**DATA Analysis Project – Crime Analysis**

**Background**

You have been retained by the RCMP (federal police) to help determine how to better work with and support the police that operate in the different provinces – namely **Ontario, Manitoba and British Columbia (BC)**. You will be providing the data to Officer Ricard. Officer Ricard expects you to prepare a formal presentation for what you uncover. Focus your analysis on one **specific crime** rather than on all available crimes combined.

**Instructions**

1. Create visualizations that will allow Officer Richard to achieve the following:

* Compare the crime rates between **Ontario, Manitoba and British Columbia** in the last 10 years.
* Compare the crime rates for the top 3 cities for Ontario, the top 3 cities for Quebec, and the top 3 cities for British Columbia with the highest crime in the last 10 years.
* Determine if there is a correlation between youth crime and adult crime for each high crime rate city
* Determine the crime rate for next year for Ontario, Quebec and British Columbia.

2. Use Power BI desktop to import data and create visualizations, then use Windows Snipping tool or any other screen capture tool to export your charts to your report.

3. Use data from <http://www.statcan.gc.ca/eng/subjects/crime_and_justice>. Download the entire table as CSV datasets. Refer to class recording/practice on how to use Power Query to load and transform data with Power BI.

* Incident-based crime statistics, by detailed violations and police services, Ontario, annual (Number)
* Incident-based crime statistics, by detailed violations, police services in British Columbia (Number)
* Incident-based crime statistics, by detailed violations and police services, Manitoba, annual (Number)
* Use data for the 3 provinces.
* Use data for only three of the highest crime rate cities for a province.

4. Put it in word or pdf format and submit to DC Connect

**Recommended Outline**

1. Introduction: Summary of the whole presentation. (~100 words)
2. Justification for the Visualization tool (~75 words)
3. Explanation of data analysis / visualization approach (~100-150 words)
4. Report findings (use embedded visualizations and narrative to highlight insights)
5. Crime Rate prediction: Predict amount of crime for Ontario, Manitoba and British Columbia from a province perspective (~100-200 words)
6. Conclusion

\* Keep in mind that you are not preparing this report for the instructor, this report is for RCMP officer.