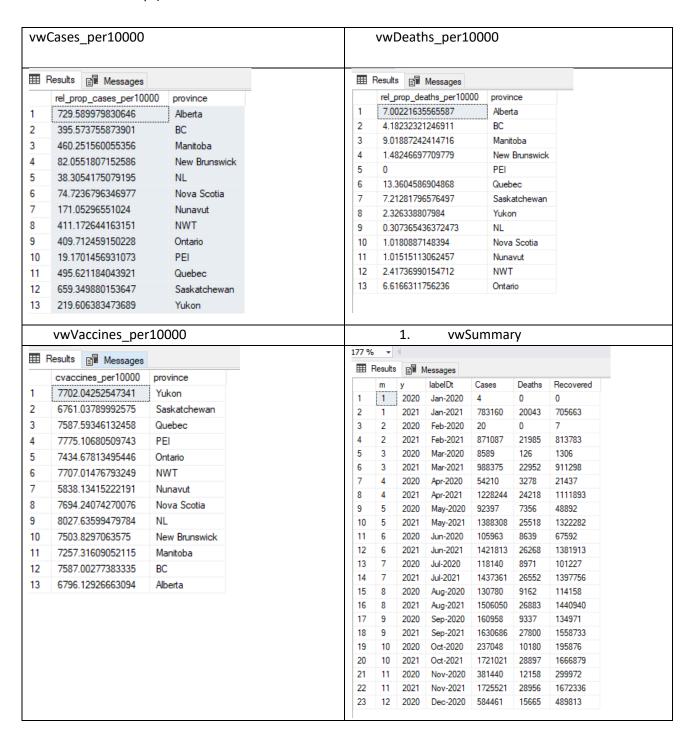
Assignment 2 – MS PowerBI and SSRS (100pts)

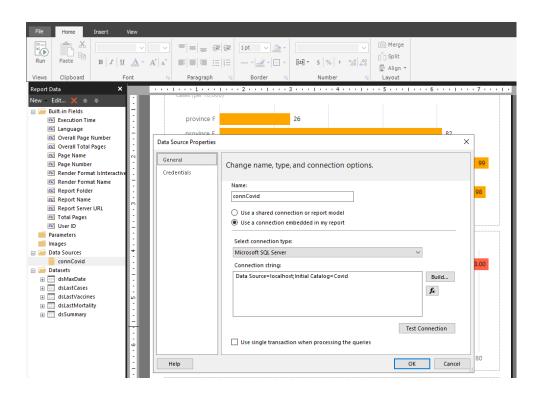
-SSRS-

- 1. Create a SSRS Report using the Report Builder. A sample pdf Report is provided (CovidStatus.pdf). You will need to import the MS Excel files provided in Brightspace into MS SQL Server.
- a. b. Please import and create a Table for the following data sheet in the CovisData.xls file. Please provide a screen capture of your tables below(5pts).

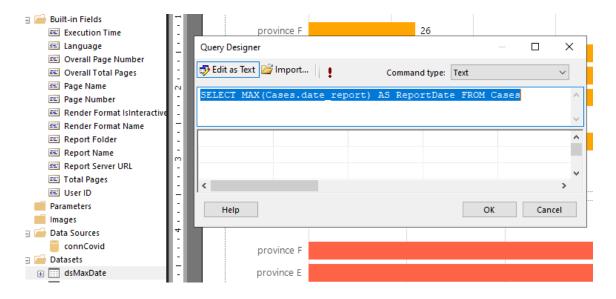
 Please provide the SQL code used to create each View listed below (20pts) in a separate sql file (name the file "views.sql")



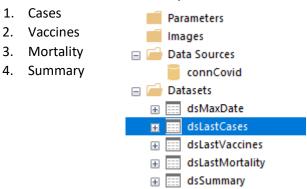
c. In the SSRS Report Builder create the following Data Source connection to your [Covid] Database (3pts):



d. Please create a dataset which gets the last report date from your Cases Table in the Covid Database (2pts):



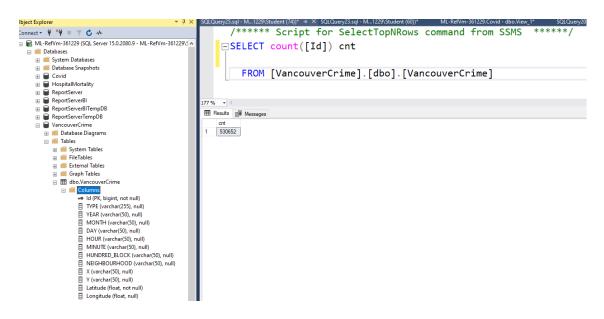
e. Please create datasets in SSRS Report Builder to the following views (5pts):



f. Using the datasets previously created, please recreate the attached CovidStatus.pdf (35pts). Please submit to BrightSpace both a pdf export of your report as well as your "CovidStatus.rdl" file.

