1. Feasibility Analysis:
2. Yes, we have enough datasets from the links provided to identify the key performance indicators to improve business, education, lifestyle, and safety of the Halifax region. More datasets for lifestyle and business would have been better for determining the performance indicators.
3. *List of Datasets*

*Business*

1. **Name:** NavaScotia Business Inc. Export Development and Investment Attraction activity

**Url:** <https://data.novascotia.ca/Business-and-Industry/Nova-Scotia-Business-Inc-Export-Development-and-In/6aac-8xtn>

**Reason**: This dataset helps to understand multiple business corporations for development and investment for business attractivity.

1. **Name**: Nova Scotia Co-operatives dataset

**Url**: <https://data.novascotia.ca/Business-and-Industry/Nova-Scotia-Co-operatives/k29k-n2db>

**Reason**: This dataset helps to understand different coops categorized to profit and non-profit organizations that help for the development of the business.

1. **Name**: Nova Scotia Business Inc. Film and Television Production Incentive Fund Activity

**Url:** <https://data.novascotia.ca/Business-and-Industry/Nova-Scotia-Business-Inc-Film-and-Television-Produ/upw3-yx9z>

**Reason**: This dataset helps to understand multiple film organizations in a year making business.

1. **Name**: Business Establishments 2010-2011 dataset

**Url**: [https://data.novascotia.ca/Business-and-Industry/-ARCHIVED-Business-Establishments- 2010-2011/wa8g-ji9a](https://data.novascotia.ca/Business-and-Industry/-ARCHIVED-Business-Establishments-2010-2011/wa8g-ji9a)

**Reason**: This dataset helps to understand different types of industries and their sizes in a specific year that can provide information of business developments.

1. **Name**: Nova Scotia Visitor Exit Survey, Tourism Regions Visited, 2010, 2015 and 2017

**Url:** <https://data.novascotia.ca/Business-and-Industry/Nova-Scotia-Visitor-Exit-Survey-Tourism-Regions-Vi/e4rq-n5mz>

**Reason**: This dataset helps to understand the percentage of visitors visiting different regions.

*Education*

1. **Name**: Nova Scotia Public School Enrolment by Board and School

**Url:** <https://data.novascotia.ca/Education-Primary-to-Grade-12/Nova-Scotia-Public-School-Enrolment-by-Board-and-S/cjnf-ywvt/data>

**Reason:** This dataset provides different boards and schools present with their board and school code in a year.

1. **Name**: Schools Offering the Pre-primary Program

**Url:** <https://data.novascotia.ca/Education-Early-Childhood/Schools-Offering-the-Pre-primary-Program/2k3n-wed5/data>

**Reason:** This dataset provides information on different pre-primary schools by area in Nova Scotia province.

1. **Name**: SchoolsPlus Sites, including Hub sites and schools by Hub

**Url:** <https://data.novascotia.ca/Education-Primary-to-Grade-12/SchoolsPlus-Sites-including-Hub-sites-and-schools-/y69u-3nas/data>

**Reason:** This dataset provides information about pre-primary schools that have hub sites present under different boards of education.

1. **Name**: Schools with French Programs

**Url:** <https://data.novascotia.ca/Education-Primary-to-Grade-12/Schools-with-French-Programs/kdgs-3rvd>

**Reason:** This dataset provides information about schools that offers French programs.

1. **Name**: Early Childhood Education Training Institutions

**Url:** <https://data.novascotia.ca/Education-Early-Childhood/Early-Childhood-Education-Training-Institutions/5zyd-q83j>

**Reason**: This dataset helps to find different training institutions providing early education degrees and diplomas.

1. **Name**: Graduation Rates

**Url:** <https://data.novascotia.ca/Education-Primary-to-Grade-12/Graduation-Rates/fqau-nfyv> **Reason**: This dataset provides a number of graduating students and graduation rates in different years.

