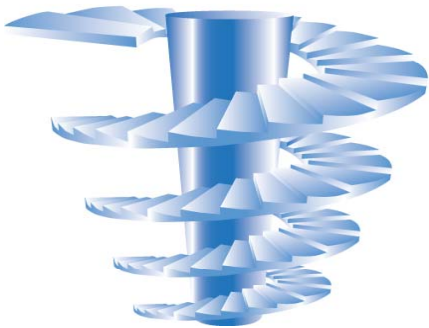


EW Solutions

World-Class Data Warehousing Models Law Enforcement



**To purchase these models please email:
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Strategic Partner & Systems Integrator
Intelligent Business Intelligencesm



EW Solutions' Background

EW Solutions is a Chicago-headquartered strategic partner and full life-cycle systems integrator providing both **award winning** strategic consulting and **full-service implementation services**. This combination affords our clients a full range of services for any size enterprise information management, managed meta data environment, and/or data warehouse/business intelligence initiative. Our notable client projects have been featured in the Chicago Tribune, Federal Computer Weekly, Crain's Chicago Business, and won the 2004 Intelligent Enterprise's RealWare award, 2007 Excellence in Information Integrity Award nomination and DM Review's 2005 World Class Solutions award.



2007 Excellence in Information Integrity Award Nomination



World Class Solutions Award Data Management



Best Business Intelligence Application Information Integration

Client: Department of Defense



For more information on our Strategic Consulting Services, Implementation Services, or World-Class Training, call toll free at 866.EWS.1100, 866.397.1100, main number 630.920.0005 or email us at Info@EWSolutions.com

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EW Solutions' Partial Client List

Arizona Supreme Court
Bank of Montreal
BankUnited
Basic American Foods
Becton, Dickinson and Company
Blue Cross Blue Shield companies
Branch Banking & Trust (BB&T)
British Petroleum (BP)
California DMV
College Board
Corning Cable Systems
Countrywide Financial
Defense Logistics Agency (DLA)
Delta Dental
Department of Defense (DoD)
Driehaus Capital Management
Eli Lilly and Company
Federal Aviation Administration
Federal Bureau of Investigation (FBI)
Fidelity Information Services

Ford Motor Company
GlaxoSmithKline
Harris Bank
The Hartford
Harvard Pilgrim HealthCare
Health Care Services Corporation
Hewitt Associates
HP (Hewlett-Packard)
Information Resources Inc.
International Paper
Janus Mutual Funds
Johnson Controls
Key Bank
LiquidNet
Loyola Medical Center
Manulife Financial
Mayo Clinic
Microsoft
National City Bank
Nationwide

Neighborhood Health Plan
NORC
Physicians Mutual Insurance
Pillsbury
Quintiles
Sallie Mae
Schneider National
Secretary of Defense/Logistics
South Orange County Community College
SunTrust Bank
Target Corporation
The Regence Group
Thomson Multimedia (RCA)
United Health Group
United States Air Force
United States Navy
United States Transportation Command
USAA
Wells Fargo
Wisconsin Department of Transportation
Zurich Cantonal Bank

