

PROBLEM-1: REPORT

Problem-1- HYPOTHETICAL SCENARIO

I obtained information on various collected data by visiting:

<https://resourcescovid19canada.hub.arcgis.com/search>

I chose the B.C. Covid-19 Collection dataset

Problem Statement: B.C. Covid-19 Collection dataset helps finding the Covid-19 collection centre through the location, availability and also gives us the information regarding special conditions.

STEP-1:

Cleaning and filtration of the dataset. (refer: Covid Collection csv file)

1. In Specific Location column, there were blanks which I replaced by “UNKNOWN” values. Because the values could be anything.
2. Similarly, in Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday hours column I added “UNKNOWN” values instead of blanks.

STEP-2

1. I checked whether the given table is in normalized form or not. Inorder to do so , we first check whether the table is in 1NF form or not.

1NF describes tabular format in which:

- All key attributes are defined
- There are no repeating groups in the table.
- All attributes are dependent on the primary key.

Check the attached excel file for the main table to verify the above point.

Below are the attributes (Object ID, Health_Authority, Community_Collection_Center_Name, Address, Specific_Location, City_Town, Monday_Hours, Tuesday_hours, Wednesday_hours, Thursday_hours, Friday_hours, Saturday_hours, Sunday_hours, Days, Special_criteria_consideration, Website, Phone, Global_id, Status, Public_Access, Edit_Date, Object, Accept_Children)

1.

A	B	C	D	E	F	G
X	Y	OBJECTID	HA_ID	Health_Authority	Community_Collection_Center_Nam	Address

2.

G	H
Address	Specific_Location

3.

I	J	K	L	M
City_Town	Monday_Hours	Tuesday_Hours	Wednesday_Hours	Thursday_hours

4.

N	O	P	Q
Friday_Hours	Saturday_Hours	Sunday_Hours	Days

5.

R
Special_Criteria_Consideratio

6.

S	T
Phone	Website

7.

U	V	W	X	Y	Z
GlobalID	Status	Public_Access	Referral_Required	EditDate	Object_AcceptChildren

- Then I realized, that the weeks column i.e. Monday_Hours, Tuesday_hours, Wednesday_hours, Thursday_hours, Friday_hours, Saturday_hours, Sunday_hours had same values which was resulting in data reduncy. So to avoid that I denormalized those columns to one column i.e. Timimngs (Mon-Sun). This column will specify all the same values from Monday to Sunday in just 1 column.

Before:

Monday_Hours						
J	K	L	M	N	O	P
Monday_Hours	Tuesday_Hours	Wednesday_Hours	Thursday_hours	Friday_Hours	Saturday_Hours	Sunday_Hours
10:00 - 21:00	10:00 - 21:00	10:00 - 21:00	10:00 - 21:00	10:00 - 21:00	10:00 - 21:00	10:00 - 21:00
11:30 - 16:00; closed for lunch	11:30 - 16:00; closed for lunch	11:30 - 16:00; closed for lunch	11:30 - 16:00; closed for lunch	11:30 - 16:00; closed for lunch	12:00 - 12:30	
08:30 - 16:00	08:30 - 16:00	08:30 - 16:00	08:30 - 16:00	08:30 - 16:00		
08:00 - 18:00	08:00 - 18:00	08:00 - 18:00	08:00 - 18:00	08:00 - 18:00	08:00 - 18:00	08:00 - 18:00
10:30 - 16:45	10:30 - 16:45	10:30 - 16:45	10:30 - 16:45	10:30 - 16:45	10:30 - 16:45	10:30 - 16:45
09:00 - 20:00	09:00 - 20:00	09:00 - 20:00	09:00 - 20:00	09:00 - 20:00	09:00 - 17:00	09:00 - 17:00
08:30 - 15:30	08:30 - 15:30	08:30 - 15:30	08:30 - 15:30	08:30 - 15:30	08:30 - 15:30	08:30 - 15:30
09:00 - 13:00	09:00 - 13:00	09:00 - 13:00	09:00 - 13:00	09:00 - 13:00		
09:00 - 16:00	09:00 - 16:00	09:00 - 16:00	09:00 - 16:00	09:00 - 16:00	09:00 - 16:00	09:00 - 16:00
By appointment	By appointment	By appointment	By appointment	By appointment	By appointment	By appointment
By appointment	By appointment	By appointment	By appointment	By appointment	By appointment	By appointment
16:30 - 20:30	16:30 - 20:30	16:30 - 20:30	16:30 - 20:30	16:30 - 20:30	16:30 - 20:30	16:30 - 20:30
By appointment	By appointment	By appointment	By appointment	By appointment	By appointment	By appointment
15:00 - 16:00	15:00 - 16:00	15:00 - 16:00	15:00 - 16:00	15:00 - 16:00	15:00 - 16:00	15:00 - 16:00
By appointment	By appointment	By appointment	By appointment	By appointment		
By appointment	By appointment	By appointment	By appointment	By appointment	By appointment	By appointment
By appointment	By appointment	By appointment	By appointment	By appointment	By appointment	By appointment
By appointment	By appointment	By appointment	By appointment	By appointment	By appointment	By appointment
By appointment	By appointment	By appointment	By appointment	By appointment	By appointment	By appointment
By appointment	By appointment	By appointment	By appointment	By appointment	No appointments available	No appointments available

After:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	GlobalID	X	Y	OBJECTID	HA_ID	Health_Au	Communi	Address	Specific_L	City_Town	Timings(Mon-Sun)	Days	Special_Ci	Phone	Website	Status	Public_Ac	Ref
2	{067C23A6	-122.842	49.17785	1	2	FHA	Fraser	Surrey Wfr Unit G2-96	UNKNOWN	Surrey	10:00 - 21:00	7 Days	Testing or	UNKNOWN	UNKNOWN	Close	Yes	No
3	{40434181	-122.599	49.21815	2	2	FHA	Fraser	Ridge Me121-11900	Located at	Maple Ridge	11:30 - 16:00; closed for lunch 12:00 - 12:30	Mon - Fri	Appointm	Central In	https://fr	Open	Yes	Yes
4	{EC39F27E	-121.965	49.16613	3	2	FHA	Fraser	Chilliwack 45470 Me1	UNKNOWN	Chilliwack	08:30 - 16:00	Mon - Fri	Appointm	Central In	UNKNOWN	Open	Yes	Yes
5	{ABBA88B	-122.612	49.09543	4	2	FHA	Fraser	Langley M22051 Fras	Enter via E	Langley	08:00 - 18:00	7 Days	Call to box	604-539-4	UNKNOWN	Close	Yes	No

K	
Timings(Mon-Sun)	Days
10:00 - 21:00	7 D
11:30 - 16:00; closed for lunch 12:00 - 12:30	Mon - Fri
08:30 - 16:00	Mon - Fri
08:00 - 18:00	7 D
10:30 - 16:45	7 d
09:00 - 20:00	7 D
08:30 - 15:30	7 d
09:00 - 13:00	Mc
09:00 - 16:00	7 D
By appointment	Ho
By appointment	Ho
16:30 - 20:30	7 D
By appointment	Ho
15:00 - 16:00	Ho
By appointment	Mc
By appointment	Ho
By appointment	Ho
By appointment	Ho
By appointment	Mc

3. Checking whether the table is in 2NF form or not. Inorder to do so, Partial Dependency should be eliminated.

- The 2 key attribute(Primary Key) in the table is Global_Id and HA_id.
- Partial Dependency occurs when 1 primary key determines some other attribute/attributes.
- So in our case,
 1. **Global_Id** is associated with (Community_Collection_Center_Name, Address, Specific_Location, City_Town, Timings (Mon-Sun) Days, Special_consideration, Website, Phone, Global_id, Status, Public_Access, Edit_Date, Object, Accept_Children)
 2. **HA_id** is associated with (Health_Authority).

