Enhancing anti-money laundering capabilities through data-driven analytics

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BCLC

You may have heard …

'BCLC could have stopped this': Former casino investigators question whether officials unwilling to stop criminal activity

BY SAM COOPER · GLOBAL NEWS

Posted February 7, 2019 6:03 am
Updated February 7, 2019 5:18 pm

Amid more 'dirty money' revelations, BCLC seeks 'anti-money laundering solution'

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Report: Anti-money-laundering measures could slam BCLC casino revenue

Lottery Corporation calls for tenders after investigator cites $7.3-million software debacle

Sam Cooper / Vancouver Sun
MARCH 16, 2018 02:00 PM

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Jason Proctor · CBC News · Posted: May 11, 2019 5:00 AM PT | Last Updated: May 11

VANCOUVER SUN

'They turned a blind eye to it,' says Eby on release of damning German report into money laundering at B.C. casinos

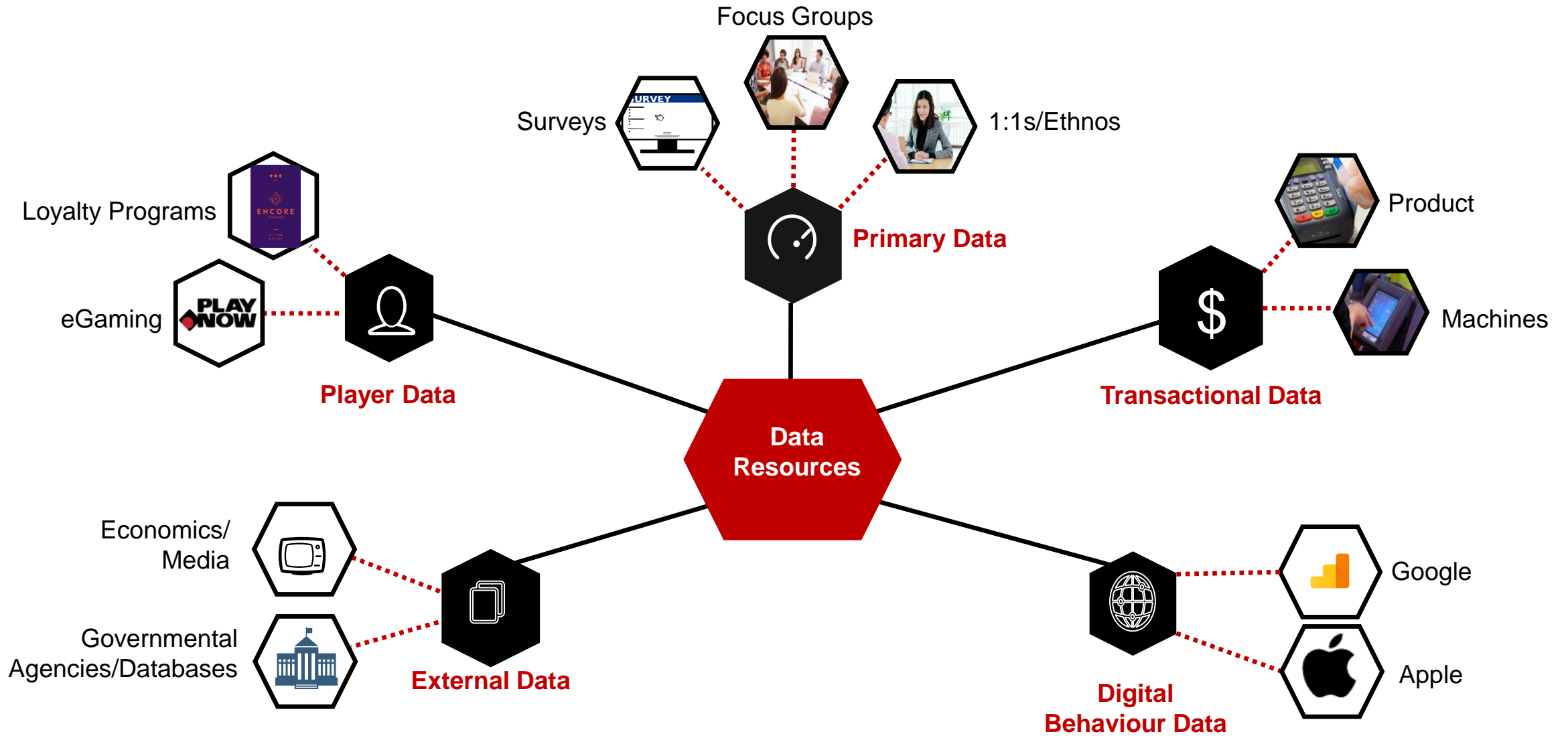GORDON HOEKSTRA   Updated: June 28, 2018

Outline

- The Formula

- The Opportunity

- The Methodology

- The Results

- 3 Nudges for BI Practitioners

The Formula:

A combination of People, Technical, and Data Resources

The Formula

The Opportunity

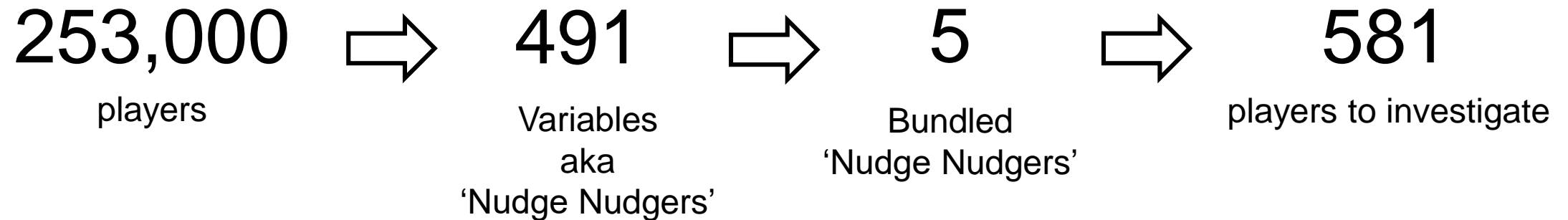So, what outcomes, capabilities, can be predicted... what is likely to be banned?

The Methodology:

Predictive Modelling with Decision Tree Analysis

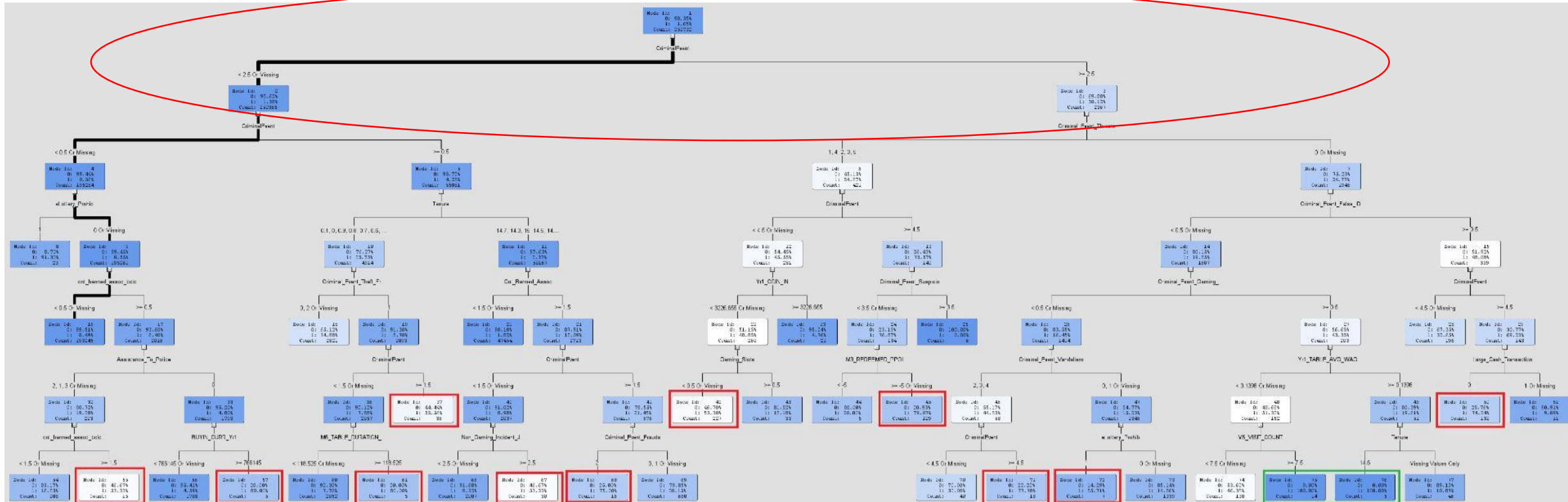# The Methodology: Predictive Modelling with Decision Tree Analysis

From several sources, we examined the traits, characteristics, behaviours, legal records and documents that relate to individuals who have been banned from our facilities.

