DBMS MINI PROJECT
TOPIC: CRIME DATA ANALYSIS SYSTEM

TEAM MEMBERS:

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ABSTRACT :

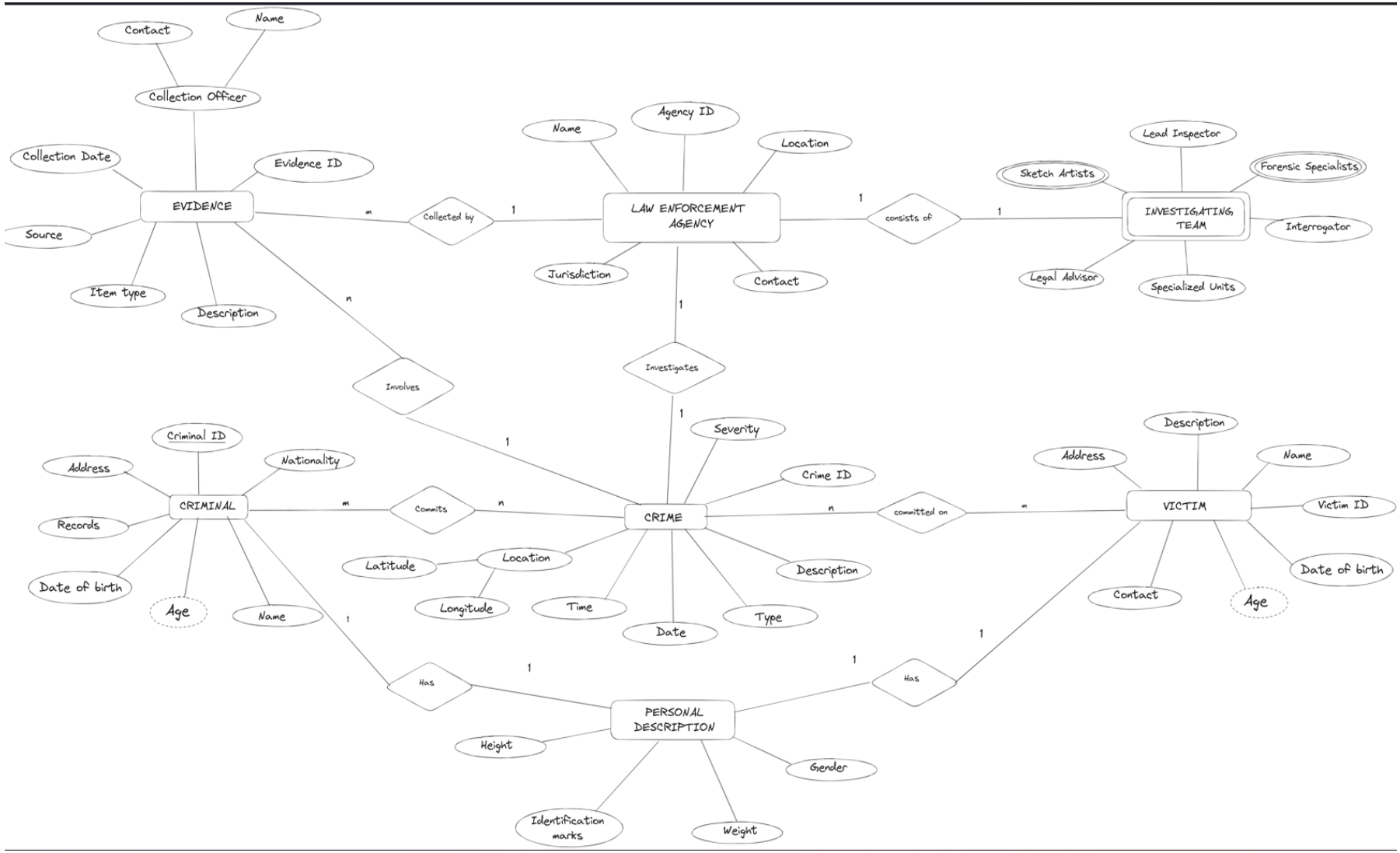
This project is an extensive database and analysis system designed to collect, manage and analyze crime-related information. It serves the purpose of providing law enforcement agencies, researchers and general users with the means to access and analyze crime data effectively.