Below shows the 2 table: (Also check the attached excel file with naming conventions: Health_Authority and CovidCollection for better understanding)

Table-1: Health_Authority (HA_id = Primary Key)

A7					4 VIHA
	A	B	C		
1	HA_ID	Health_Authority			
2	2 FHA	Fraser			
3	1 IHA	Interior			
4	5 NHA	Northern			
5	3 VCHA	Vancouver Coastal			
6	0 PHSA	Provincial Health Services			
7	4 VIHA	Vancouver Island			
8					

Table-2: Covid Collection (Global_id = Primary Key)

	A	B	C	D	E	F	G
1	GlobalID	X	Y	OBJECTID	HA_ID	Health_Authority	Community_Collection_Center_Nam
2	{067C23AB-FB39-4847-A045-C8B520720B3C}	-122.8424112	49.17785198	1	2 FHA	Fraser	Surrey Whalley UPCC
3	{40434181-D1F8-4BC4-BF68-F88BBA602C70}	-122.5985311	49.21814948	2	2 FHA	Fraser	Ridge Meadows COVID-19 Testing Centre
4	{EC39F27B-CD89-44FB-9C81-D24F7AD964FB}	-121.9645766	49.16613163	3	2 FHA	Fraser	Chilliwack COVID-19 Testing and Immunization Centre
5	{ABBA88B5-7CC2-4EB4-836E-8F9899A1A85E}	-122.6123934	49.09542818	4	2 FHA	Fraser	Langley Memorial Hospital
6	{03C1DA73-6752-4612-83A2-5D318DFB9F79}	-122.9973556	49.22499887	5	2 FHA	Fraser	Burnaby COVID-19 Testing and Immunization Centre
7	{1617186B-E10F-4935-86E9-9EA9271EAA10}	-122.8932259	49.22584268	6	2 FHA	Fraser	Fraser Northwest(Royal Columbian Medical Clinic)
8	{5F1DF389-DA03-48C4-B01C-DD22F059DD53}	-122.3254393	49.06557445	7	2 FHA	Fraser	Abbotsford COVID-19 Testing Centre
9	{F4DE268F-FC36-4F79-96B5-FB55D864534D}	-122.3323029	49.13489889	8	2 FHA	Fraser	Mission COVID-19 Testing and Immunization Centre
10	{3008C199-E8C9-48B9-96CC-DFD12C934501}	-122.7922922	49.03020526	9	2 FHA	Fraser	Peace Arch Hospital
11	{AE72805A-16CC-4987-B3AD-20B51AB28CE5}	-119.2499468	50.25104404	10	1 IHA	Interior	Vernon Health Centre
12	{085DD993-6E74-4C6A-BC48-B4F3300D998B}	-119.4754796	49.88309389	11	1 IHA	Interior	Kelowna Community Collection Centre
13	{30A91291-C49D-4930-8CD9-91108657548F}	-120.3346162	50.67017113	12	1 IHA	Interior	Kamloops Urgent and Primary Care Centre
14	{2B7B0D5F-5011-411C-B685-FCE2348DD569}	-119.5880698	49.4559597	13	1 IHA	Interior	Penticton Test Collection Centre
15	{688EAA4C-5353-4C0A-AE89-7299AA245F1D}	-121.2921049	51.6384958	14	1 IHA	Interior	South Cariboo Health Centre
16	{050E87F4-601D-44E7-A10F-69C8D60FA189}	-119.2687298	50.70580506	15	1 IHA	Interior	Salmon Arm Public Health Centre
17	{B8968C43-35D7-44C6-830C-F3A38C2F518B}	-122.1437423	52.13738722	16	1 IHA	Interior	Cariboo Memorial Hospital
18	{0F44E919-8993-464A-BB06-AE374795DB08}	-117.2846739	49.49503101	17	1 IHA	Interior	Kootenay Lake Hospital
19	{94FF4953-9940-4A13-AFF1-00D547E53EB8}	-117.7037124	49.09797877	18	1 IHA	Interior	Kiro Wellness Centre
20	{CB670AC1-F639-4CAA-B6EF-E4040CC00E17}	-115.7504821	49.51100857	19	1 IHA	Interior	Cranbrook Health Unit Centre (Rocky Mountain Lodge)
21	{747FE73B-C415-4228-9B54-25787BFF34AB}	-122.6966069	58.80781858	20	5 NHA	Northern	Fort Nelson Health Unit

