CREATE DATABASE CrimeDataAnalysis1;

USE CrimeDataAnalysis1;

CREATE TABLE Location (

Location\_ID varchar(255) PRIMARY KEY,

Address VARCHAR(255),

Geolocation VARCHAR(255),

Type\_of\_Address VARCHAR(255)

) ENGINE=InnoDB;

CREATE TABLE Crime\_Report (

Crime\_ID varchar(255) PRIMARY KEY,

Date DATE,

Description VARCHAR(255),

Type\_of\_Crime VARCHAR(255),

Arrest\_Status VARCHAR(255),

Location\_ID varchar(255),

FOREIGN KEY (Location\_ID) REFERENCES Location(Location\_ID)

) ENGINE=InnoDB;

CREATE TABLE Police\_Officer (

Officer\_ID varchar(255) PRIMARY KEY,

Name VARCHAR(255),

Position ENUM('Officer', 'Sergeant', 'Lieutenant', 'Captain', 'Chief') NOT NULL,

Assigned\_Area VARCHAR(255)

) ENGINE=InnoDB;

CREATE TABLE Police\_Report (

Report\_ID varchar(255) PRIMARY KEY,

Date DATE,

Outcome VARCHAR(255),

Crime\_ID varchar(255),

Officer\_ID varchar(255),

FOREIGN KEY (Crime\_ID) REFERENCES Crime\_Report(Crime\_ID),

FOREIGN KEY (Officer\_ID) REFERENCES Police\_Officer(Officer\_ID)

) ENGINE=InnoDB;

CREATE TABLE Social\_Media (

Post\_ID varchar(255) PRIMARY KEY,

Date DATE,

Content TEXT,

Sentiment VARCHAR(255),

Location VARCHAR(255)

) ENGINE=InnoDB;

CREATE TABLE Weather\_Data (

Weather\_ID varchar(255) PRIMARY KEY,

Date DATE,

Precipitation VARCHAR(255),

Temperature VARCHAR(255),

Wind\_Speed VARCHAR(255)

);

INSERT INTO Location (Location\_ID, Address, Geolocation, Type\_of\_Address) VALUES

('L01', '123 Main St', '40.7128,-74.0060', 'Residential'),

('L02', '456 Elm Rd', '34.0522,-118.2437', 'Commercial'),

('L03', '789 Oak Ave', '41.8781,-87.6298', 'Public'),

('L04', '321 Pine Blvd', '39.9526,-75.1652', 'Industrial'),

('L05', '901 Maple St', '29.7604,-95.3698', 'Residential'),

('L06', '234 Cedar Rd', '37.7749,-122.4194', 'Commercial'),

('L07', '567 Spruce Ave', '42.3584,-71.0596', 'Public'),

('L08', '890 Walnut St', '35.7796,-78.6382', 'Residential'),

('L09', '345 Cherry Rd', '30.2672,-97.7431', 'Commercial'),

('L10', '678 Cypress Ave', '43.6532,-79.3832', 'Public'),

('L11', '901 Oak St', '38.5816,-121.4944', 'Industrial'),

('L12', '234 Pine St', '36.1627,-86.7816', 'Residential'),

('L13', '567 Elm St', '33.7490,-84.3880', 'Commercial'),

('L14', '890 Maple Ave', '41.8781,-87.6298', 'Public'),

('L15', '345 Spruce St', '40.7128,-74.0060', 'Residential'),

('L16', '678 Cedar Ave', '34.0522,-118.2437', 'Commercial'),

('L17', '901 Walnut Ave', '29.7604,-95.3698', 'Public'),

('L18', '234 Cherry St', '37.7749,-122.4194', 'Industrial'),

('L19', '567 Cypress St', '42.3584,-71.0596', 'Residential'),

('L20', '890 Oak Rd', '35.7796,-78.6382', 'Commercial');

INSERT INTO Crime\_Report (Crime\_ID, Date, Description, Type\_of\_Crime, Arrest\_Status, Location\_ID) VALUES

('C01', '2023-01-05', 'Wallet stolen from parked car', 'Theft', 'No Arrest', 'L01'),

('C02', '2023-01-12', 'Bar fight resulting in injury', 'Assault', 'Arrested', 'L02'),

('C03', '2023-02-18', 'Store window smashed', 'Vandalism', 'Pending', 'L03'),

('C04', '2023-03-15', 'Cyber hacking incident', 'Cyber Crime', 'Pending', 'L04'),

('C05', '2023-04-10', 'Burglary at residential home', 'Theft', 'No Arrest', 'L05'),

