

DBMS PROJECT REPORT

PROJECT NAME : CRIMINAL DATABASE MANAGEMENT SYSTEM

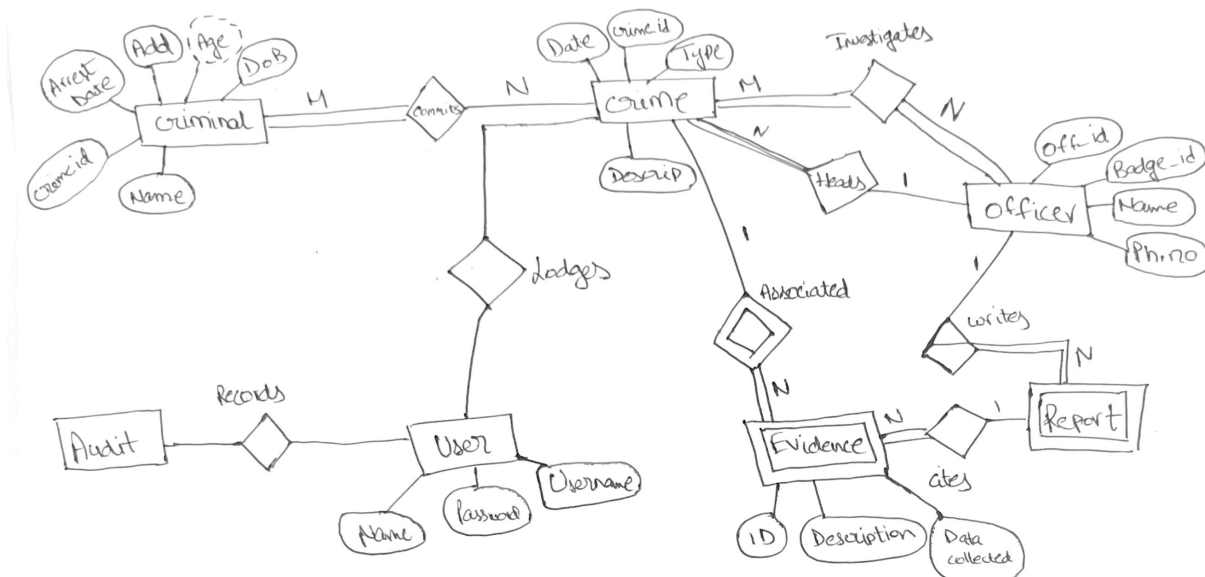
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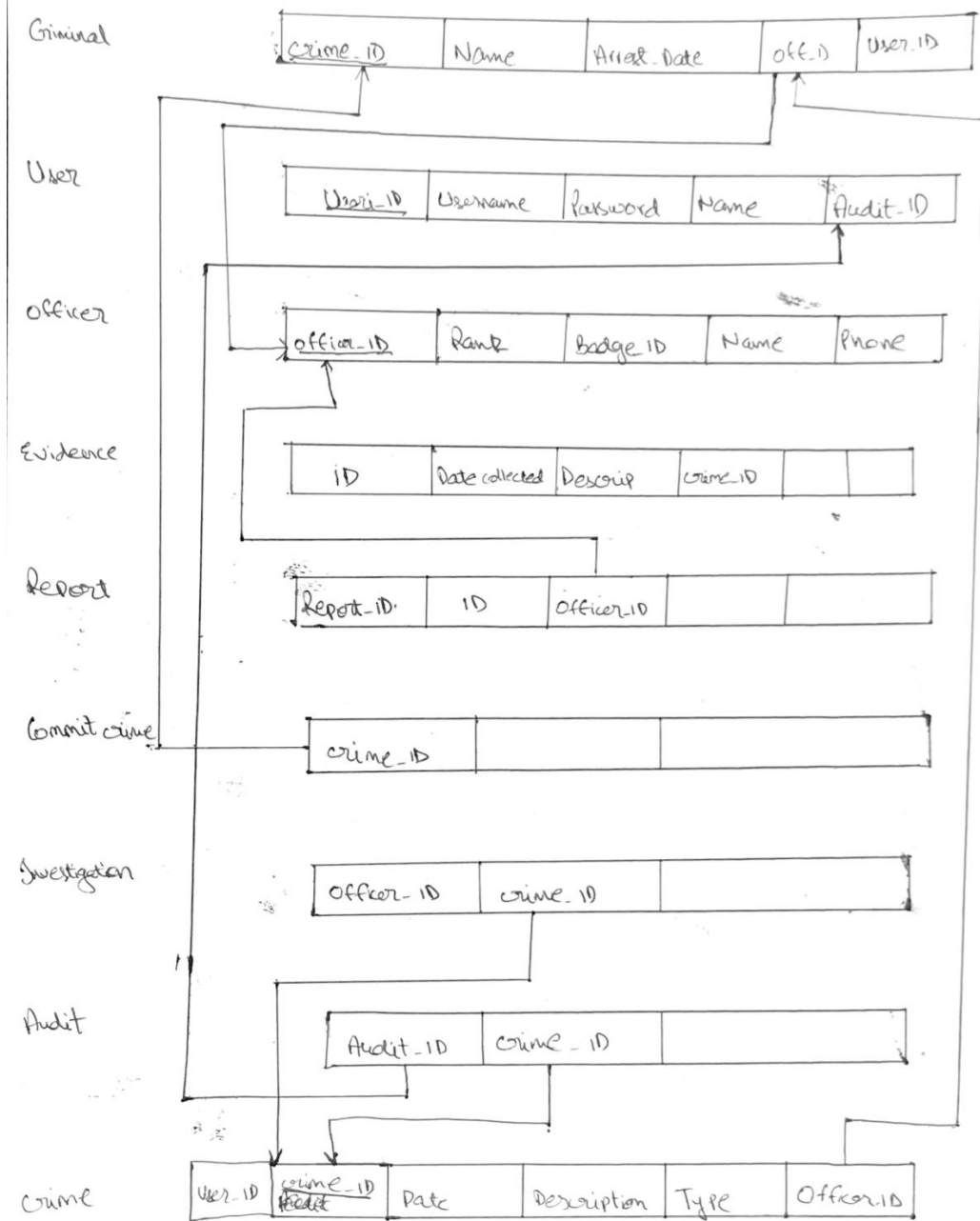
OVERVIEW:

The **Criminal Database Management System (CDMS)** is a software solution designed to efficiently manage and track information related to criminal records, investigations, and case management. The system serves as a centralized platform for storing and managing criminal data while enhancing collaboration among law enforcement officers, head officers, and users.

ER DIAGRAM:



RELATION SCHEMA:



DDL QUERIES:

TABLE CREATION QUERY:

```
3
4 CREATE TABLE Criminal (
5     criminal_ID INT PRIMARY KEY auto_increment,
6     crime_ID INT,
7     Name VARCHAR(100),
8     Date_of_Birth DATE,
9     Status ENUM('Incarcerated', 'Free'),
10    Gender ENUM('Male', 'Female'),
11    Height DECIMAL(4,1),
12    Weight DECIMAL(4,1),
13    Eye_Color VARCHAR(10),
14    Hair_Color VARCHAR(10),
15    Skin_Tone ENUM('Dark', 'Light', 'Medium'),
16    Build VARCHAR(50),
17    Tattoos ENUM('Yes', 'No'),
18    No_of_Tattoos INT,
19    Blood_Type ENUM('A+', 'A-', 'B+', 'B-', 'AB+', 'AB-', 'O+', 'O-'),
20    Crime_Category VARCHAR(255),
21    Convictions INT DEFAULT 0,
22    Last_Known_Address TEXT,
23    Warrant_Status ENUM('Active', 'Inactive'),
24    Phone_Number VARCHAR(50),
25    Known_Email_Address VARCHAR(100)
26 );
```

```
27
28 CREATE TABLE Crime (
29     crime_ID INT PRIMARY KEY auto_increment,
30     officer_ID INT,
31     user_ID INT,
32     Type_of_Crime ENUM (
33         'Violent Crime',
34         'Property Crime',
35         'White-Collar Crime',
36         'Organized Crime',
37         'Cyber Crime',
38         'Drug-Related Crime',
39         'Public Order Crime',
40         'Environmental Crime',
41         'Traffic Violations',
42         'Terrorism and National Security Crimes',
43         'Hate Crime',
44         'Other Crime'
45     ),
46     Exact_Crime VARCHAR(100),
47     Date_of_Crime DATE,
48     Time_of_Crime TIME,
49     Location VARCHAR(255),
50     Description TEXT,
51     Victim_Name VARCHAR(255),
52     Victim_Contact VARCHAR(100),
53     Reported_By VARCHAR(100),
54     Arrest_Date DATE,
55     Case_Status ENUM('Under Investigation', 'Closed', 'Solved')
56 );
```

```
59 CREATE TABLE Officer (  
60     officer_id INT PRIMARY KEY auto_increment,  
61     ranking VARCHAR(50),  
62     badge_number VARCHAR(50) UNIQUE,  
63     status enum('Active', 'InActive', 'On Leave')  
64 );  
65  
66  
67 CREATE TABLE User (  
68     user_id INT PRIMARY KEY AUTO_INCREMENT,  
69     username VARCHAR(50) UNIQUE NOT NULL,  
70     password VARCHAR(255) NOT NULL,  
71     email VARCHAR(255) UNIQUE NOT NULL,  
72     role ENUM('HeadOfficer', 'Officer', 'User') NOT NULL,  
73     status ENUM('Active', 'Inactive', 'Suspended') DEFAULT 'Active'  
74 );  
75  
76 CREATE TABLE UserProfile (  
77     user_id INT PRIMARY KEY,  
78     first_name VARCHAR(100) NOT NULL,  
79     last_name VARCHAR(100) NOT NULL,  
80     phone_number VARCHAR(15),  
81     profile_picture VARCHAR(255),  
82     address VARCHAR(255),  
83     date_of_birth DATE,  
84     FOREIGN KEY (user_id) REFERENCES User(user_id)  
85 );  
86  
87  
88 CREATE TABLE AuditLog (  
89     log_id INT PRIMARY KEY AUTO_INCREMENT,  
90     user_id INT,  
91     action_type VARCHAR(50),  
92     action_timestamp DATETIME,  
93     status ENUM('Success', 'Failure'),  
94     details TEXT,  
95     foreign key (user_id) references User(user_id)
```

```

97
98 CREATE TABLE Report (
99     report_id INT PRIMARY KEY AUTO_INCREMENT,
100     officer_id INT,
101     details TEXT,
102     report_date DATETIME DEFAULT CURRENT_TIMESTAMP,
103     summary TEXT,
104     foreign key (officer_id) references Officer(officer_id)
105 );
106
107 CREATE TABLE Evidence (
108     evidence_id INT PRIMARY KEY AUTO_INCREMENT,
109     crime_id INT,
110     report_id INT,
111     officer_id INT,
112     evidence_type ENUM('Physical', 'Photographic', 'Video', 'Audio', 'Testimonial',
113     collection_date DATETIME DEFAULT CURRENT_TIMESTAMP,
114     storage_location VARCHAR(255),
115     description TEXT,
116     foreign key (crime_id) references Crime(Crime_ID),
117     foreign key (report_id) references Report(Report_ID)
118 );
119
120
121 CREATE TABLE Commits_Crime (
122     crime_id INT,
123     criminal_id INT,
124     foreign key (crime_id) references Crime(crime_id),
125     foreign key (criminal_id) references Criminal(criminal_id)
126 );
127
128 CREATE TABLE Investigates (
129     officer_ID INT,
130     crime_ID INT,
131     foreign key (crime_id) references Crime(crime_id),
132     foreign key (officer_id) references Officer(officer_id)
133 );
134