H	I
Address	Specific_Location
Unit G2-9639 137A Street, Surrey	UNKNOWN
121-11900 Haney Place, Maple Ridge	Located at the Ridge Meadows Urgent and Primary Care Centre
45470 Menholm Road, Chilliwack	UNKNOWN
22051 Fraser Hwy, Langley, BC V3A 4H4	Enter via Emergency Dept
6515 Bonsor Avenue, Burnaby	UNKNOWN
107-301 East Columbia St, New Westminster, BC V3L 3L2	Clinic is across them RCH
Bldg 1 - 32470 Haida Drive, Abbotsford	Enter through Gate 2
7298 Hurd Street, Mission	Located at the Mission Community Health Centre
15521 Russell Avenue, White Rock	Collection centre entrance is on the side of the hospital in the cafeteria. Do not enter through the hospital main entrance.
1440 14th Avenue, Vernon	Park in COVID-19 designated stall. Wait outside the COVID-19 testing entrance until directed
2180 Ethel Street, Kelowna	Entrance on Glenwood Avenue; please follow signage. No drive-through testing capability.
102-311 Columbia St, Kamloops	UNKNOWN
140-3547 Skaha Lake Road, Penticton	Enter from Yorkton Ave. Park in designated spot and call number listed on arrival. If no cell phone, use sanitizing station at entrance and ring doorbell.
5550 Cedar Ave, 100 Mile House	Please report to the ER entrance. Report to the greeter and say you need a PCR test.
851 16th Street N, Salmon Arm	Park at the far end of the parking lot in the designated stalls (look for the orange cones). Stay in your car. The nurse will call or meet you at your car.
517 6th Avenue N, Williams Lake	Weekdays: Park in Parking Lot B in designated COVID-19 testing parking spot. Stay in your vehicle until a nurse directs you. Weekend & Stat Holidays: Pl
3 View Street, Nelson	Park in designated stall. Enter plastic awning area and follow signage.
1500 Columbia Avenue, Trail	Follow signage and park in designated driveway to the right of main entrance. For PCR test appts, remain in vehicle and nurse will come out at appointm
20 23rd Avenue S, Cranbrook	Enter off of 24th Ave. Drive past helicopter pad to the back of the health unit building. Park in a designated spot and call posted number on arrival.
5217 Airport Dr, Fort Nelson	UNKNOWN

	J	K	L
1	City_Town	Timings(Mon-Sun)	Days
2	Surrey	10:00 - 21:00	7 Days
3	Maple Ridge	11:30 - 16:00; closed for	Mon - Fri
4	Chilliwack	08:30 - 16:00	Mon - Fri; closed statutory holidays
5	Langley	08:00 - 18:00	7 Days
6	Burnaby	10:30 - 16:45	7 days; closed statutory holidays
7	New Westminster	09:00 - 20:00	7 Days
8	Abbotsford	08:30 - 15:30	7 days; open statutory holidays
9	Mission	09:00 - 13:00	Mon - Fri
10	White Rock	09:00 - 16:00	7 Days
11	Vernon	By appointment	Hours and days of operation are subject to change, see Interior Health's COVID-19 testing page for more information.
12	Kelowna	By appointment	Hours and days of operation are subject to change, see Interior Health's COVID-19 testing page for more information.
13	Kamloops	16:30 - 20:30	7 Days
14	Penticton	By appointment	Hours and days of operation are subject to change, see Interior Health's COVID-19 testing page for more information.
15	100 Mile House	15:00 -16:00	Hours and days of operation are subject to change, see Interior Health's COVID-19 testing page for more information.
16	Salmon Arm	By appointment	Mon - Fri. Hours and days of operation are subject to change, see Interior Health's COVID-19 testing page for more information.
17	Williams Lake	By appointment	Hours and days of operation are subject to change, see Interior Health's COVID-19 testing page for more information.
18	Nelson	By appointment	Hours and days of operation are subject to change, see Interior Health's COVID-19 testing page for more information.
19	Trail	By appointment	Hours and days of operation are subject to change, see Interior Health's COVID-19 testing page for more information.
20	Cranbrook	By appointment	Hours and days of operation are subject to change, see Interior Health's COVID-19 testing page for more information.
21	Fort Nelson	By appointment	Mon - Fri