The database schema accurately models the relationship between 7 entities (crime, criminal, victim, evidence, law enforcement agency, investigating team and personal description) which increases the efficiency of collection, integration and storage of diverse crime data. The interface is user-friendly allowing stakeholders to interact with the data and access analytical insights. We also provide users with tools to visualize crime data trends, hotspots and demographic patterns.

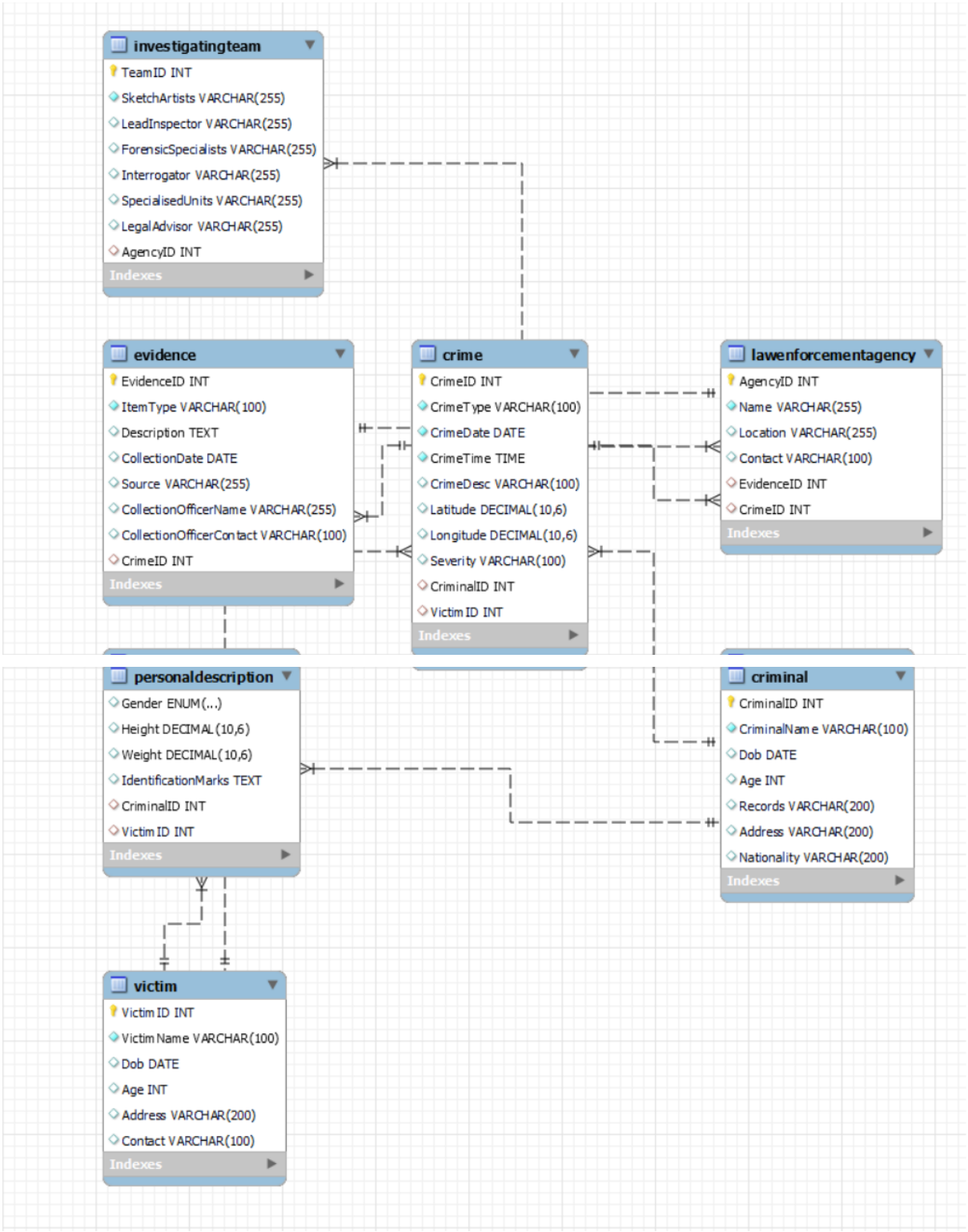
This project provides law enforcement agencies and researchers with the tools and insights necessary to enhance crime prevention, investigation, and policy development. It empowers stakeholders to make data-driven decisions, allocate resources efficiently, and improve public safety.