*Safety*

1. **Name**: Crime

**Url:** <http://catalogue-hrm.opendata.arcgis.com/datasets/f6921c5b12e64d17b5cd173cafb23677_0>

**Reason**: This dataset provides different types of crimes at different locations in a year.

1. **Name**: Crime Statistics – Crime Severity Index

**Url:** <https://data.novascotia.ca/Crime-and-Justice/Crime-Statistics-Crime-Severity-Index/w64p-5ue3>

**Reason**: This dataset provides a total crime severity index in different areas in a year.

1. **Name**: Fire Response Zones

**Url:** <http://catalogue-hrm.opendata.arcgis.com/datasets/307147fe63ee49eeacaf980eed91e9a9_0>

**Reason**: This dataset provides different fire response zones and fire stations that help for safety.

1. **Name**: Fire Protection Area Rates

**Url:** <http://catalogue-hrm.opendata.arcgis.com/datasets/f92c17cd33244b018a3c83d430ee8c36_0/data>

**Reason**: This dataset provides information on different fire protection area rates.

*Lifestyle*

1. **Name**: Street Name Routes

**Url:** <http://catalogue-hrm.opendata.arcgis.com/datasets/6d93ecf9e2a348b891e1d5f21c436fe1_0>

**Reason**: This dataset provides all the street name routes in the Halifax regional municipality.

1. **Name**: Bus Routes

**Url:** <http://catalogue-hrm.opendata.arcgis.com/datasets/e3b2bfdd61154176822c00602504c950_0>

**Reason**: This dataset provides all the bus routes of the Halifax bus system that gives information on the lifestyle of the Halifax.

1. **Name**: Residential Parking Zones

**Url:** <http://catalogue-hrm.opendata.arcgis.com/datasets/dd54f945f7584e97878755efff9a2f23_0>

**Reason**: This dataset provides information about the distribution of parking zones across Halifax.

1. **Name**: Building Details

**Url:** <http://catalogue-hrm.opendata.arcgis.com/datasets/62516c1825de46cbb18178205ffcca18_0>

**Reason**: This dataset helps to understand the list of buildings and the related information including civic addressing, building permit, fire inspection, and asset management that helps for lifestyle.

1. **Name**: Building Symbols

**Url:** <http://catalogue-hrm.opendata.arcgis.com/datasets/4d44051e006b457580ab4d86fa30c949_0>

**Reason**: This dataset provides points that represent different uses within a building for the purpose of mapping buildings where business symbols are required.

1. *Tools Used:*

I have used “Microsoft Excel” for extracting or collecting the datasets that are downloaded in the CSV format.

1. *Fields/attributes to identify KPIs*

*Business*

I identify dataset NavaScotia Business Inc. Export Development and Investment Attraction activity (D1), Nova Scotia Co-operatives dataset (D2), Business Establishments 2010-2011 dataset (D3), Nova Scotia Business Inc. Film and Television Production Incentive Fund Activity (D4), Nova Scotia Visitor Exit Survey, Tourism Regions Visited, 2010, 2015 and 2017 (D5) useful.

Now, after exploring the data in D1, I found 11 fields, but I just need only 4 fields. I consider D1 with 4 fields as my entity set “ **Business Sectors**” that has 4 attributes.

After exploring D2, I found 9 fields, but I just need 4 fields. I create one entity set “**Cooperatives**” from the dataset that has 4 attributes.

After exploring D3, I found 9 fields, but I just need 5 fields. I create one entity set from the dataset “**Business Organizations**” that has 5 attributes.

After exploring D4, I found 5 fields, but I just need 4 fields. I create one entity set from the dataset “**Production Companies**” that has 4 attributes.

After exploring D5, I found 4 fields and all 4 entities are important. I create one entity set from the dataset “**Tourism**” that has 4 attributes.

*Education*

I identify Nova Scotia Public School Enrolment by Board and School dataset (D1), Schools Offering the Pre-primary Program dataset (D2), SchoolsPlus Sites, including Hub sites and schools by Hub dataset (D3), Schools with French Programs dataset (D4), Early Childhood Education Training Institutions dataset (D5), Graduation Rates dataset (D6) useful.

Now, after exploring the data in D1, I found 6 fields, but I just need only 4 fields. I consider D1 with 4 fields as my entity set “**Board**” that has 4 attributes.

After exploring D2, I found 8 fields, but I just need 5 fields. I create one entity set “**Pre primary**” from the dataset that has 5 attributes.