```

DML QUERIES:

1.DATA RETERIVAL QUERIES

SELECT LAST_INSERT_ID() AS inserted_id; END;

Description:

This statement retrieves the id of the last record inserted into a table during the current session using the LAST_INSERT_ID() function and assigns it the alias inserted_id for reference. It is typically used in stored procedures to capture the auto-incremented primary key of the newly inserted row.

5.INSERT QUERIES:

```
INSERT INTO User (user_id, username, password, email, role, status)
VALUES
(1, 'john_doe', 'password123', 'john.doe@example.com', 'HeadOfficer', 'Active'),
(2, 'jane_smith', 'password456', 'jane.smith@example.com', 'Officer', 'Active'),
(3, 'alice_jones', 'password789', 'alice.jones@example.com', 'User', 'Active'),
(4, 'bob_brown', 'password012', 'bob.brown@example.com', 'Officer', 'Inactive'),
(5, 'charlie_white', 'password345', 'charlie.white@example.com', 'User', 'Active'),
(6, 'david_black', 'password678', 'david.black@example.com', 'Officer', 'Active'),
(7, 'emily_green', 'password901', 'emily.green@example.com', 'User', 'Active'),
(8, 'frank_blue', 'password234', 'frank.blue@example.com', 'Officer', 'Inactive'),
(9, 'grace_red', 'password567', 'grace.red@example.com', 'User', 'Active'),
(10, 'hannah_yellow', 'password890', 'hannah.yellow@example.com', 'Officer', 'Active'),
(11, 'ian_purple', 'password123', 'ian.purple@example.com', 'HeadOfficer', 'Active'),
(12, 'lucy_brown', 'password1234', 'lucy.brown@example.com', 'Officer', 'Active'),
(13, 'jack_black', 'password5678', 'jack.black@example.com', 'User', 'Active'),
(14, 'olivia_white', 'password9012', 'olivia.white@example.com', 'Officer', 'Inactive'),
(15, 'mike_green', 'password3456', 'mike.green@example.com', 'HeadOfficer', 'Active'),
(16, 'susan_gray', 'password7890', 'susan.gray@example.com', 'User', 'Inactive');

INSERT INTO UserProfile (user_id, first_name, last_name, phone_number, profile_picture, address, date_of_birth)
VALUES
(1, 'John', 'Doe', '1234567890', 'profile1.jpg', '123 Main St', '1980-05-15'),
(2, 'Jane', 'Smith', '0987654321', 'profile2.jpg', '456 Elm St', '1990-10-10'),
(3, 'Alice', 'Jones', '5678901234', 'profile3.jpg', '789 Oak St', '1985-08-20'),
(4, 'Bob', 'Brown', '3456789012', 'profile4.jpg', '101 Pine St', '1982-03-12'),
(5, 'Charlie', 'White', '2345678901', 'profile5.jpg', '202 Maple St', '1992-06-25'),
(6, 'David', 'Black', '6789012345', 'profile6.jpg', '303 Cedar St', '1988-07-08'),
(7, 'Emily', 'Green', '7890123456', 'profile7.jpg', '404 Birch St', '1995-09-01'),
(8, 'Frank', 'Blue', '8901234567', 'profile8.jpg', '505 Redwood St', '1980-01-18'),
(9, 'Grace', 'Red', '9012345678', 'profile9.jpg', '606 Fir St', '1991-12-14'),
(10, 'Hannah', 'Yellow', '0123456789', 'profile10.jpg', '707 Spruce St', '1983-11-22'),
(11, 'Ian', 'Purple', '1234987650', 'profile11.jpg', '808 Ash St', '1975-10-30'),
(12, 'Lucy', 'Brown', '3456789012', 'profile12.jpg', '123 Maple Ave', '1994-04-14'),
(13, 'Jack', 'Black', '4567890123', 'profile13.jpg', '456 Birch Blvd', '1992-07-22'),
(14, 'Olivia', 'White', '5678901234', 'profile14.jpg', '789 Oak Drive', '1990-11-03'),
(15, 'Mike', 'Green', '6789012345', 'profile15.jpg', '123 Cedar Lane', '1985-02-19'),
(16, 'Susan', 'Gray', '7890123456', 'profile16.jpg', '321 Pine Rd', '1988-09-15');

INSERT INTO Officer (officer_id, ranking, badge_number, status)
VALUES
(1, 'Sergeant', '1234A', 'Active'),
(2, 'Lieutenant', '5678B', 'Active'),
(3, 'Detective', '9012C', 'On Leave'),
(4, 'Captain', '3456D', 'Active'),
(5, 'Inspector', '7890E', 'Inactive'),
(6, 'Sergeant', '2345F', 'Active'),
(7, 'Lieutenant', '6789G', 'On Leave'),
(8, 'Detective', '0123H', 'Active'),
(9, 'Captain', '4567I', 'Active'),
(10, 'Inspector', '8901J', 'Inactive'),
(11, 'Sergeant', '1357K', 'Active'),
(12, 'Lieutenant', '6789H', 'Active'),
(13, 'Detective', '1234I', 'Inactive'),
(14, 'Sergeant', '2345J', 'Active'),
(15, 'Captain', '3456K', 'On Leave'),