253,000 ⇨ 491 ⇨ 5 ⇨ 581

players

Variables
aka
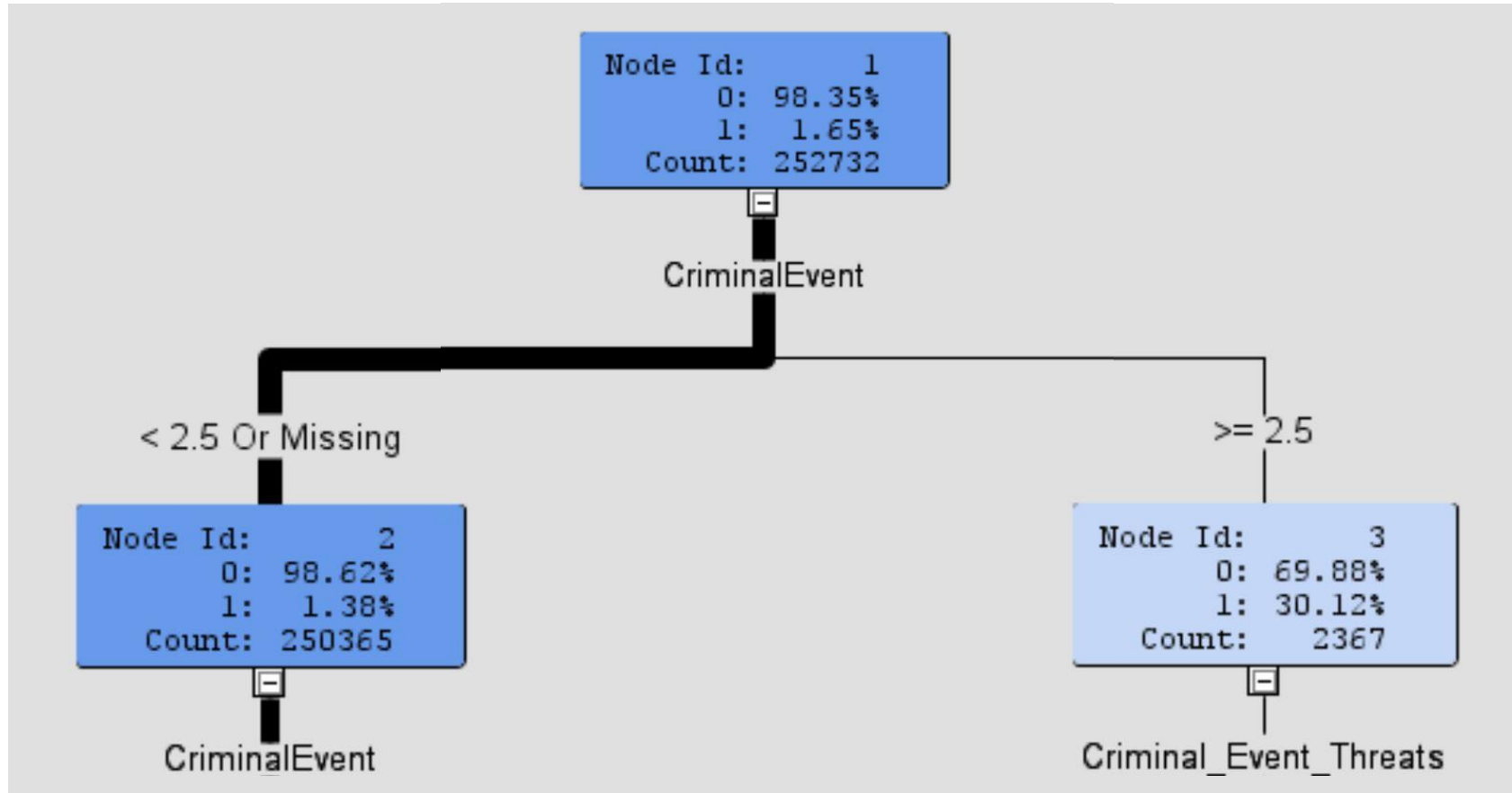'Nudge Nudgers'

