

# CCH Analytic Dashboards

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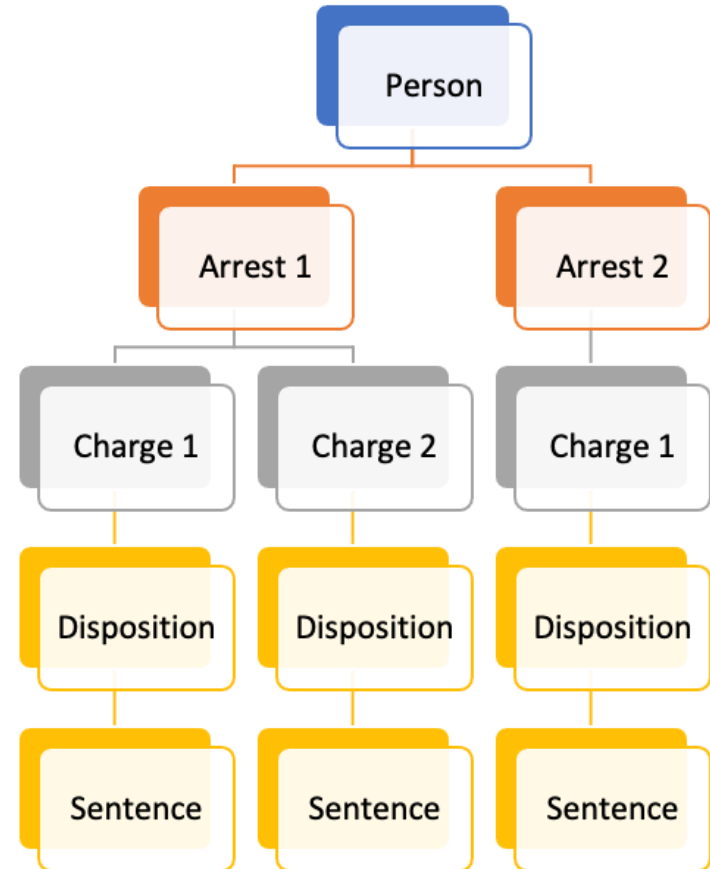
**Membership Group Meeting**

January 26, 2023

# The Common Data Model

- The Common Data Model (CDM) was created to normalize states' data
- Based on JTF standard
- Added data elements for specific CCH elements – sentence data
- Added derived and calculated data elements

Figure 1 - Criminal History Data Structure



# Data Collection

- Worked with individual states
  - Arkansas, Connecticut, Maine
- Received the CCH data tables as CSV tables
  - Used Data Dictionaries and ERDs
- Work directly with state DBAs and repository staff on data mapping
- Set up automated data extracts on monthly basis

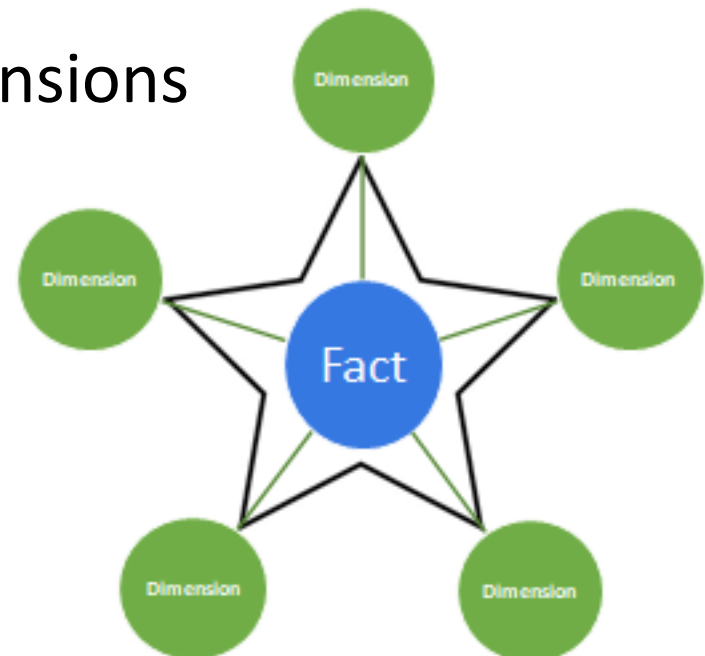


# ETL Process

- **Secure environment for states to share raw data**
- **Remove PII or hash identification numbers**
- **Develop code tables to standardize dispositions, charge categories, etc.**
- **Separate CDM for each state**
- **Add NCIC offense codes and other codes as needed**
- **Review with contributing state**
- **Add the derived and calculated elements**

# Analytics Database

- **Dimensional Model for Analytics**
  - Used to form data to human-usable metrics
  - Improve data retrieval
  - Defines granularity – what level of detail to view the data
  - Create facts based on dimensions
  - Star schema



# Criminal History Metrics Working Group Vision

- **Thinking beyond dashboards**
  - CDM is a rich uniform data set
  - Inform survey
- **Ability to do research and inform state and national Criminal Justice policy**
- **Comparison of state data**
- **Data integration and new exchanges**

# Criminal History Dashboard Demo