-Power BI-

- Using the provided dataset on Crimes occurring in Vancouver
 (https://www.kaggle.com/wosaku/crime-in-vancouver?select=crime.csv), please import the data into MS SQL Server Please provide a screenshot image of your imported table.
 - a. Please also include a select query that counts all rows as provided in the image below. The Image provided through BrightSpace should include the expanded columns of the VancouverCrime] table as shown below. (3pts)



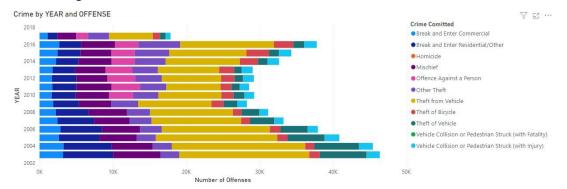
b. Create an MS Power BI Report called "**Crime in Vancouver**" and save it to your MS Power BI Reporting Server. (2pts) Please Provide a Screen Capture below of the file.

c. Create 2 pages for your Power Bi Report

Please ensure that the Bar chart is a cumulative percentage for each Year and that all Years are shown. For the Tablix, please only show Years 2010-2017 and exclude all Neighbourhoods with NULL/BLANK Names. The Neighbourhood column should be sorted alphabetically. Please submit a pdf copy of your report in Brightspace.

Page 1

a. Crime by Year Bar Chart (10 pts) – showing a bar chart of Year and Offenses. Please include the Legend and data as follows:



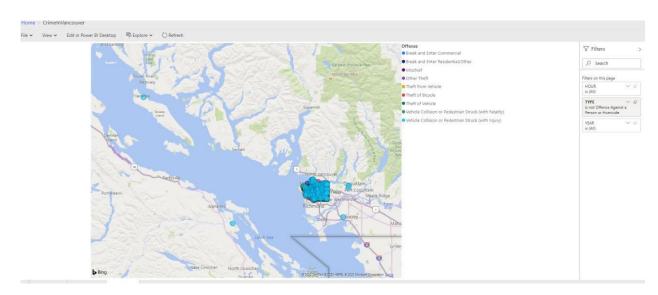
You are required to ensure that your chart, x and y axes are titled exactly as above, and your legend should be on the right and titled **Crime Committed**

b. Please Create a Matrix that includes Offense by Year (5pts)

Offense	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Total
Break and Enter Commercial	3197	3283	2639	2844	2436	2224	1858	1656	1749	1687	1774	2244	2457	2686	1111	3384
Break and Enter Residential/Other	6883	6538	5542	5674	4996	4432	3497	3270	3231	3311	3025	3044	3121	2994	1304	6086
Homicide	18	22	22	17	19	18	18	10	15	8	7	9	15	11	11	22
Mischief	6391	5601	5062	5184	4810	5276	4430	4506	4828	4243	4191	4518	4193	4599	2581	7041
Offence Against a Person	3507	3804	3771	4350	4412	4226	3885	3731	3870	3786	3663	3158	3202	3172	1605	5414
Other Theft	2582	2605	2611	2966	3024	3142	3662	3432	3562	3630	3488	4210	4679	5708	2866	5216
Theft from Vehicle	17744	18204	16554	14734	12226	11298	10007	8612	7435	8097	8340	10137	10544	12806	5962	17270
Theft of Bicycle	1418	1230	1416	1467	1203	1176	1641	1667	1517	1817	2034	2461	3063	2634	986	2573
Theft of Vehicle	6361	6102	5031	3682	3305	2420	1882	1467	1093	1151	1034	1290	1371	1474	755	3841
Vehicle Collision or Pedestrian Struck (with Fatality)	24	22	32	20	24	17	14	10	11	18	15	13	14	15	5	25
Vehicle Collision or Pedestrian Struck (with Injury)	1803	1868	1984	1384	1237	1185	1278	1327	1262	1474	1485	1575	1669	1699	671	2190
Total	49928	49279	44664	42322	37692	35414	32172	29688	28573	29222	29056	32659	34328	37798	17857	53065

Page 2

Include a Map showing all locations of Crimes occurring in Vancouver (10 pts).



Please ensure that the map can be filtered by: HOUR, CRIME TYPE, and YEAR. The map needs to include a Legend with the Title "Offense".

Your Brightspace Submission should include the following:

- a. A screenshot image (png) of VancouverCrime table, and query in your MS SQL Server Database
- b. The sql code to create the 4 views required to produce the CovidStatus.rdl datasets
- c. A screenshot image (png) of your newly created Report on your Power BI Reporting Server
- d. A pdf copy of both the SSRS and PowerBI Reports (CovidStatus.pdf, VancouverCrime.pdf)
- e. Your CrimeInVancouver.pbix and CovidStatus.rdl files

The Assignment 2 will be due on Sun, 14th November @ midnight. If you are not clear on the requirements of this assignment please contact me as soon as possible so that I can help clarify things.