Bundled
'Nudge Nudgers'

players to investigate

The analysis looked like this …

The Methodology: Predictive Modelling with Decision Tree Analysis

A closer look from the top of the tree …

The Methodology: Predictive Modelling with Decision Tree Analysis

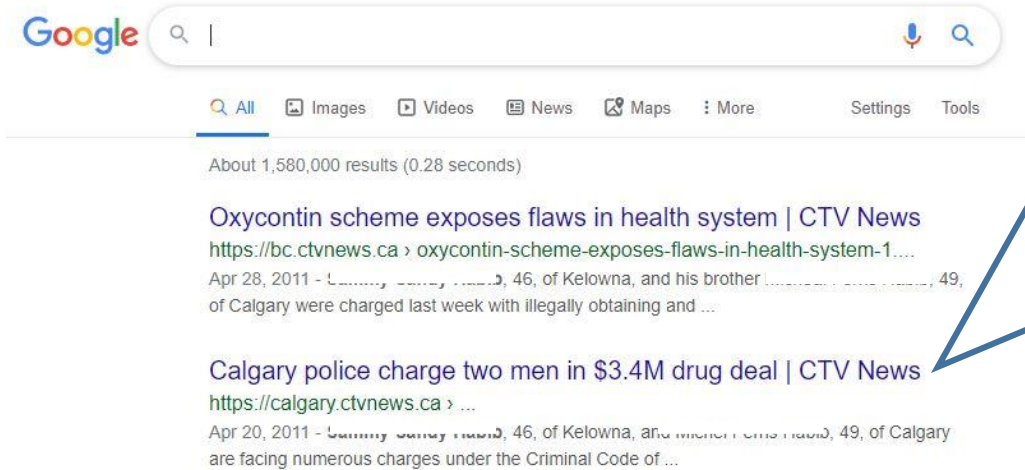… repeat the branching process until clusters are created

Results: Bundled 'Nudge Nudgers'

We modelled the data to help us determine which of these variables were the strongest in leading to banned behavior among the 581

NODE 13

316 players with banned-like attributes:
- 1 or more banned associates
- Played for less than 2 years
- 1 or more criminal events

NODE 21

96 players with banned-like attributes:
- No known banned associates
- 3 or more criminal events
- 1 or more criminal event threats

NODE 45

26 players with banned-like attributes:
- No known banned associates
- 3 or more criminal events
- No known criminal event threats
- 1 or more criminal events related to gaming cheating

NODE 25

49 players with banned-like attributes:
- Played for less than 2 years
- No known criminal events
- 2 or more Banned Associates

NODE 30

94 players with banned-like attributes:
- 1 or more banned associates
- Played for between 2 and 4 years
- 2 or more criminal events

Results: Actual Case Example

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About 1,580,000 results (0.28 seconds)

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https://calgary.ctvnews.ca › ...
Apr 20, 2011 - ~~Sammy Sandy Habib~~, 46, of Kelowna, and ~~Michel Feris Habib~~, 49, of Calgary are facing numerous charges under the Criminal Code of ...

CANADA

Calgary brothers charged with selling 67,660 Oxycontin pills

Thu., April 21, 2011 | ⏱ 1 min. read

CALGARY—Two brothers are accused of getting and filling more than 85 prescriptions of highly addictive Oxycontin in both Alberta and British Columbia, then selling the pills on the street for a profit.

Calgary police say the men allegedly obtained prescriptions for various strengths of the narcotic painkiller from more than a dozen doctors in Alberta and B.C.

The accused allegedly filled the prescriptions at pharmacies in Alberta and B.C., sometimes filling the same prescription in both provinces — known as double-doctoring.

3 Nudges for BI Practitioners

1. Look internally for opportunities that might exist from your resources

2. Behaviours from the past are a rich source of indicating behaviours of the future

3. Methodologies with large sets of data do not need to be complicated

Questions?

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