(16, 'Inspector', '4567L', 'Active');
```



```
INSERT INTO Crime (crime_ID, officer_ID, user_ID, Type_of_Crime, Exact_Crime, Date_of_Crime, Time_of_Crime, Location, Description, Victim_Name, Victim_Contact, Reported_By, Arrest_Date, Case_Status)
VALUES
(101, 1, 3, 'Violent Crime', 'Assault', '2023-01-15', '14:30:00', '789 Main St', 'Victim was assaulted with a weapon.', 'Michael Brown', '1234567890', 'Alice Jones', '2023-01-20', 'Solved'),
(102, 2, 2, 'Property Crime', 'Burglary', '2023-02-12', '02:45:00', '456 Elm St', 'Home burglary reported by neighbor.', 'Sarah Green', '0987654321', 'Jane Smith', NULL, 'Under Investigation'),
(103, 3, 4, 'Property Crime', 'Vandalism', '2023-03-10', '18:30:00', '123 Oak St', 'Graffiti on the wall of a store.', 'Jessica White', '2345678901', 'Bob Brown', '2023-03-12', 'Under Investigation'),
(104, 4, 5, 'White-Collar Crime', 'Fraud', '2023-04-25', '10:15:00', '321 Birch St', 'Suspicious transactions involving stolen credit cards.', 'Mark Harris', '3456789012', 'David Black', '2023-05-01', 'Solved'),
(105, 5, 6, 'Drug-Related Crime', 'Possession', '2023-06-05', '23:40:00', '654 Pine St', 'Possession of illegal substances.', 'Rachel Lee', '5678901234', 'Emily Green', NULL, 'Under Investigation'),
(106, 6, 7, 'Violent Crime', 'Assault', '2023-07-20', '01:00:00', '987 Elm St', 'Assault with a weapon reported.', 'Tom Ford', '6789012345', 'Frank Blue', NULL, 'Under Investigation'),
(107, 7, 8, 'Public Order Crime', 'Shoplifting', '2023-08-10', '16:00:00', '234 Cedar St', 'Stolen goods from a supermarket.', 'Nancy Clark', '7890123456', 'Grace Red', '2023-08-12', 'Solved'),
(108, 8, 9, 'Organized Crime', 'Armed Robbery', '2023-09-18', '03:30:00', '543 Oak St', 'Armed robbery in a convenience store.', 'George Wilson', '8901234567', 'Hannah Yellow', NULL, 'Under Investigation'),
(109, 9, 10, 'White-Collar Crime', 'Identity Theft', '2023-10-01', '08:45:00', '678 Maple St', 'Suspected identity theft in financial transactions.', 'Linda Brown', '9012345678', 'Ian Purple', '2023-10-03', 'Under Investigation'),
(110, 10, 11, 'Property Crime', 'Vandalism', '2023-11-04', '12:00:00', '890 Ash St', 'Damage to public property.', 'Jack Turner', '0123456789', 'John Doe', '2023-11-05', 'Under Investigation'),
(111, 12, 11, 'Property Crime', 'Vandalism', '2023-12-01', '16:00:00', '123 Birch St', 'Graffiti on a public building.', 'John Doe', '1234987650', 'Lucy Brown', NULL, 'Under Investigation'),
(112, 13, 12, 'Drug-Related Crime', 'Possession', '2023-12-05', '20:15:00', '234 Oak St', 'Possession of narcotics.', 'Sarah Lee', '2345678901', 'Jack Black', NULL, 'Under Investigation'),
(113, 14, 13, 'Violent Crime', 'Assault', '2023-12-10', '22:30:00', '345 Elm St', 'Assault in a bar.', 'Michael Green', '3456789012', 'Olivia White', NULL, 'Under Investigation'),
(114, 15, 14, 'Property Crime', 'Burglary', '2023-12-12', '01:00:00', '456 Pine St', 'Breaking into a store.', 'Linda Brown', '4567890123', 'Mike Green', NULL, 'Under Investigation'),
(115, 16, 15, 'Public Order Crime', 'Disturbance', '2023-12-15', '13:00:00', '567 Cedar St', 'Public disturbance reported.', 'Chris Black', '5678901234', 'Susan Gray', NULL, 'Under Investigation');

INSERT INTO Criminal (crime_ID, Name, Date_of_Birth, Status, Gender, Height, Weight, Eye_Color, Hair_Color, Skin_Tone, Build, Tattoos, No_of_Tattoos, Blood_Type, Crime_Category, Convictions, Last_Known_Address, Warrant_Status, Phone_Number, Known_Email_Address)
VALUES
(101, 'Michael Brown', '1985-08-12', 'Incarcerated', 'Male', 5.9, 160.5, 'Brown', 'Black', 'Medium', 'Athletic', 'Yes', 2, 'O+', 'Violent Crime', 1, '789 Main St', 'Active', '1234567890', 'michaelb@gmail.com'),
(102, 'Sarah Green', '1990-04-22', 'Free', 'Female', 5.6, 135.3, 'Blue', 'Blonde', 'Light', 'Slim', 'No', 0, 'A-', 'Property Crime', 0, '456 Elm St', 'Inactive', '0987654321', 'sarahg@yahoo.com'),
