

Sources

Denver crime data
(.csv, 19 columns, 1
incident per row)

Denver offense codes
(.csv, 8 columns, 1
offense per row)

Vancouver crime data
(.csv, 12 columns, 1
incident per row)

Crime Category
Mappings

Impute missing
long/lat values
from
neighborhood
coordinates

Convert reporting
and occurrence
date and times to
datetime format

Derive
neighborhood
names from
neighborhood
IDs

Covert X and
Y to longitude
and latitude

Set date
format to
YYYYMMDD

Assign
location of
crime to
"Vancouver"

Set format of
time to H:M:S

Rename and drop
unused columns
to match
dimensional
model

Assign facts
isTraffic,
isFatal,
isNighttime

Assign offense type
and category
names

Rename and drop
unused columns
to match
dimensional
model

Assign values of
isTraffic, isFatal,
isNighttime

Assign first
occurrence and
last occurrence
times

Assign
offense type
and category
names

Check
preprocessed
Denver crime
data

Merge Denver
and Vancouver
crime data over
intersecting date
ranges

Check
preprocessed
Vancouver crime
data

Targets

Crime Fact

Crime Dimension

Date Dimension

Event Dimension

Location Dimension