	M	N
1	Special_Criteria_Consideratio	Phone
2	Testing on first come first serve, walk-in basis. Appts booked only for priority testing. When arriving to the site, a receipt is given showing a timeframe to	UNKNOWN
3	Appointment required. Book online at https://fraserhealth.secureform.ca/index.php	Central Intake Line: 604-587-3936, open 8:30 - 16: h
4	Appointment required. Book online at https://fraserhealth.secureform.ca/index.php	Central Intake Line: 604-587-3936, open 8:30 - 16: h
5	Call to book an appointment, press 2 and leave your name and number; your call will be returned in a timely manner within business hours. Due to curre	604-539-4392
6	Appointment required. Book online at https://fraserhealth.secureform.ca/index.php	Central Intake Line: 604-587-3936, open 8:30 - 16: h
7	The centre is open to all members of the public. Appointments are required either through the website or by calling 236-996-9000. There is NO walk-in s	236-996-9000
8	Appointment required. Book online at https://fraserhealth.secureform.ca/index.php	Central Intake Line: 604-587-3936, open 8:30 - 16: h
9	Appointment required. Book online at https://fraserhealth.secureform.ca/index.php	Central Intake Line: 604-587-3936, open 8:30 - 16: h
10	Appointment required. Book online at https://fraserhealth.secureform.ca/index.php	Central Intake Line: 604-587-3936, open 8:30 - 16: h
11	The public, health care workers and non-interior Health staff can book an appointment by calling: 1-877-740-7747	1-877-740-7747, open 07:00 - 19:00, 7 days a week h
12	The public, health care workers and non-interior Health staff can book an appointment by calling: 1-877-740-7747	1-877-740-7747, open 07:00 - 19:00, 7 days a week h
13	To book an appointment, call the Kamloops Public Health COVID Line at 250-851-7467, Sunday to Friday until 4 pm. After 4 pm on Friday and all day Satur	250-314-2256
14	The public, health care workers and non-interior Health staff can book an appointment by calling: 1-877-740-7747	1-877-740-7747, open 07:00 - 19:00, 7 days a week h
15	Open to the public, health care workers and staff. Walk-ins accepted.	1-877-740-7747, open 07:00 - 19:00, 7 days a week h
16	The public, health care workers and non-interior Health staff can book an appointment by calling: 1-877-740-7747	1-877-740-7747, open 07:00 - 19:00, 7 days a week h
17	The public, health care workers and non-interior Health staff can book an appointment by calling: 1-877-740-7747	1-877-740-7747, open 07:00 - 19:00, 7 days a week h
18	The public, health care workers and non-interior Health staff can book an appointment by calling: 1-877-740-7747	1-877-740-7747, open 07:00 - 19:00, 7 days a week h
19	The public, health care workers and non-interior Health staff can book an appointment by calling: 1-877-740-7747	1-877-740-7747, open 07:00 - 19:00, 7 days a week h
20	The public, health care workers and non-interior Health staff can book an appointment by calling: 1-877-740-7747	1-877-740-7747, open 07:00 - 19:00, 7 days a week h
21	Appointment required. Individuals with symptoms of COVID-19 may book online at https://northernhealthcovid.secureform.ca/index.php or call the No	1-844-645-7811 Call: 10:00 - 22:00, 7 days a week i h