(103, 'Jessica White', '1988-11-30', 'Incarcerated', 'Female', 5.7, 140.2, 'Green', 'Brown', 'Light', 'Medium', 'Yes', 1, 'B+', 'Property Crime', 2, '123 Oak St', 'Active', '2345678901', 'jessicaw@outlook.com'),
(104, 'Mark Harris', '1975-02-10', 'Free', 'Male', 6.1, 185.0, 'Brown', 'Black', 'Medium', 'Muscular', 'No', 0, 'AB+', 'White-Collar Crime', 0, '321 Birch St', 'Inactive', '3456789012', 'markh@aol.com'),
(105, 'Rachel Lee', '1987-07-25', 'Incarcerated', 'Female', 5.5, 130.4, 'Black', 'Blonde', 'Medium', 'Athletic', 'Yes', 3, 'O-', 'Drug-Related Crime', 1, '654 Pine St', 'Active', '5678901234', 'rachell@icloud.com'),
(106, 'Tom Ford', '1992-03-14', 'Free', 'Male', 5.8, 170.0, 'Hazel', 'Brown', 'Dark', 'Lean', 'No', 0, 'A+', 'Violent Crime', 0, '987 Elm St', 'Inactive', '6789012345', 'tomf@outlook.com'),
(107, 'Nancy Clark', '1995-06-30', 'Free', 'Female', 5.6, 145.0, 'Blue', 'Red', 'Light', 'Slim', 'No', 0, 'B-', 'Public Order Crime', 0, '234 Cedar St', 'Active', '7890123456', 'nancyc@gmail.com'),
(108, 'George Wilson', '1980-12-01', 'Incarcerated', 'Male', 6.0, 175.3, 'Brown', 'Black', 'Dark', 'Stocky', 'Yes', 5, 'O+', 'Organized Crime', 3, '543 Oak St', 'Active', '8901234567', 'georgew@yahoo.com'),
(109, 'Linda Brown', '1993-05-18', 'Free', 'Female', 5.4, 125.6, 'Green', 'Blonde', 'Light', 'Slim', 'No', 0, 'AB-', 'White-Collar Crime', 1, '678 Maple St', 'Inactive', '9012345678', 'lindab@outlook.com'),
(110, 'Jack Turner', '1989-09-03', 'Incarcerated', 'Male', 6.2, 180.7, 'Brown', 'Brown', 'Medium', 'Athletic', 'Yes', 2, 'A-', 'Property Crime', 2, '890 Ash St', 'Active', '0123456789', 'jackt@gmail.com'),
(111, 'John Doe', '1987-05-21', 'Free', 'Male', 5.8, 170.5, 'Brown', 'Black', 'Medium', 'Athletic', 'No', 0, 'A-', 'Property Crime', 0, '123 Birch St', 'Active', '1234987650', 'johndoe@example.com'),
(112, 'Sarah Lee', '1993-09-13', 'Free', 'Female', 5.5, 130.2, 'Green', 'Brown', 'Light', 'Slim', 'No', 0, 'B+', 'Drug-Related Crime', 0, '234 Oak St', 'Inactive', '2345678901', 'sarahlee@example.com'),
(113, 'Michael Green', '1990-11-20', 'Free', 'Male', 6.0, 180.3, 'Blue', 'Blonde', 'Light', 'Muscular', 'Yes', 2, 'O-', 'Violent Crime', 1, '345 Elm St', 'Inactive', '3456789012', 'michaelgreen@example.com'),
(114, 'Linda Brown', '1985-02-25', 'Free', 'Female', 5.4, 125.8, 'Brown', 'Black', 'Light', 'Slim', 'No', 0, 'A+', 'Property Crime', 0, '456 Pine St', 'Active', '4567890123', 'lindabrown@example.com'),
(115, 'Chris Black', '1992-07-30', 'Free', 'Male', 5.9, 170.0, 'Hazel', 'Red', 'Medium', 'Lean', 'No', 0, 'B-', 'Public Order Crime', 0, '567 Cedar St', 'Active', '5678901234', 'chrisblack@example.com');

INSERT INTO Commits_Crime (crime_id, criminal_id)
VALUES
(101, 1),
(102, 2),
(103, 3),
(104, 4),
(105, 5),
(106, 6),
(107, 7),
(108, 8),
(109, 9),
(110, 10),
(101, 5),
(111, 11),
(112, 12),
(113, 13),
(114, 14),
(115, 15);
```

```
INSERT INTO Investigates (officer_ID, crime_ID)
VALUES
```

```
(1, 101),
(2, 102),
(3, 103),
(4, 104),
(5, 105),
(6, 106),
(7, 107),
(8, 108),
(9, 109),
(10, 110),
(1, 106),
(12, 111),
(13, 112),
(14, 113),
(15, 114),
(16, 115);
```

```
INSERT INTO AuditLog (user_id, action_type, action_timestamp, status, details)
VALUES
```

```
(1, 'Login', '2023-10-15 10:00:00', 'Success', 'Head Officer John Doe logged in successfully'),
(2, 'Update', '2023-10-15 11:00:00', 'Success', 'Officer Jane Smith updated a crime report.'),
(3, 'Login', '2023-10-16 09:30:00', 'Success', 'Alice Jones logged in successfully.'),
(4, 'Update', '2023-10-16 10:45:00', 'Success', 'Bob Brown updated a profile picture.'),
(5, 'Login', '2023-10-17 08:00:00', 'Success', 'Charlie White logged in successfully.'),
(6, 'Logout', '2023-10-17 12:15:00', 'Success', 'David Black logged out successfully.'),
(7, 'Login', '2023-10-18 11:20:00', 'Success', 'Emily Green logged in successfully.'),
(8, 'Update', '2023-10-18 13:30:00', 'Success', 'Frank Blue updated a crime report.'),