('C06', '2023-05-05', 'Physical altercation in public', 'Assault', 'Arrested', 'L06'),

('C07', '2023-06-01', 'Graffiti on public property', 'Vandalism', 'Pending', 'L07'),

('C08', '2023-07-04', 'Theft of personal belongings', 'Theft', 'No Arrest', 'L08'),

('C09', '2023-08-15', 'Credit card fraud reported', 'Fraud', 'Pending', 'L09'),

('C10', '2023-09-10', 'Assault with a deadly weapon', 'Assault', 'Arrested', 'L10'),

('C11', '2023-10-05', 'Vandalism at local park', 'Vandalism', 'No Arrest', 'L11'),

('C12', '2023-11-01', 'Cyberstalking incident', 'Cyber Crime', 'Pending', 'L12'),

('C13', '2023-12-05', 'Theft of vehicle', 'Theft', 'Arrested', 'L13'),

('C14', '2024-01-10', 'Physical fight in a bar', 'Assault', 'Arrested', 'L14'),

('C15', '2024-02-15', 'Graffiti on commercial building', 'Vandalism', 'Pending', 'L15'),

('C16', '2024-03-10', 'Credit card skimming detected', 'Fraud', 'Pending', 'L16'),

('C17', '2024-04-05', 'Burglary at commercial property', 'Theft', 'No Arrest', 'L17'),

('C18', '2024-05-01', 'Assault on a police officer', 'Assault', 'Arrested', 'L18'),

('C19', '2024-06-10', 'Vandalism at public monument', 'Vandalism', 'No Arrest', 'L19'),

('C20', '2024-07-05', 'Cyber hacking of personal data', 'Cyber Crime', 'Pending', 'L20');

INSERT INTO Police\_Officer (Officer\_ID, Name, Position, Assigned\_Area) VALUES

('PO\_01', 'James Carter', 'Sergeant', 'Downtown Precinct'),

('PO\_02', 'Sarah Connor', 'Lieutenant', 'Financial District'),

('PO\_03', 'Michael Rodriguez', 'Officer', 'Suburban Division'),

('PO\_04', 'Emma Wilson', 'Captain', 'Special Investigations'),

('PO\_05', 'John Smith', 'Officer', 'City Center'),

('PO\_06', 'Jane Doe', 'Sergeant', 'Downtown Precinct'),

('PO\_07', 'Robert Johnson', 'Lieutenant', 'Suburban Division'),

('PO\_08', 'Olivia Brown', 'Officer', 'Financial District'),

('PO\_09', 'William Taylor', 'Captain', 'City Center'),

('PO\_10', 'Ava Lee', 'Sergeant', 'Special Investigations'),

('PO\_11', 'Ethan Hall', 'Officer', 'Downtown Precinct'),

('PO\_12', 'Liam Chen', 'Lieutenant', 'Financial District'),

('PO\_13', 'Sophia Patel', 'Officer', 'Suburban Division'),

('PO\_14', 'Noah Kim', 'Captain', 'City Center'),

('PO\_15', 'Isabella Garcia', 'Sergeant', 'Special Investigations'),

('PO\_16', 'Alexander Martin', 'Officer', 'Downtown Precinct'),

('PO\_17', 'Mia Davis', 'Lieutenant', 'Financial District'),

('PO\_18', 'Julian Sanchez', 'Officer', 'Suburban Division'),

('PO\_19', 'Charlotte Brooks', 'Captain', 'City Center'),

('PO\_20', 'Benjamin White', 'Sergeant', 'Special Investigations');

INSERT INTO Police\_Report (Report\_ID, Date, Outcome, Crime\_ID, Officer\_ID) VALUES

