k	30Jun13 6Jul14	1
23631		100		14156	181 Cross Rd	2013-06-30 00:00:00	1
23631		100		14144	177 Cross Rd	2013-06-30 00:00:00	1
23632		100		14132	175 Cross Rd	2013-06-30 00:00:00	1
23633		100		12266	Zone A Arndale Interchange	2013-06-30 00:00:00	2
23633		100		14147	178 Cross Rd	2013-06-30 00:00:00	1
23634		100		13907	9A Marion Rd	2013-06-30 00:00:00	1
23634		100		14132	175 Cross Rd	2013-06-30 00:00:00	1
23634		100		13335	9A Holbrooks Rd	2013-06-30 00:00:00	1
23634		100		13875	9 Marion Rd	2013-06-30 00:00:00	1
23634		100		13045	206 Holbrooks Rd	2013-06-30 00:00:00	1
23635		100		13335	9A Holbrooks Rd	2013-06-30 00:00:00	1
23635		100		13383	8A Marion Rd	2013-06-30 00:00:00	1
23635		100		13586	8D Marion Rd	2013-06-30 00:00:00	2
23635		100		12726	23 Findon Rd	2013-06-30 00:00:00	1


Sum of NumberOfBoardings and Count of TripID
Sum of NumberOfBoardings
Count of TripID
50M
40M
30M
20M
10M
0M
Sum of NumberOfBoardings and Count of TripID


Count of RouteID and Count of StopID by StopName
Count of RouteID
Count of StopID
2 King William Rd
X2 King William St
D1 Currie St
G3 Grenfell St
Zone F Paradise Intercha...
U1 Victoria Sq
I2 North Tce
13 Payneham Rd
17 Payneham Rd
D1 King William St
35A Walkleys Rd
Zone I Paradise Intercha...
V2 King William St
Z3 King William St
28 Sudholz Rd
R2 North Tce
U1 North Tce
Zone A Tea Tree Plaza In...
R1 North Tce
W2 Grote St
E2 Currie St
23 Findon Rd
17 Main North Rd
W3 Currie St
3 Anzac Hwy
30 North East Rd
I1 North Tce
37C Montague Rd
StopName
0K
20K
40K
Count of RouteID and Count of StopID


Sum of NumberOfBoardings, Count of TripID, Count of RouteID and Count of StopID by
Sum of NumberOfBoardings
Count of TripID
Count of RouteID
Count of StopID
Sum of NumberOfBoardings, Count of TripID, Count of RouteID and Count of Sto...
1.2M
1.0M
0.8M
0.6M
0.4M
0.2M
0.0M
30 7 14 21 28 4 11 18 25 1 8 15 22 29 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 2 9 16 23 2 9 16 23 30 6
J... July August September October November December January February March ...
... Qtr 3 Qtr 4 Qtr 1 ...
2013 2014
Day


Structure
Formatting
Count of StopID and Sum of NumberOfBoardings
Count of StopID
Sum of NumberOfBoardings
Count of StopID and Sum of NumberOfBoardings
50M
40M
30M
20M
10M
0M