(9, 'Login', '2023-10-19 14:00:00', 'Success', 'Grace Red logged in successfully.'),
(10, 'Update', '2023-10-19 15:20:00', 'Success', 'Hannah Yellow updated a profile.'),
(11, 'Login', '2023-10-20 09:10:00', 'Success', 'Ian Purple logged in successfully.');
```

```
INSERT INTO Report (officer_id, details, summary)
VALUES
```

```
(1, 'Detailed report on violent crime.', 'Summary of the crime scene and victim statement.'),
(2, 'Detailed report on burglary.', 'Summary of the stolen items and witness statements.'),
(3, 'Report on vandalism.', 'Summary of the damage caused and potential suspects.'),
(4, 'Financial crime report.', 'Detailed information on fraudulent activity and transactions.'),
(5, 'Drug crime report.', 'Details on the drug-related crime scene and evidence.'),
(6, 'Assault report.', 'Summary of the assault details and witness accounts.'),
(7, 'Shoplifting report.', 'Details on stolen goods and suspect profile.'),
(8, 'Armed robbery report.', 'Details on armed robbery incident and victim statements.'),
(9, 'Fraudulent transaction report.', 'Summary of the fraudulent activities and evidence.'),
(10, 'Property damage report.', 'Summary of public property damage and investigative actions.'),
(11, 'Report on crime scene processing.', 'Detailed analysis of the crime scene and evidence collection.'),
(12, 'Detailed report on vandalism.', 'Summary of the damage and suspects involved.'),
(13, 'Detailed report on drug possession.', 'Report on evidence collected at the scene.'),
(14, 'Assault report and witness statements.', 'Summary of the altercation and interviews.'),
(15, 'Burglary report and stolen items.', 'Details of the items taken and investigation details.'),
(16, 'Disturbance report and public safety actions.', 'Summary of the incident and crowd control measures.');
```

```
INSERT INTO Evidence (crime_id, report_id, officer_id, evidence_type, collection_date, storage_location, description)
VALUES
```

```
(101, 1, 1, 'Physical', '2023-01-15 14:30:00', 'Evidence Locker 1', 'Assault weapon found at the crime scene.'),
(102, 2, 2, 'Photographic', '2023-02-12 02:45:00', 'Evidence Locker 2', 'Photograph of the burglary scene showing broken windows.'),
(103, 3, 3, 'Video', '2023-03-10 18:30:00', 'Evidence Locker 3', 'Surveillance video showing vandalism at the store.'),
(104, 4, 4, 'Forensic', '2023-04-25 10:15:00', 'Evidence Locker 4', 'Forensic analysis of stolen credit card transactions.'),
(105, 5, 5, 'Biometric', '2023-06-05 23:40:00', 'Evidence Locker 5', 'Fingerprint analysis from the crime scene related to drug possession.'),
(106, 6, 6, 'Audio', '2023-07-20 01:00:00', 'Evidence Locker 6', 'Audio recording of the assault incident.'),
(107, 7, 7, 'Electronic Device', '2023-08-10 16:00:00', 'Evidence Locker 7', 'Stolen laptop recovered from the supermarket theft incident.'),
(108, 8, 8, 'Testimonial', '2023-09-18 03:30:00', 'Evidence Locker 8', 'Eyewitness testimony regarding armed robbery at a convenience store.'),
(109, 9, 9, 'Photographic', '2023-10-01 08:45:00', 'Evidence Locker 9', 'Photograph of identity theft victim's financial documents.'),
(110, 10, 10, 'Handwritten', '2023-11-04 12:00:00', 'Evidence Locker 10', 'Handwritten notes found at the scene of the vandalism.'),
(111, 11, 11, 'Physical', '2023-12-01 10:30:00', 'Evidence Locker 11', 'A crowbar found at the scene of the break-in.'),
(112, 12, 12, 'Photographic', '2023-12-05 09:15:00', 'Evidence Locker 12', 'Photograph of the drug stash found during the raid.'),
(113, 13, 13, 'Video', '2023-12-07 14:20:00', 'Evidence Locker 13', 'Surveillance footage of the altercation at the bar.'),
(114, 14, 14, 'Forensic', '2023-12-10 16:45:00', 'Evidence Locker 14', 'DNA analysis from a bloodstain found at the scene of the assault.'),
(115, 15, 15, 'Biometric', '2023-12-12 13:00:00', 'Evidence Locker 15', 'Facial recognition data from a CCTV camera during the robbery.');
```