This project serves as a valuable resource in addressing the complex challenges related to crime analysis and provides a foundation for evidence-based policymaking and law enforcement strategies.

E-R DIAGRAM:


Contact
Name
Collection Officer
Collection Date
Evidence ID
EVIDENCE
Source
Item type
Description
m
Collected by
1
Name
Agency ID
Location
LAW ENFORCEMENT AGENCY
Jurisdiction
Contact
1
consists of
1
Lead Inspector
Sketch Artists
Forensic Specialists
INVESTIGATING TEAM
Interrogator
Legal Advisor
Specialized Units
n
Involves
1
Investigates
1
Criminal ID
Address
Nationality
CRIMINAL
Records
Date of birth
Age
Name
m
Commits
n
Severity
Crime ID
CRIME
Latitude
Location
Longitude
Time
Date
Type
Description
n
committed on
m
Description
Address
Name
VICTIM
Victim ID
Date of birth
Contact
Age
1
Has
1
1
Has
1
PERSONAL DESCRIPTION
Height
Gender
Identification marks
Weight

RELATIONAL SCHEMA DIAGRAM:



USER REQUIREMENT SPECIFICATION:

- **Data Collection and Management**: This system allows users to input and store crime data, including details of criminals, victims, law enforcement agencies, crimes, evidence, and locations. Users will be able to update, edit, or delete existing data records.
- **Data Analysis**: Users shall be able to perform complex queries to retrieve specific crime data based on various criteria, such as date, location, crime type, and severity. The system shall provide statistical analysis tools to generate crime reports, including crime rates, trends, and demographic insights. The system shall support geospatial analysis to identify crime hotspots based on location.
- **User Interface**: The system shall have an intuitive and user-friendly web-based interface accessible from modern web browsers. Users shall be able to customize dashboard views, save queries, and export reports.
- **Security**: The system shall implement user authentication and authorization mechanisms to ensure data security. Sensitive information, such as victim identities, shall be anonymized or obfuscated to protect privacy.
- **Scalability**: The system shall be designed to accommodate future data growth and increased user loads.

Software Requirements:

An operating system which has mysql and python on it can be used for this project.

Extra tools/modules used:

- Database design tool - mysql
- Data analysis tools and modules - Python libraries like Pandas, NumPy and Matplotlib
- Web development framework - Flask to connect Python with the web page