After exploring D3, I found 7 fields, but I just need 4 fields. I create one entity set from the dataset “**Schools Plus Sites**” that has 4 attributes.

After exploring D4, I found 21 fields, but I just need 4 fields. I create one entity set from the dataset “**French Schools**” that has 4 attributes.

After exploring D5, I found 8 fields and all 4 entities are important. I create one entity set from the dataset “**Early Childhood**” that has 4 attributes.

After exploring D6, I found 5 fields and all 5 entities are important. I create one entity set from the dataset “**School Graduation”** hat has 5 attributes.

*Safety*

I identify Crime dataset (D1), Crime Statistics – Crime Severity Index dataset (D2), Fire Response Zones dataset (D3), Fire Protection Area Rates dataset (D4) useful.

Now, after exploring the data in D1, I found 8 fields, but I just need only 1 field and created a surrogate key for generating the zone id. I consider D1 with 2 fields as my entity set “**Zone**” that has 2 attributes.

Using D1, I create one more entity set “**Crime**” from the dataset that has 8 attributes. I consider crime as my entity set that has 5 attributes.

After exploring D2, I found 9 fields, but I just need 4 fields. I create one entity set from the dataset “**Crime Severity**” that has 4 attributes.

After exploring D3, I found 11 fields, but I just need 5 fields. I create one entity set from the dataset “**Fire Zone**” that has 5 attributes.

After exploring D5, I found 11 , but I just need 4 fields. I create one entity set from the dataset “**Fire Protection Area**” that has 4 attributes.

*Lifestyle*

I identify Street Name Routes dataset (D1), Bus Routes dataset (D2), Residential Parking Zones dataset (D3), Building Details dataset (D4), Building Details dataset (D5) useful.

Now, after exploring the data in D1, I found 11 fields, but I just need only 4 fields. I consider D1 with 4 fields as my entity set “**Street Routes**” that has 4 attributes.

After exploring D2, I found 10 fields, but I just need 5 fields. I used 4 attributes from the D2 dataset and used Object id from the D1 dataset and created one entity set “**Bus Routes**” from the dataset that has 5 attributes.

After exploring D3, I found 10 fields, but I just need 4 fields. I create one I used 3 attributes from the D2 dataset and used Object id from the D1 dataset and created one entity set from the dataset “**Parking Zones**” that has 4 attributes.

After exploring D4, I found 36 fields, but I just need 4 fields. I create one entity set from the dataset “**Building details**” that has 4 attributes.

After exploring D5, I found 12 fields, but I just need 4 fields. I create one entity set from the dataset “**Symbols**” that has 4 attributes.

1. *Strong and Weak Entities*

*Business*

Strong Entities– Business Sectors, Cooperatives, Production Companies, Business Organizations

Weak Entities – Tourism

*Education*

Strong Entities – Board, Pre Primary, French Schools, School graduation, Early Childhood

Weak Entities – School Plus Sites

*Safety*

Strong Entities – Zone, Crime, Fire Zone, Fire Protection Area

Weak Entities – Crime Severity

*Lifestyle*

Strong Entities – Street Routes, Bus Routes, Building Details, Parking Zones, Building Symbols

1. Data Modelling:

*Initial Design:*

1. Cardinality Identified – One to Many and Many to many relationships.
2. *Rough Sketch: Business*

A close up of text on a white background

Description automatically generated

*Education*A picture containing text, whiteboard

Description automatically generated

*Lifestyle*

A picture containing text, whiteboard

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*Safety*

A picture containing text

Description automatically generated

1. *Extended ERD*

*Business*

**![A close up of a map

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNhdHlhIEt1bWFyIEl0ZWtlbGEAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzE1AACSkgACAAAAAzE1AADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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*Education*

**![A close up of a map

Description automatically 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*Safety*

**![A close up of a map

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*Lifestyle*

**![A close up of a map

Description automatically 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*Final Design*