8. PROCEDURE

```
CREATE PROCEDURE InsertCrimeRecord (IN p_user_id INT, IN p_Type_of_Crime VARCHAR(50), IN p_Date_of_Crime DATE, IN p_Time_of_Crime TIME, IN p_Location VARCHAR(255),  
IN p_Reported_By VARCHAR(50)) BEGIN INSERT INTO Crime (user_id, officer_ID, Type_of_Crime, Exact_Crime, Date_of_Crime, Time_of_Crime, Location, Description, Victim_Name,  
Victim_Contact, Reported_By, Arrest_Date, Case_Status) VALUES (p_user_id, NULL, p_Type_of_Crime, NULL, p_Date_of_Crime, p_Time_of_Crime, p_Location, NULL, NULL, NULL, p_Reported_By, NULL, NULL);  
SELECT LAST_INSERT_ID() AS inserted_id; END;
```

Description:

This stored procedure, InsertCrimeRecord, inserts a new crime record into the Crime table with the provided details such as user ID, type of crime, date, time, location, and reported by, while leaving other fields as NULL.

9. FUNCTIONS

```
CREATE FUNCTION InsertCriminal(p_Crime_ID INT, p_Name VARCHAR(255), p_Date_of_Birth DATE, p_Status VARCHAR(100), p_Gender VARCHAR(50), p_Height DECIMAL(5,2),  
p_Weight DECIMAL(5,2), p_Eye_Color VARCHAR(50), p_Hair_Color VARCHAR(50), p_Skin_Tone VARCHAR(50), p_Build VARCHAR(50), p_Tattoos TEXT, p_No_of_Tattoos INT, p_Blood_Type VARCHAR(10),  
p_Crime_Category VARCHAR(100), p_Convictions TEXT, p_Last_Known_Address TEXT, p_Warrant_Status VARCHAR(50), p_Phone_Number VARCHAR(20),  
p_Known_Email_Address VARCHAR(255)) RETURNS VARCHAR(255) DETERMINISTIC READS SQL DATA BEGIN INSERT INTO Criminal (Crime_ID, Name, Date_of_Birth, Status, Gender, Height,  
Weight, Eye_Color, Hair_Color, Skin_Tone, Build, Tattoos, No_of_Tattoos, Blood_Type, Crime_Category, Convictions, Last_Known_Address, Warrant_Status, Phone_Number, Known_Email_Address)  
VALUES (p_Crime_ID, p_Name, p_Date_of_Birth, p_Status, p_Gender, p_Height, p_Weight, p_Eye_Color, p_Hair_Color, p_Skin_Tone, p_Build, p_Tattoos, p_No_of_Tattoos, p_Blood_Type, p_Crime_Category,  
p_Convictions, p_Last_Known_Address, p_Warrant_Status, p_Phone_Number, p_Known_Email_Address); RETURN 'Criminal record inserted successfully'; END;
```

10. TRIGGERS

```
CREATE TRIGGER log_crime_insert AFTER INSERT ON Crime FOR EACH ROW BEGIN IF (NEW.crime_ID IS NOT NULL)  
THEN INSERT INTO AuditLog (user_id, action_type, action_timestamp, status, details) VALUES (NEW.user_id, 'INSERT', NOW(), 'Success', CONCAT('New Crime ID: ', NEW.crime_ID)); END IF; END;
```

Description:

This trigger logs every new record inserted into the Crime table into the AuditLog table. It records the user_id, action type (INSERT), timestamp, status (Success), and details including the newly added crime_ID, provided it is not null.

```
CREATE TRIGGER log_crime_update AFTER UPDATE ON Crime FOR EACH ROW BEGIN IF (NEW.crime_ID IS NOT NULL) THEN INSERT INTO AuditLog (user_id, action_type,  
action_timestamp, status, details) VALUES (NEW.user_id, 'UPDATE', NOW(), 'Success', CONCAT('Updated Crime ID: ', NEW.crime_ID)); END IF; END;
```

Description:

This trigger logs updates to records in the Crime table by inserting an entry into the AuditLog table. It records the user_id, action type (UPDATE), timestamp, status (Success), and details of the updated crime_ID when a valid crime_ID is modified.

```
CREATE TRIGGER log_crime_delete AFTER DELETE ON Crime FOR EACH ROW BEGIN IF (OLD.crime_ID IS NOT NULL) THEN INSERT INTO AuditLog (user_id, action_type, action_timestamp, status, details) VALUES (OLD.user_id, 'DELETE', NOW(), 'Success', CONCAT('Deleted Crime ID: ', OLD.crime_ID));END IF;END;
```

Description:

This trigger logs the deletion of records from the Crime table into the AuditLog table. It captures details such as the user_id, action type (DELETE), timestamp, status (Success), and the deleted crime_ID when a valid crime_ID is removed.

FRONTEND:

REGISTER (for user):

Register

Username

Email

Password

Confirm Password

Role

User ▾

LOGIN:

Login

Username

Password

Login

USER (add complaint):

New Complaint

Type of Crime

Date of Crime

Time of Crime

Location

Submit Complaint

Type of Crime: Violent Crime
Date: 2024-11-13
Location: banglore

Edit

Delete

HEAD OFFICER:

CDMS

Home Assign

John

Criminal Records

Search by Name...