	N	O	P	Q	R	S
1	Phone	Website	Status	Public_Access	Referral_Required	EditDate
2	UNKNOWN	UNKNOWN	Close	Yes	No	2020/10/1
3	Central Intake Line: 604-587-3936, open 8:30 - 16:30, 7 days a week to help with book	https://fraserhealth.secureform.ca/index.php	Open	Yes	Yes	2022/05/0
4	Central Intake Line: 604-587-3936, open 8:30 - 16:30, 7 days a week to help with book	UNKNOWN	Open	Yes	Yes	2022/05/0
5	604-539-4392	UNKNOWN	Close	Yes	No	2020/11/2
6	Central Intake Line: 604-587-3936, open 8:30 - 16:30, 7 days a week to help with book	https://fraserhealth.secureform.ca/index.php	Open	Yes	Yes	2022/05/1
7	236-996-9000	https://www.divisionsbc.ca/fraser-northwest/influenza-symptom-te	Close	Yes	No	2020/06/1
8	Central Intake Line: 604-587-3936, open 8:30 - 16:30, 7 days a week to help with book	https://fraserhealth.secureform.ca/index.php	Close	Yes	Yes	2022/05/1
9	Central Intake Line: 604-587-3936, open 8:30 - 16:30, 7 days a week to help with book	https://fraserhealth.secureform.ca/index.php	Open	Yes	Yes	2022/04/2
10	Central Intake Line: 604-587-3936, open 8:30 - 16:30, 7 days a week to help with book	https://fraserhealth.secureform.ca/index.php	Close	Yes	Yes	2021/12/2
11	1-877-740-7747, open 07:00 - 19:00, 7 days a week to help with booking an appointm	https://www.interiorhealth.ca/health-and-wellness/disease-outbre	Open	Yes	Yes	2022/06/0
12	1-877-740-7747, open 07:00 - 19:00, 7 days a week to help with booking an appointm	https://www.interiorhealth.ca/health-and-wellness/disease-outbre	Close	Yes	Yes	2022/05/3
13	250-314-2256	UNKNOWN	Close	Yes	Yes	2022/04/1
14	1-877-740-7747, open 07:00 - 19:00, 7 days a week to help with booking an appointm	https://www.interiorhealth.ca/health-and-wellness/disease-outbre	Close	Yes	Yes	2022/06/0
15	1-877-740-7747, open 07:00 - 19:00, 7 days a week to help with booking an appointm	https://www.interiorhealth.ca/health-and-wellness/disease-outbre	Open	No	No	2022/06/0
16	1-877-740-7747, open 07:00 - 19:00, 7 days a week to help with booking an appointm	https://www.interiorhealth.ca/health-and-wellness/disease-outbre	Open	Yes	Yes	2022/06/0
17	1-877-740-7747, open 07:00 - 19:00, 7 days a week to help with booking an appointm	https://www.interiorhealth.ca/health-and-wellness/disease-outbre	Open	Yes	Yes	2022/06/0
18	1-877-740-7747, open 07:00 - 19:00, 7 days a week to help with booking an appointm	https://www.interiorhealth.ca/health-and-wellness/disease-outbre	Close	Yes	Yes	2022/06/0
19	1-877-740-7747, open 07:00 - 19:00, 7 days a week to help with booking an appointm	https://www.interiorhealth.ca/health-and-wellness/disease-outbre	Open	Yes	Yes	2022/06/0
20	1-877-740-7747, open 07:00 - 19:00, 7 days a week to help with booking an appointm	https://www.interiorhealth.ca/health-and-wellness/disease-outbre	Open	Yes	Yes	2022/04/2
21	1-844-645-7811 Call: 10:00 - 22:00, 7 days a week including statutory holidays. Fax req	https://northernhealthcovid.secureform.ca/index.php	Open	Yes	Yes	2022/01/1

	R	S	T	U	V	W	X
	Referral_Required	EditDate	Object	AcceptChildren	Accepts_Children	Drive_Through_Testing	
1	No	2020/10/13 19:44:33+00	1	Yes	UNKNOWN	UNKNOWN	
2	Yes	2022/05/05 22:20:03+00	1	Accepts children aged 3 months and over.	Yes	No	
3	Yes	2022/05/03 20:21:51+00	1	No age limit	Yes	No	
4	No	2020/11/27 22:39:07+00	1	Accepts children aged 3 months and over.	UNKNOWN	UNKNOWN	
5	Yes	2022/05/17 15:17:52+00	1	Accepts children aged 3 months and over.	Yes	No	
6	No	2020/06/15 16:20:29+00	1	Yes	UNKNOWN	UNKNOWN	
7	Yes	2022/05/12 22:26:23+00	1	Accepts children aged 3 months and over.	Yes	No	
8	Yes	2022/04/25 17:27:49+00	1	Accepts children aged 3 months and over.	Yes	No	
9	Yes	2021/12/29 21:48:58+00	1	Accepts children aged 3 months and over.	UNKNOWN	UNKNOWN	
10	Yes	2022/06/01 21:39:57+00	1	All ages	Yes	No	
11	Yes	2022/05/31 23:40:22+00	1	All ages	Yes	No	
12	Yes	2022/04/13 16:35:33+00	1	Yes	UNKNOWN	UNKNOWN	
13	Yes	2022/06/02 15:51:14+00	1	All ages	Yes	No	
14	No	2022/06/01 21:21:02+00	1	All ages	Yes	No	
15	Yes	2022/06/02 16:03:37+00	1	All ages	Yes	Yes	
16	Yes	2022/06/01 20:53:05+00	1	All ages	Yes	No	
17	Yes	2022/06/02 15:39:28+00	1	All ages	Yes	No	
18	Yes	2022/06/01 21:17:59+00	1	All ages	Yes	Yes	
19	Yes	2022/04/26 20:53:27+00	1	All ages	Yes	No	
20	Yes	2022/01/13 18:33:06+00	1	All ages	Yes	No	