TABLE CREATION:

```
mysql> use crimedb;
Database changed
mysql> show tables;
+----------------------+
| Tables_in_crimedb    |
+----------------------+
| crime                |
| criminal             |
| evidence             |
| investigatingteam    |
| lawenforcementagency |
| personaldescription  |
| victim               |
+----------------------+
7 rows in set (0.00 sec)
```

```sql
CREATE TABLE Crime (
    CrimeID INT PRIMARY KEY AUTO_INCREMENT,
    CrimeType VARCHAR(100) NOT NULL,
    CrimeDate DATE NOT NULL,
    CrimeTime TIME NOT NULL,
    CrimeDesc VARCHAR(100),
    Latitude DECIMAL(10, 6),
    Longitude DECIMAL(10, 6),
    Severity VARCHAR(100),
    CriminalID INT,
    VictimID INT,
    FOREIGN KEY (CriminalID) REFERENCES Criminal(CriminalID),
    FOREIGN KEY (VictimID) REFERENCES Victim(VictimID)
);
```

```
mysql> desc crime;
+------------+---------------+------+-----+---------+----------------+
| Field      | Type          | Null | Key | Default | Extra          |
+------------+---------------+------+-----+---------+----------------+
| CrimeID    | int           | NO   | PRI | NULL    | auto_increment |
| CrimeType  | varchar(100)  | NO   |     | NULL    |                |
| CrimeDate  | date          | NO   |     | NULL    |                |
| CrimeTime  | time          | NO   |     | NULL    |                |
| CrimeDesc  | varchar(100)  | YES  |     | NULL    |                |
| Latitude   | decimal(10,6) | YES  |     | NULL    |                |
| Longitude  | decimal(10,6) | YES  |     | NULL    |                |
| Severity   | varchar(100)  | YES  |     | NULL    |                |
| CriminalID | int           | YES  | MUL | NULL    |                |
| VictimID   | int           | YES  | MUL | NULL    |                |
+------------+---------------+------+-----+---------+----------------+
10 rows in set (0.00 sec)
```

```sql
CREATE TABLE Criminal (
    CriminalID INT PRIMARY KEY AUTO_INCREMENT,
    CriminalName VARCHAR(100) NOT NULL,
    Dob DATE,
    Age INT,
    Records VARCHAR(200),
    Address VARCHAR(200),
    Nationality VARCHAR(200)
);
```

```
mysql> desc criminal;
+--------------+--------------+------+-----+---------+----------------+
| Field        | Type         | Null | Key | Default | Extra          |
+--------------+--------------+------+-----+---------+----------------+
| CriminalID   | int          | NO   | PRI | NULL    | auto_increment |
| CriminalName | varchar(100) | NO   |     | NULL    |                |
| Dob          | date         | YES  |     | NULL    |                |
| Age          | int          | YES  |     | NULL    |                |
| Records      | varchar(200) | YES  |     | NULL    |                |
| Address      | varchar(200) | YES  |     | NULL    |                |
| Nationality  | varchar(200) | YES  |     | NULL    |                |
+--------------+--------------+------+-----+---------+----------------+
7 rows in set (0.00 sec)
```

```sql
CREATE TABLE Evidence (
    EvidenceID INT PRIMARY KEY AUTO_INCREMENT,
    ItemType VARCHAR(100) NOT NULL,
    Description TEXT,
    CollectionDate DATE,
    Source VARCHAR(255),
    CollectionOfficerName VARCHAR(255),
    CollectionOfficerContact VARCHAR(100),
    CrimeID INT,
    FOREIGN KEY (CrimeID) REFERENCES Crime(CrimeID)
);
```

```
mysql> desc evidence;
+--------------------------+--------------+------+-----+---------+----------------+
| Field                    | Type         | Null | Key | Default | Extra          |
+--------------------------+--------------+------+-----+---------+----------------+
| EvidenceID               | int          | NO   | PRI | NULL    | auto_increment |
| ItemType                 | varchar(100) | NO   |     | NULL    |                |
| Description              | text         | YES  |     | NULL    |                |
| CollectionDate           | date         | YES  |     | NULL    |                |
| Source                   | varchar(255) | YES  |     | NULL    |                |
| CollectionOfficerName    | varchar(255) | YES  |     | NULL    |                |
| CollectionOfficerContact | varchar(100) | YES  |     | NULL    |                |
| CrimeID                  | int          | YES  | MUL | NULL    |                |
+--------------------------+--------------+------+-----+---------+----------------+
8 rows in set (0.00 sec)
```

```sql
CREATE TABLE InvestigatingTeam (
    TeamID INT PRIMARY KEY AUTO_INCREMENT,
    SketchArtists VARCHAR(255) NOT NULL,
    LeadInspector VARCHAR(255),
    ForensicSpecialists VARCHAR(255),
    Interrogator VARCHAR(255),
    SpecialisedUnits VARCHAR(255),
    LegalAdvisor VARCHAR(255),
    AgencyID INT,
    FOREIGN KEY (AgencyID) REFERENCES LawEnforcementAgency(AgencyID)
);
```

```
mysql> desc investigatingteam;
+--------------------+-------------+------+-----+---------+----------------+
| Field              | Type        | Null | Key | Default | Extra          |
+--------------------+-------------+------+-----+---------+----------------+
| TeamID             | int         | NO   | PRI | NULL    | auto_increment |
| SketchArtists      | varchar(255)| NO   |     | NULL    |                |
| LeadInspector      | varchar(255)| YES  |     | NULL    |                |
| ForensicSpecialists| varchar(255)| YES  |     | NULL    |                |
| Interrogator       | varchar(255)| YES  |     | NULL    |                |
| SpecialisedUnits   | varchar(255)| YES  |     | NULL    |                |
| LegalAdvisor       | varchar(255)| YES  |     | NULL    |                |
| AgencyID           | int         | YES  | MUL | NULL    |                |
+--------------------+-------------+------+-----+---------+----------------+
8 rows in set (0.00 sec)
```

```sql
CREATE TABLE LawEnforcementAgency (
    AgencyID INT PRIMARY KEY,
    Name VARCHAR(255) NOT NULL,
    Location VARCHAR(255),
    Contact VARCHAR(100),
    EvidenceID INT,
    CrimeID INT,
    FOREIGN KEY (EvidenceID) REFERENCES Evidence(EvidenceID),
    FOREIGN KEY (CrimeID) REFERENCES Crime(CrimeID)
);
```

```
mysql> desc lawenforcementagency;
+------------+--------------+------+-----+---------+-------+
| Field      | Type         | Null | Key | Default | Extra |
+------------+--------------+------+-----+---------+-------+
| AgencyID   | int          | NO   | PRI | NULL    |       |
| Name       | varchar(255) | NO   |     | NULL    |       |
| Location   | varchar(255) | YES  |     | NULL    |       |
| Contact    | varchar(100) | YES  |     | NULL    |       |
| EvidenceID | int          | YES  | MUL | NULL    |       |
| CrimeID    | int          | YES  | MUL | NULL    |       |
+------------+--------------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