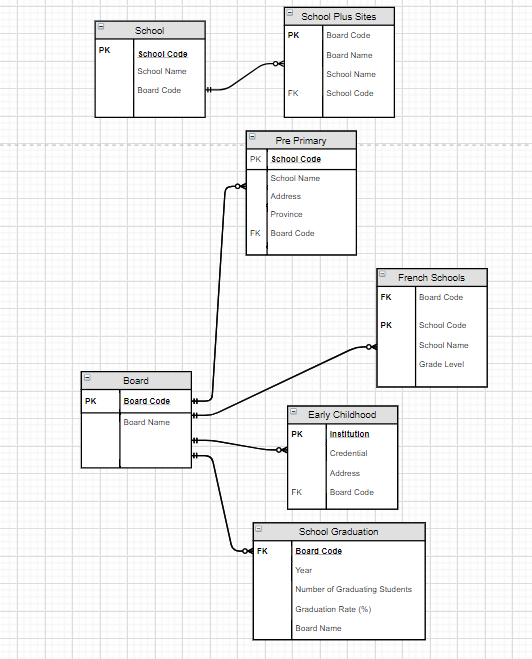
1. No, the initial design have one instance of fan trap problem.

The fan trap problem that are recognized are shown below

1. One to Many relationships from board to pre primary and pre primary to school plus sites.

Solution:

Created a new entity school with School Code as the foreign Key.



1. DDL & DML:

I have created database “halifaxinfo” and created tables required and populated the tables as shown in the figure 1.

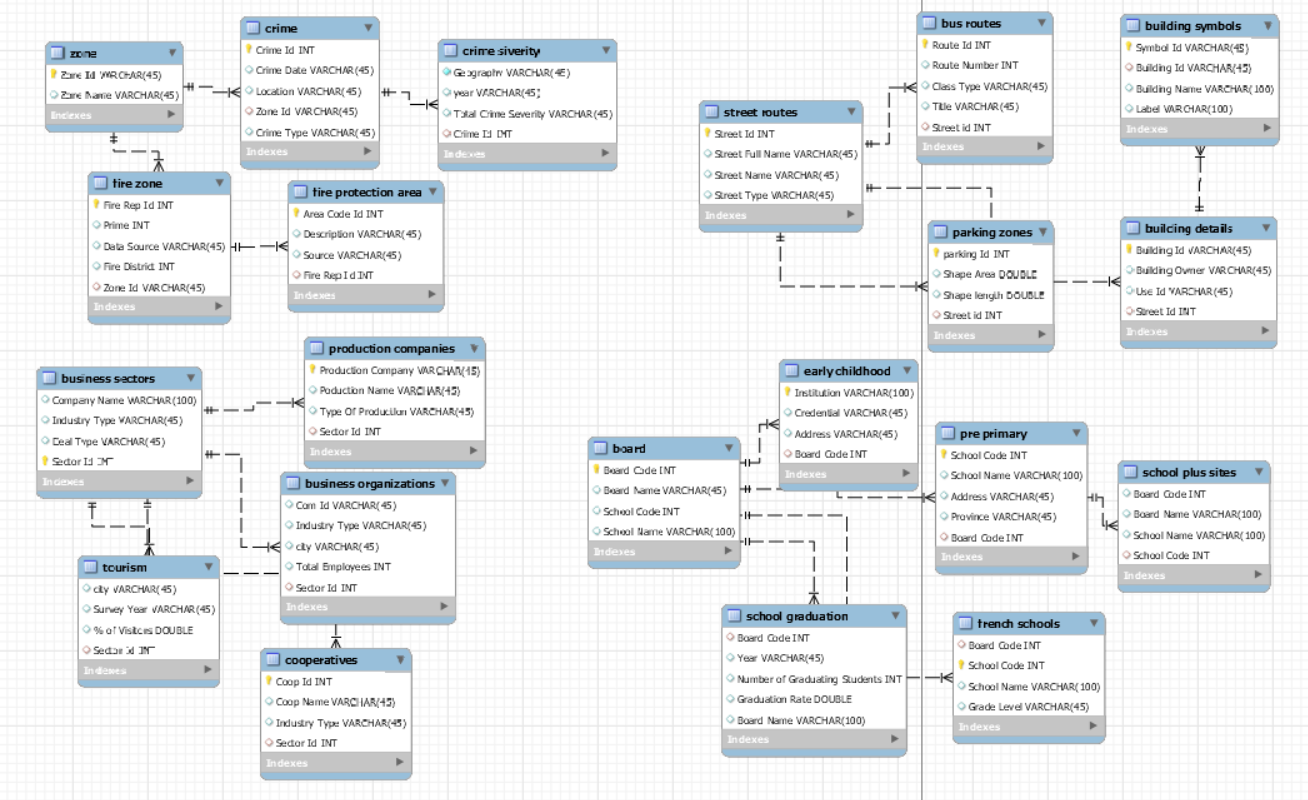


Figure 1: Extended ERD for the selected databases.