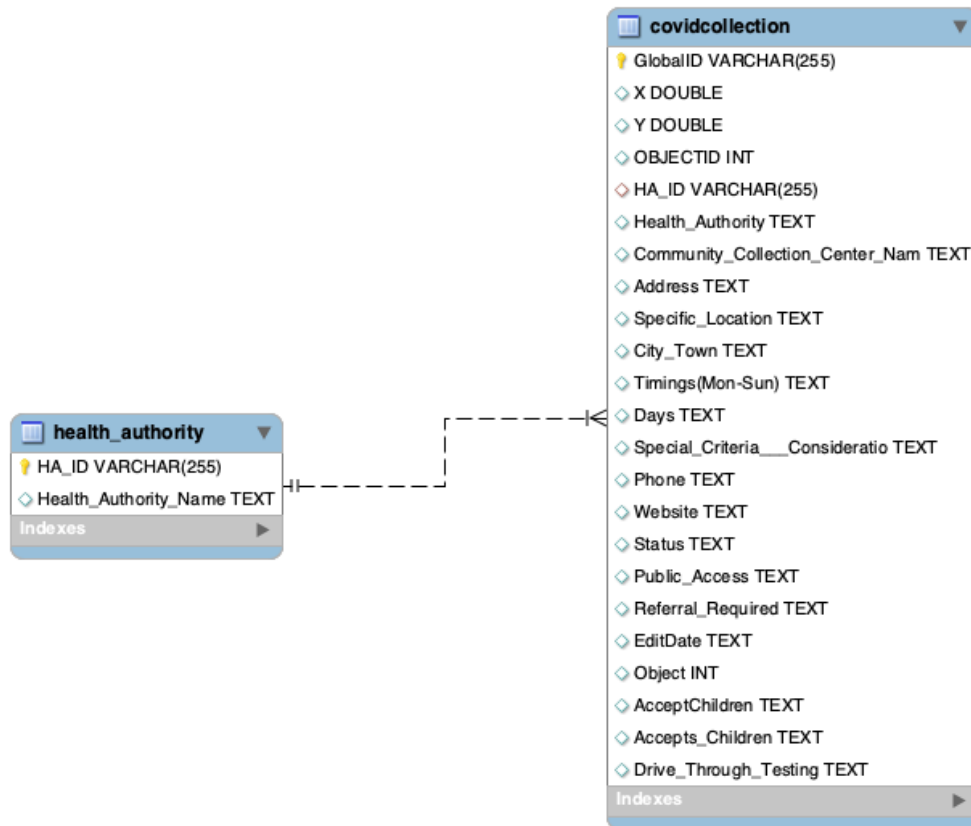
The screenshot consists of 20 data but can take a look of all row through attached excel file. Also the “unknown” values are added when there was no data.

4. After eliminating Partial Dependency, we check for transitive dependency. If there is any transitive dependency, it should be eliminated too.
 - Transitive Dependency occurs when some non-key attribute determines some other attribute.
 - So in our case, there is no transitive dependency.

Therefore our table is normalized upto 2NF.

STEP-2:

Constructing ERD in MySQL Workbench using Forward Engineering.



STEP-3:

SQL dump values are attached with the folder.

Reference:

<https://resources-covid19canada.hub.arcgis.com/datasets/bcgov03::b-c-covid-19-collection-centres/explore?location=53.736499%2C-123.342959%2C5.02>