GSA Schedule
Contract GS-35F-0453M



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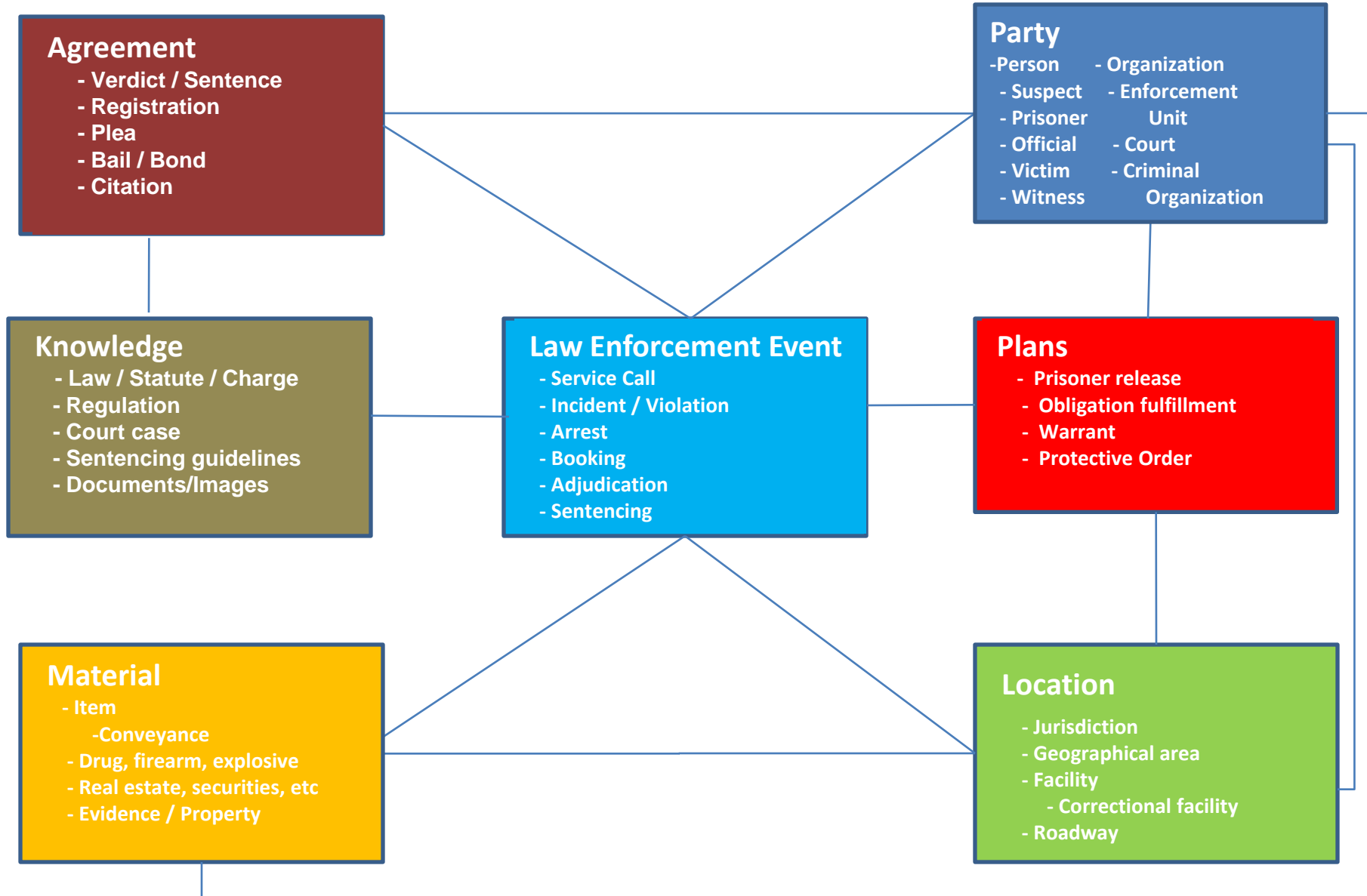
Law Enforcement Data Warehousing Model

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EW Solutions' Law Enforcement Industry Subject Area Model (ISAM)





Law Enforcement Key Data Entities

Law Enforcement – Key Data Entities:

- Primary aim of the Law Enforcement models is to be able to track Law Enforcement efficacy – e.g. response times, right personnel responding to the right crimes, violations of the law being effectively adjudicated
- A key means to do this is to be able to track the lifecycle of an Incident (down to the violations on the incident)
- From a **Service Call (e.g. 911) > Incident > Arrest / Citation > Court Case > Sentence**
- Includes aspects of criminal court cases, e.g. court, judicial officers, charges & charge versions, sentences
- The many types of Parties are tracked by role – and **all of the activities related to a single Person, Organization, or Non Human Subject (e.g. police dog) can be tracked** – regardless of the role (e.g. in one incident a person may be a victim, in another incident the same person might be a subject)