```sql
CREATE TABLE PersonalDescription (
    Gender ENUM('Male', 'Female', 'Other'),
    Height DECIMAL(10, 6),
    Weight DECIMAL(10, 6),
    IdentificationMarks TEXT,
    CriminalID INT,
    VictimID INT,
    FOREIGN KEY (CriminalID) REFERENCES Criminal(CriminalID),
    FOREIGN KEY (VictimID) REFERENCES Victim(VictimID)
);
```

```
mysql> desc personaldescription;
+--------------------+------------------------------+------+-----+---------+-------+
| Field              | Type                         | Null | Key | Default | Extra |
+--------------------+------------------------------+------+-----+---------+-------+
| Gender             | enum('Male','Female','Other') | YES  |     | NULL    |       |
| Height             | decimal(10,6)                | YES  |     | NULL    |       |
| Weight             | decimal(10,6)                | YES  |     | NULL    |       |
| IdentificationMarks | text                         | YES  |     | NULL    |       |
| CriminalID         | int                          | YES  | MUL | NULL    |       |
| VictimID           | int                          | YES  | MUL | NULL    |       |
+--------------------+------------------------------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

```sql
CREATE TABLE Victim (
    VictimID INT PRIMARY KEY AUTO_INCREMENT,
    VictimName VARCHAR(100) NOT NULL,
    Dob DATE,
    Age INT,
    Address VARCHAR(200),
    Contact VARCHAR(100),
    UNIQUE (VictimName)
);
```

```
mysql> desc victim;
+------------+--------------+------+-----+---------+----------------+
| Field      | Type         | Null | Key | Default | Extra          |
+------------+--------------+------+-----+---------+----------------+
| VictimID   | int          | NO   | PRI | NULL    | auto_increment |
| VictimName | varchar(100) | NO   | UNI | NULL    |                |
| Dob        | date         | YES  |     | NULL    |                |
| Age        | int          | YES  |     | NULL    |                |
| Address    | varchar(200) | YES  |     | NULL    |                |
| Contact    | varchar(100) | YES  |     | NULL    |                |
+------------+--------------+------+-----+---------+----------------+
6 rows in set (0.00 sec)
```