X

Filter by Status

Filter by Gender

Filter by Crime Category

Reset Filters

Name	Date of Birth	Status	Gender	Crime Category
Chris Black	1992-07-29T18:30:00.000Z	Free	Male	Public Order Crime
George Wilson	1980-11-30T18:30:00.000Z	Incarcerated	Male	Organized Crime
Jack Turner	1989-09-02T18:30:00.000Z	Incarcerated	Male	Property Crime
Jessica White	1988-11-29T18:30:00.000Z	Incarcerated	Female	Property Crime
John Doe	1987-05-20T18:30:00.000Z	Free	Male	Property Crime
Linda Brown	1993-05-17T18:30:00.000Z	Free	Female	White-Collar Crime
Linda Brown	1985-02-24T18:30:00.000Z	Free	Female	Property Crime
Mark Harris	1975-02-09T18:30:00.000Z	Free	Male	White-Collar Crime
Michael Brown	1985-08-11T18:30:00.000Z	Incarcerated	Male	Violent Crime
Michael Green	1990-11-19T18:30:00.000Z	Free	Male	Violent Crime

1

2

HEAD OFFICER (assign officers):

<input checked="" type="checkbox"/>	Property Crime	Burglary	2023-12-12	01:00:00	456 Pine St	Breaking into a store.	Linda Brown	4567890123	Mike Green	N/A	Under Investigation
<input type="checkbox"/>	Public Order Crime	Disturbance	2023-12-15	13:00:00	567 Cedar St	Public disturbance reported.	Chris Black	5678901234	Susan Gray	N/A	Under Investigation

Officer Records

	Officer ID	Ranking	Badge Number	Status	Case Count
<input checked="" type="checkbox"/>	1	Sergeant	1234A	Active	2
<input checked="" type="checkbox"/>	2	Lieutenant	5678B	Active	1
<input type="checkbox"/>	4	Captain	3456D	Active	1
<input type="checkbox"/>	6	Sergeant	2345F	Active	1
<input type="checkbox"/>	8	Detective	0123H	Active	1
<input type="checkbox"/>	9	Captain	4567I	Active	1
<input type="checkbox"/>	11	Sergeant	1357K	Active	0
<input type="checkbox"/>	12	Lieutenant	6789H	Active	1
<input type="checkbox"/>	14	Sergeant	2345J	Active	1
<input type="checkbox"/>	16	Inspector	4567L	Active	1

Assign Officers to Crime

Officer Records					
	Officer ID	Ranking	Badge Number	Status	Case Count
<input type="checkbox"/>	1	Sergeant	1234A	Active	3
<input type="checkbox"/>	2	Lieutenant	5678B	Active	2

OFFICER:

CDMS

HomeInvestigations

Jane

Criminal Records

Search by Name...

X

Filter by Status

Filter by Gender

Filter by Crime Category

Reset Filters

Name	Date of Birth	Status	Gender	Crime Category
Chris Black	1992-07-29T18:30:00.000Z	Free	Male	Public Order Crime
George Wilson	1980-11-30T18:30:00.000Z	Incarcerated	Male	Organized Crime
Jack Turner	1989-09-02T18:30:00.000Z	Incarcerated	Male	Property Crime
Jessica White	1988-11-29T18:30:00.000Z	Incarcerated	Female	Property Crime
John Doe	1987-05-20T18:30:00.000Z	Free	Male	Property Crime
Linda Brown	1993-05-17T18:30:00.000Z	Free	Female	White-Collar Crime
Linda Brown	1985-02-24T18:30:00.000Z	Free	Female	Property Crime
Mark Harris	1975-02-09T18:30:00.000Z	Free	Male	White-Collar Crime
Michael Brown	1985-08-11T18:30:00.000Z	Incarcerated	Male	Violent Crime
Michael Green	1990-11-19T18:30:00.000Z	Free	Male	Violent Crime

1

2

OFFICER (add criminal):

CDMS

HomeInvestigations

Jane

Crime Records

Crime ID	Type of Crime	Event Crime	Date of Crime	Time of Crime	Location	Description	Victim Name	Victim Contact	Reported By	Arrest Date	Case Status
102	Property Crime	Burglary	2023-02-12	02:45:00	456 Elm St	Home burglary reported by neighbor.	Sam Green	9887654321	Jane Smith	N/A	Under Investigation
115	Public Order Crime	Disturbance	2023-10-18	03:30:00	187 Cedar St	Public disturbance reported.	Chris Black	9876543210	Susan Gray	N/A	Under Investigation
114	Property Crime	Burglary	2023-10-12	01:30:00	456 Pine St	Breaking into a store.	Linda Brown	4567890123	Mike Green	N/A	Under Investigation

Decrease Font Size

New Criminal Record

Select Crime ID

102

115

114

Name

karan

Date of Birth

07/19/2024

Status

Free

Gender

Male

Height

180

Weight

75

Eye Color

Blue

Hair Color

Black

Skin Tone

Dark

Build

Heavy

Tattoos

Yes

Number of Tattoos

3

Blood Type

A+

Crime Category

Violent Crime

Convictions

2

View Record Details

CDMS

HomeInvestigations

Jane

Criminal Records

karan

X

Filter by Status

Filter by Gender

Filter by Crime Category

Reset Filters

Name	Date of Birth	Status	Gender	Crime Category
karan	2024-11-03T18:30:00.000Z	Free	Male	A+

1