Law Enforcement Key Data Entities

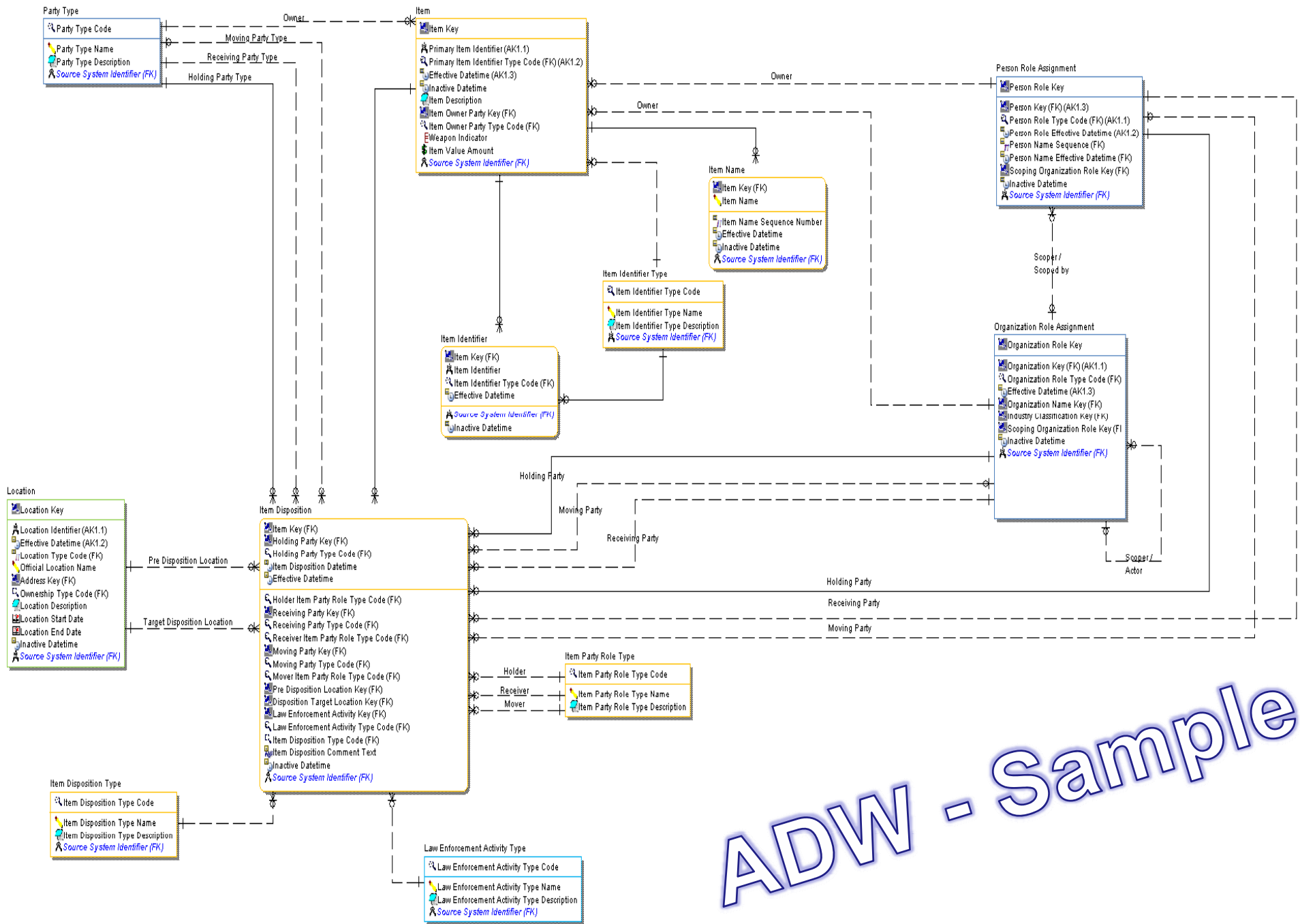
Law Enforcement – Key Data Entities:

- Items (e.g. evidence, property) can be effectively tracked to ensure proper usage (e.g. was an evidence item obtained during an Incident used as evidence in the court case)
- Items such as written or recorded testimony can be captured and stored in the ADW as is, or key pieces of information can be extracted using text mining, facial recognition, etc and stored to provide richer analysis capabilities.
- For example, entity extraction can be used to identify people, locations which are contained in free form text fields.



Law Enforcement – Atomic Data Warehouse

- The Atomic Data Warehouse is the central hub in which cleansed, standardized, and integrated data is stored in a mostly 3NF format (non-decomposable, non-redundant)
- Sole source for dependant, dimensional Data Marts
- Logical and physical representations
- Nearly every table has record versioning in place (except for very small, static tables) – to facilitate the most thorough historical analysis possible.
- Surrogate keys are used heavily for simplicity, ease of use, and performance
- Whenever a surrogate key is used – an alternate key(s) (AK) are used to identify the natural key(s) – to retain business meaning



ADW - Sample



Law Enforcement Data Mart

- ❑ Dimensional model suited to high performance analytics and reporting on large volumes of data
- ❑ Utilizes conformed dimensions to enable drill-across from one analysis area to another
- ❑ Designed to support KPI's (key performance indicators) that many Law Enforcement agencies are interested in measuring
- ❑ Highly denormalized for query performance and ease of use
- ❑ Includes mapping to the ADW to facilitate rapid deployment



Law Enforcement KPIs

Law Enforcement – Charge Lifecycle KPI's

KPI's

Arrests / Convictions

- Number of Incidents with/without Arrests
- Ratio of Arrests to Convictions
- Capture rates (e.g. warrants)