TUPLES:

```sql
INSERT INTO Criminal (CriminalName, Dob, Age, Records, Address, Nationality)
VALUES
    ('Rahul Sharma', '1990-05-15', 31, 'Multiple thefts', '123 Main St, Bangalore', 'Indian'),
    ('Priya Singh', '1985-12-02', 36, 'Assault and robbery', '456 Oak Ave, Bangalore', 'Indian'),
    ('Rajesh Kumar', '1982-07-20', 39, 'Burglary', '789 Pine Rd, Bangalore', 'Indian'),
    ('Amit Patel', '1995-02-10', 26, 'Drug possession', '101 Elm Ln, Bangalore', 'Indian'),
    ('Neha Verma', '1988-09-28', 33, 'Embezzlement', '202 Cedar St, Bangalore', 'Indian');

INSERT INTO Victim (VictimName, Dob, Age, Address, Contact)
VALUES
    ('Meera Gupta', '1980-03-08', 41, '321 Maple St, Bangalore', '+91 9876543210'),
    ('Suresh Menon', '1992-06-25', 29, '543 Birch Ave, Bangalore', '+91 9876543211'),
    ('Geeta Singh', '1999-11-12', 22, '765 Redwood Rd, Bangalore', '+91 9876543212'),
    ('Sanjay Kapoor', '1975-08-18', 46, '876 Willow Ln, Bangalore', '+91 9876543213'),
    ('Pooja Sharma', '1991-12-30', 30, '234 Fir Dr, Bangalore', '+91 9876543214');
```

```sql
INSERT INTO InvestigatingTeam (SketchArtists, LeadInspector, ForensicSpecialists, Interrogator, SpecialisedUnits, LegalAdvisor, AgencyID)
VALUES
    ('John Doe, Jane Smith', 'Inspector Anderson', 'Dr. Brown, Dr. Patel', 'Officer Garcia', 'Narcotics Unit, Cybercrime Unit', 'Lawyer Johns
    ('Mike White, Lisa Johnson', 'Inspector Wilson', 'Dr. Lee', 'Officer Martinez', 'SWAT Team, K-9 Unit', 'Lawyer Davis', 2),
    ('Sarah Adams, Chris Baker', 'Inspector Clark', 'Dr. Gupta', 'Officer Miller', 'Financial Crimes Unit', 'Lawyer Williams', 3),
    ('David Martin, Laura Turner', 'Inspector Harris', 'Dr. Walker', 'Officer Jackson', 'Homicide Unit', 'Lawyer Brown', 4),
    ('Emily Turner, Mark Wilson', 'Inspector Rodriguez', 'Dr. Patel', 'Officer Davis', 'Cybercrime Unit', 'Lawyer Anderson', 5);
```

```sql
INSERT INTO Crime (CrimeType, CrimeDate, CrimeTime, CrimeDesc, Latitude, Longitude, Severity, CriminalID, VictimID)
VALUES
    ('Theft', '2023-08-10', '15:30:00', 'Shoplifting', 12.9716, 77.5946, 'Low', 1, 1),
    ('Assault', '2023-08-11', '18:45:00', 'Street Fight', 12.9276, 77.6271, 'Medium', 2, 2),
    ('Burglary', '2023-08-12', '02:15:00', 'Residential Break-in', 12.9352, 77.6245, 'High', 3, 3),
    ('Drug Possession', '2023-08-13', '20:00:00', 'Possession of Narcotics', 12.9667, 77.5953, 'Medium', 4, 4),
    ('Embezzlement', '2023-08-14', '10:30:00', 'Financial Fraud', 12.9227, 77.5905, 'High', 5, 5);
```

```sql
INSERT INTO PersonalDescription (Gender, Height, Weight, IdentificationMarks, CriminalID, VictimID)
VALUES
    ('Male', 180.0, 75.0, 'Tattoo on right arm', 1, 1),
    ('Female', 165.0, 55.0, 'Scar on left cheek', 2, 2),
    ('Male', 175.0, 80.0, 'Missing left index finger', 3, 3),
    ('Male', 172.0, 70.0, 'Pierced ears', 4, 4),
    ('Female', 160.0, 60.0, 'Birthmark on neck', 5, 5);
```

```sql
INSERT INTO Evidence (ItemType, Description, CollectionDate, Source, CollectionOfficerName, CollectionOfficerContact, CrimeID)
VALUES
    ('Fingerprint', 'Fingerprint on glass window', '2023-08-10', 'Crime Scene', 'Officer Smith', '+91 9876543220', 1),
    ('Blood Sample', 'Bloodstains on victim''s clothing', '2023-08-11', 'Hospital', 'Officer Johnson', '+91 9876543221', 2),
    ('Tool', 'Lock-picking tools found at crime scene', '2023-08-12', 'Crime Scene', 'Officer Brown', '+91 9876543222', 3),
    ('Drugs', 'Bag of narcotics seized from suspect', '2023-08-13', 'Crime Scene', 'Officer Wilson', '+91 9876543223', 4),
    ('Financial Records', 'Embezzlement evidence: fraudulent documents', '2023-08-14', 'Company Office', 'Officer Davis', '+91 9876543224', 5)
```

```sql
INSERT INTO LawEnforcementAgency (AgencyID, Name, Location, Contact, EvidenceID, CrimeID)
VALUES
    (1, 'Bangalore City Police', 'Brigade Road, Bangalore', '+91 80 12345678', 1, 1),
    (2, 'Bangalore Metropolitan Police', 'MG Road, Bangalore', '+91 80 23456789', 2, 2),
    (3, 'Karnataka State Police', 'Vidhana Soudha, Bangalore', '+91 80 34567890', 3, 3),
    (4, 'Central Bureau of Investigation (CBI)', 'Indiranagar, Bangalore', '+91 80 45678901', 4, 4),
    (5, 'Enforcement Directorate', 'Richmond Road, Bangalore', '+91 80 56789012', 5, 5);
```

```
mysql> select * from crime;