For Testing Purpose:

• Which business organization or type of business organization has highest employees?

SQL Query:

Ans: select `Industry Type` as `Type of Organization`, sum(`Total Employees`) as `highest employees`

from `business organizations`

group by `Type of organization`

order by `highest employees` desc limit 1;

* Which Region in Halifax has more schools?

SQL Query:

Ans: select `Address` as `region`, count(`School Name`) as `total Number of Schools`

from `pre primary`

group by `Address` limit 1;

* Which Street in Halifax Region has more number of reported crimes?

SQL Query:

Ans: select `Location` as `Street Name`, count(\*) as `total Number of Crimes`

from `crime`

group by `Location` limit 1;

1. Normalization

I have found two tables which are to be normalized and created a new database “HalifaxInfocopy” and populated tables as shown in the below figure 2

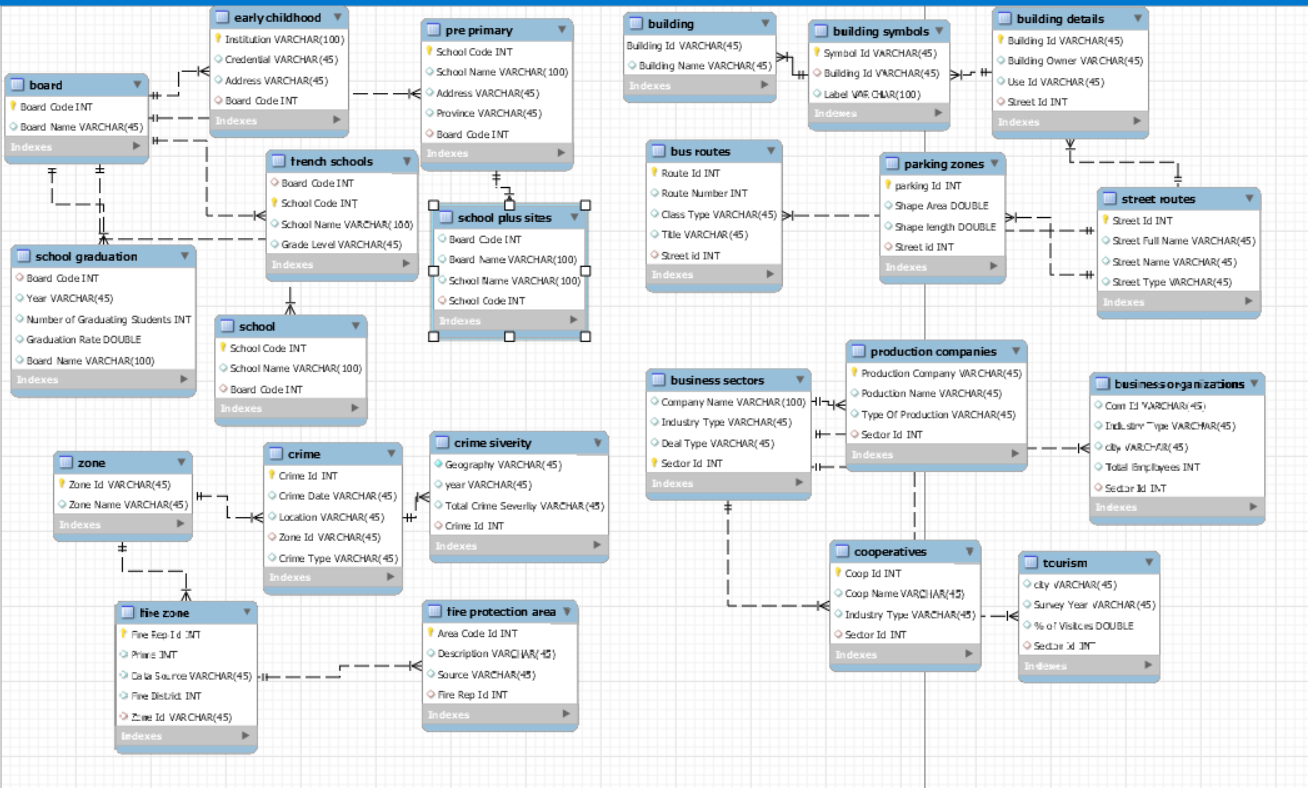


Figure 2: Extended ERD for the normalized tables.

Database “Halifaxinfo” have two tables, which are in 1NF

Every Attribute in the entity is single valued. So, it is in 1NF.

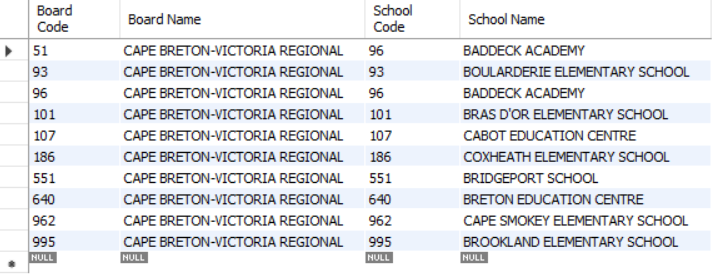
Board Name is dependent on Board Code.