Intelligence

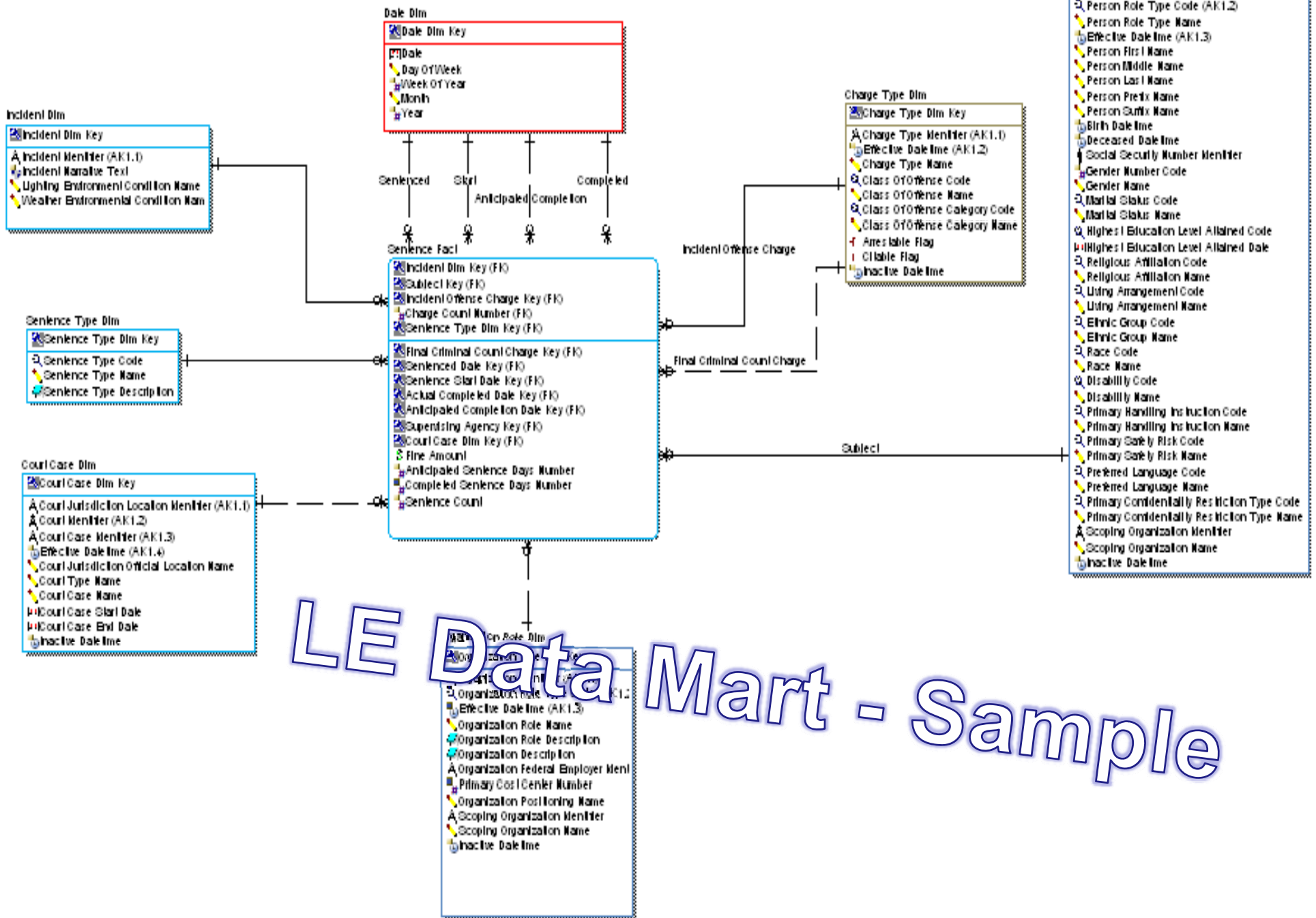
- Number of arrests/captures aided by information based “tips”
- Number of convictions aided by information providing support and evidence
- High frequency crime locations, times

Deployment Support

- Response time
- Correct response – sending right personnel to right incidents

Drill Down Options

- Law Enforcement official
- Law enforcement organization
- Subject, Victim, Witness, etc
- Evidence, Affected Property
- Geography
- Date / Time
- Statute
- Sentence
- Specialty / Accreditation



LE Data Mart - Sample



Questions

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