+---------+----------------+------------+-----------+-----------------------+----------+-----------+----------+------------+----------+
| CrimeID | CrimeType      | CrimeDate  | CrimeTime | CrimeDesc             | Latitude | Longitude | Severity | CriminalID | VictimID |
+---------+----------------+------------+-----------+-----------------------+----------+-----------+----------+------------+----------+
|       1 | Theft          | 2023-08-10 | 15:30:00  | Shoplifting           | 12.971600 | 77.594600 | Low      |          1 |        1 |
|       2 | Assault        | 2023-08-11 | 18:45:00  | Street Fight          | 12.927600 | 77.627100 | Medium   |          2 |        2 |
|       3 | Burglary       | 2023-08-12 | 02:15:00  | Residential Break-in  | 12.935200 | 77.624500 | High     |          3 |        3 |
|       4 | Drug Possession | 2023-08-13 | 20:00:00  | Possession of Narcotics | 12.966700 | 77.595300 | Medium   |          4 |        4 |
|       5 | Embezzlement   | 2023-08-14 | 10:30:00  | Financial Fraud       | 12.922700 | 77.590500 | High     |          5 |        5 |
+---------+----------------+------------+-----------+-----------------------+----------+-----------+----------+------------+----------+
5 rows in set (0.00 sec)
```

```
mysql> select * from criminal;
+-------------+--------------+------------+------+---------------------+--------------------------+-------------+
| CriminalID | CriminalName | Dob        | Age  | Records             | Address                  | Nationality |
+-------------+--------------+------------+------+---------------------+--------------------------+-------------+
|           1 | Rahul Sharma | 1990-05-15 |   31 | Multiple thefts     | 123 Main St, Bangalore   | Indian      |
|           2 | Priya Singh  | 1985-12-02 |   36 | Assault and robbery | 456 Oak Ave, Bangalore   | Indian      |
|           3 | Rajesh Kumar | 1982-07-20 |   39 | Burglary            | 789 Pine Rd, Bangalore   | Indian      |
|           4 | Amit Patel   | 1995-02-10 |   26 | Drug possession     | 101 Elm Ln, Bangalore    | Indian      |
|           5 | Neha Verma   | 1988-09-28 |   33 | Embezzlement        | 202 Cedar St, Bangalore  | Indian      |
+-------------+--------------+------------+------+---------------------+--------------------------+-------------+
5 rows in set (0.00 sec)
```

```
mysql> select * from victim;
+----------+----------------+-------------+-------+-----------------------------+-----------------+
| VictimID | VictimName     | Dob         | Age   | Address                     | Contact         |
+----------+----------------+-------------+-------+-----------------------------+-----------------+
|        1 | Meera Gupta    | 1980-03-08 |    41 | 321 Maple St, Bangalore     | +91 9876543210 |
|        2 | Suresh Menon   | 1992-06-25 |    29 | 543 Birch Ave, Bangalore    | +91 9876543211 |
|        3 | Geeta Singh    | 1999-11-12 |    22 | 765 Redwood Rd, Bangalore   | +91 9876543212 |
|        4 | Sanjay Kapoor  | 1975-08-18 |    46 | 876 Willow Ln, Bangalore    | +91 9876543213 |
|        5 | Pooja Sharma   | 1991-12-30 |    30 | 234 Fir Dr, Bangalore       | +91 9876543214 |
+----------+----------------+-------------+-------+-----------------------------+-----------------+
5 rows in set (0.00 sec)
```

```
mysql> select * from personaldescription;
+--------+-------------+------------+-----------------------------+-------------+-----------+
| Gender | Height      | Weight     | IdentificationMarks         | CriminalID | VictimID |
+--------+-------------+------------+-----------------------------+-------------+-----------+
| Male   | 180.000000 | 75.000000 | Tattoo on right arm         |           1 |         1 |
| Female | 165.000000 | 55.000000 | Scar on left cheek          |           2 |         2 |
| Male   | 175.000000 | 80.000000 | Missing left index finger |           3 |         3 |
| Male   | 172.000000 | 70.000000 | Pierced ears                |           4 |         4 |
| Female | 160.000000 | 60.000000 | Birthmark on neck           |           5 |         5 |
+--------+-------------+------------+-----------------------------+-------------+-----------+
5 rows in set (0.00 sec)
```

```
mysql> select * from evidence;
