

1. Crime

- Attributes: crime_id, location_id, time_id, offender_id, victim_id, officer_id, crime_type, crime_description, crime_date
- Primary key: crime_id
- Foreign keys: location_id (referring to the Location entity), time_id (referring to the Time entity), offender_id (referring to the Offender entity), victim_id (referring to the Victim entity), officer_id (referring to the Law Enforcement entity)
- Relationships:
 - Many-to-one relationship with Location entity: A crime occurs at a location, so the Crime entity has a many-to-one relationship with the Location entity.
 - Many-to-one relationship with Time entity: A crime occurs at a specific time, so the Crime entity has a many-to-one relationship with the Time entity.
 - Many-to-one relationship with Offender entity: A crime is committed by an offender, so the Crime entity has a many-to-one relationship with the Offender entity.
 - Many-to-one relationship with Victim entity: A crime is committed against a victim, so the Crime entity has a many-to-one relationship with the Victim entity.
 - Many-to-one relationship with Law Enforcement entity: A crime is reported by law enforcement officers, so the Crime entity has a many-to-one relationship with the Law Enforcement entity.

2. Location

- Attributes: location_id, address, latitude, longitude
- Primary key: location_id
- Relationships:
 - One-to-many relationship with Crime entity: A location can have multiple crimes reported at different times, so the Location entity has a one-to-many relationship with the Crime entity.

3. Time

- Attributes: time_id, date, hour
- Primary key: time_id
- Relationships:
 - One-to-many relationship with Crime entity: A specific time can have multiple crimes reported at different locations, so the Time entity has a one-to-many relationship with the Crime entity.

4. Offender

- Attributes: offender_id, name, age, gender, race
- Primary key: offender_id
- Relationships:
 - One-to-many relationship with Crime entity: An offender can commit multiple crimes at different times and locations, so the Offender entity has a one-to-many relationship with the Crime entity.

5. Victim

- Attributes: victim_id, name, age, gender, race

- Primary key: victim_id
 - Relationships:
 - One-to-many relationship with Crime entity: A victim can be involved in multiple crimes at different times and locations, so the Victim entity has a one-to-many relationship with the Crime entity.
6. Officer
- Attributes: officer_id, name, age, gender, race, department
 - Primary key: officer_id
 - Relationships:
 - One-to-many relationship with Crime entity: An officer can report multiple crimes at different times and locations, so the Law Enforcement entity has a one-to-many relationship with the Crime entity.
7. Weather
- Attributes: weather_id, date, temperature, precipitation, wind_speed, humidity
 - Primary key: weather_id
 - Relationships:
 - One-to-many relationship with Time entity: The weather is recorded at a specific time, so the Weather entity has a one-to-many relationship with the Time entity.
8. Neighborhood
- Attributes: neighborhood_id, name, location_id
 - Primary key: neighborhood_id
 - Foreign key: location_id (referring to the Location entity)
 - Relationships:
 - One-to-many relationship with Location entity: A neighborhood can have multiple locations, so the Neighborhood entity
9. Crime Type
- Attributes: type_id, crime_type
 - Primary key: type_id
 - Relationships:
 - One-to-many relationship with Crime entity: A crime can belong to a specific crime type, so the Crime Type entity has a one-to-many relationship with the Crime entity.
10. Crime Report
- Description: Represents a report generated by a law enforcement officer about a crime
 - Attributes: Report ID, officer ID, incident number, report date, report time, and report description
 - Primary Key: Report ID
 - Foreign Key: Incident number (to Crime entity) and officer ID (to Officer entity)
 - Relationship: One-to-one relationship with Crime and Officer entities
11. Weather Category

- Attributes: category_id, category_name
- Primary key: category_id
- Relationships:
 - One-to-many relationship with Weather entity: The weather can be classified into different categories (e.g., sunny, rainy), so the Weather Category entity has a one-to-many relationship with the Weather entity.

12. Weather Impact

- Attributes: impact_id, impact_description
- Primary key: impact_id
- Relationships:
 - Many-to-many relationship with Crime entity and Weather Category entity: The weather can have an impact on crime, so the Weather Impact entity has a many-to-many relationship with both the Crime entity and Weather Category entity. This relationship would require a junction table that would contain the foreign keys of the Crime entity, Weather Category entity, and Weather Impact entity.

13. Community

- Attributes: community_id, community_name, population, Location_id
- Primary key: community_id
- Relationships:
 - One-to-many relationship with Location entity: A community can have multiple locations within its boundaries, so the Community entity has a one-to-many relationship with the Location entity. The foreign key would be location_id (referring to the Location entity) in the Location entity.