School Name is dependent on School Code and not dependent on Board Code which is a Partial dependency.

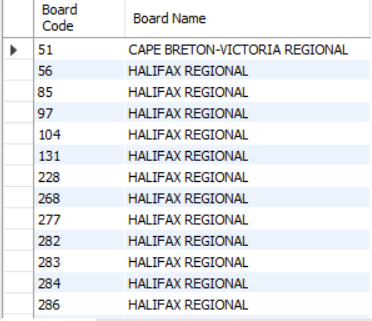
So, I have created a new entity school and kept Board Code as the foreign key.

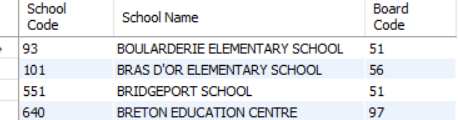
There are no transitive dependencies. So, it is in 3NF.

1. Board Table:



Converted Board Table, converting into 2NF: After Normalization





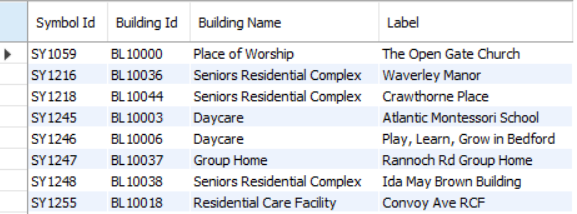
1. Building Symbols Table:

Every Attribute in the entity is single valued. So, it is in 1NF.

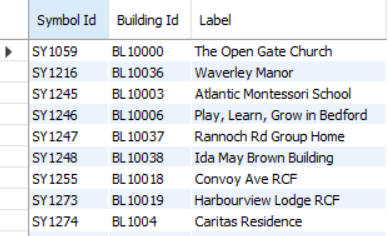
Building Name is dependent on Building Id and not on Symbol Id which is a partial dependency.

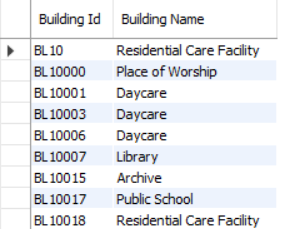
So, I have created a new entity building and kept Building Id and Building Name as the attributes.

There are no transitive dependencies. So, it is in 3NF.



Converted Building Symbols Table, converting into 2NF: After Normalization





References:

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[3] "Data Modeling Issue - Fan Trap [Gerardnico - The Data Blog]", *Gerardnico.com*, 2020. [Online]. Available: https://gerardnico.com/data/modeling/fan\_trap. [Accessed: 10- Feb- 2020].