+------------+-----------------+-----------------------------------------+----------------+---------------+---------------------+--------------------------+---------+
| EvidenceID | ItemType        | Description                             | CollectionDate | Source        | CollectionOfficerName | CollectionOfficerContact | CrimeID |
+------------+-----------------+-----------------------------------------+----------------+---------------+---------------------+--------------------------+---------+
|          1 | Fingerprint     | Fingerprint on glass window             | 2023-08-10     | Crime Scene   | Officer Smith       | +91 9876543220           |       1 |
|          2 | Blood Sample    | Bloodstains on victim's clothing        | 2023-08-11     | Hospital      | Officer Johnson     | +91 9876543221           |       2 |
|          3 | Tool            | Lock-picking tools found at crime scene | 2023-08-12     | Crime Scene   | Officer Brown       | +91 9876543222           |       3 |
|          4 | Drugs           | Bag of narcotics seized from suspect    | 2023-08-13     | Crime Scene   | Officer Wilson      | +91 9876543223           |       4 |
|          5 | Financial Records | Embezzlement evidence: fraudulent documents | 2023-08-14 | Company Office | Officer Davis      | +91 9876543224           |       5 |
+------------+-----------------+-----------------------------------------+----------------+---------------+---------------------+--------------------------+---------+
5 rows in set (0.00 sec)
```

```
mysql> select * from lawenforcementagency;
+----------+---------------------------------------+---------------------------+-----------------+------------+---------+
| AgencyID | Name                                  | Location                  | Contact         | EvidenceID | CrimeID |
+----------+---------------------------------------+---------------------------+-----------------+------------+---------+
|        1 | Bangalore City Police                 | Brigade Road, Bangalore   | +91 80 12345678 |          1 |       1 |
|        2 | Bangalore Metropolitan Police         | MG Road, Bangalore        | +91 80 23456789 |          2 |       2 |
|        3 | Karnataka State Police                | Vidhana Soudha, Bangalore | +91 80 34567890 |          3 |       3 |
|        4 | Central Bureau of Investigation (CBI) | Indiranagar, Bangalore    | +91 80 45678901 |          4 |       4 |
|        5 | Enforcement Directorate               | Richmond Road, Bangalore  | +91 80 56789012 |          5 |       5 |
+----------+---------------------------------------+---------------------------+-----------------+------------+---------+
5 rows in set (0.00 sec)
```

```
mysql> select * from investigatingteam;
+--------+--------------------------+--------------------+---------------------+-----------------+-------------------------------+-----------------+----------+
| TeamID | SketchArtists            | LeadInspector      | ForensicSpecialists | Interrogator    | SpecialisedUnits              | LegalAdvisor    | AgencyID |
+--------+--------------------------+--------------------+---------------------+-----------------+-------------------------------+-----------------+----------+
|      1 | John Doe, Jane Smith     | Inspector Anderson | Dr. Brown, Dr. Patel | Officer Garcia  | Narcotics Unit, Cybercrime Unit | Lawyer Johnson |        1 |
|      2 | Mike White, Lisa Johnson | Inspector Wilson   | Dr. Lee             | Officer Martinez | SWAT Team, K-9 Unit           | Lawyer Davis    |        2 |
|      3 | Sarah Adams, Chris Baker | Inspector Clark    | Dr. Gupta           | Officer Miller  | Financial Crimes Unit         | Lawyer Williams |        3 |
|      4 | David Martin, Laura Turner | Inspector Harris | Dr. Walker          | Officer Jackson | Homicide Unit                 | Lawyer Brown    |        4 |
|      5 | Emily Turner, Mark Wilson | Inspector Rodriguez | Dr. Patel          | Officer Davis   | Cybercrime Unit               | Lawyer Anderson |        5 |
+--------+--------------------------+--------------------+---------------------+-----------------+-------------------------------+-----------------+----------+
5 rows in set (0.00 sec)
```

WORK COMPLETED TILL 8/10:

- E-R Diagram
- Relational Schema
- Creation of database
- Creation of tables
- Creation of tuples and relations