('R01', '2023-01-07', 'Suspect identified', 'C01', 'PO\_05'),

('R02', '2023-01-13', 'Case closed with conviction', 'C02', 'PO\_12'),

('R03', '2023-02-20', 'Investigation ongoing', 'C03', 'PO\_08'),

('R04', '2023-03-25', 'Charges dropped', 'C04', 'PO\_01'),

('R05', '2023-04-10', 'Case closed', 'C05', 'PO\_14'),

('R06', '2023-05-05', 'Investigation ongoing', 'C06', 'PO\_06'),

('R07', '2023-06-01', 'Suspect arrested', 'C07', 'PO\_03'),

('R08', '2023-07-04', 'Case closed', 'C08', 'PO\_09'),

('R09', '2023-08-15', 'Investigation ongoing', 'C09', 'PO\_02'),

('R10', '2023-09-10', 'Charges filed', 'C10', 'PO\_10'),

('R11', '2023-10-05', 'Case closed', 'C11', 'PO\_15'),

('R12', '2023-11-01', 'Investigation ongoing', 'C12', 'PO\_04'),

('R13', '2023-12-05', 'Suspect identified', 'C13', 'PO\_07'),

('R14', '2024-01-10', 'Case closed with conviction', 'C14', 'PO\_11'),

('R15', '2024-02-15', 'Charges dropped', 'C15', 'PO\_16'),

('R16', '2024-03-10', 'Investigation ongoing', 'C16', 'PO\_13'),

('R17', '2024-04-05', 'Case closed', 'C17', 'PO\_17'),

('R18', '2024-05-01', 'Suspect arrested', 'C18', 'PO\_18'),

('R19', '2024-06-10', 'Investigation ongoing', 'C19', 'PO\_19'),

('R20', '2024-07-05', 'Charges filed', 'C20', 'PO\_20');

INSERT INTO Social\_Media (Post\_ID, Date, Content, Sentiment, Location) VALUES

('P01', '2023-01-06', 'Concerns about safety in the area.', 'Negative', 'New York'),

('P02', '2023-01-13', 'Appreciation for local police efforts.', 'Positive', 'Los Angeles'),

('P03', '2023-02-19', 'Report of suspicious activity.', 'Neutral', 'Chicago'),

('P04', '2023-03-25', 'Complaints about crime rates.', 'Negative', 'Houston'),

('P05', '2023-04-10', 'Praise for community policing.', 'Positive', 'Phoenix'),

('P06', '2023-05-05', 'Discussion about crime prevention.', 'Neutral', 'New York'),

('P07', '2023-06-01', 'Concerns about police response times.', 'Negative', 'Los Angeles'),

('P08', '2023-07-04', 'Appreciation for police service.', 'Positive', 'Chicago'),

('P09', '2023-08-15', 'Reports of increased crime.', 'Negative', 'Houston'),

('P10', '2023-09-10', 'Community safety tips.', 'Neutral', 'Phoenix'),

('P11', '2023-10-05', 'Complaints about lack of police presence.', 'Negative', 'New York'),

('P12', '2023-11-01', 'Praise for police community outreach.', 'Positive', 'Los Angeles'),

('P13', '2023-12-05', 'Discussion about crime statistics.', 'Neutral', 'Chicago'),

('P14', '2024-01-10', 'Concerns about cybercrime.', 'Negative', 'Houston'),

('P15', '2024-02-15', 'Appreciation for police support.', 'Positive', 'Phoenix'),

('P16', '2024-03-10', 'Reports of property damage.', 'Negative', 'New York'),

('P17', '2024-04-05', 'Community policing initiatives.', 'Neutral', 'Los Angeles'),

('P18', '2024-05-01', 'Praise for police response.', 'Positive', 'Chicago'),

('P19', '2024-06-10', 'Concerns about public safety.', 'Negative', 'Houston'),

('P20', '2024-07-05', 'Discussion about crime prevention strategies.', 'Neutral', 'Phoenix');

INSERT INTO Weather\_Data (Weather\_ID, Date, Precipitation, Temperature, Wind\_Speed) VALUES

('W01', '2023-01-05', '0.2 in', '34°F', '12 mph'),

('W02', '2023-01-12', '0.0 in', '28°F', '8 mph'),

('W03', '2023-02-18', '0.5 in', '41°F', '15 mph'),

('W04', '2023-03-15', '0.1 in', '45°F', '10 mph'),

('W05', '2023-04-10', '0.3 in', '52°F', '18 mph'),

('W06', '2023-05-05', '0.0 in', '60°F', '5 mph'),

('W07', '2023-06-01', '0.4 in', '65°F', '12 mph'),

('W08', '2023-07-04', '0.2 in', '75°F', '8 mph'),

('W09', '2023-08-15', '0.6 in', '80°F', '15 mph'),

('W10', '2023-09-10', '0.0 in', '70°F', '10 mph'),

('W11', '2023-10-05', '0.3 in', '55°F', '12 mph'),

('W12', '2023-11-01', '0.1 in', '45°F', '8 mph'),

('W13', '2023-12-05', '0.2 in', '35°F', '10 mph'),

('W14', '2024-01-10', '0.4 in', '30°F', '15 mph'),

('W15', '2024-02-15', '0.0 in', '25°F', '5 mph'),

('W16', '2024-03-10', '0.5 in', '40°F', '12 mph'),

('W17', '2024-04-05', '0.2 in', '50°F', '10 mph'),

('W18', '2024-05-01', '0.1 in', '60°F', '8 mph'),

('W19', '2024-06-10', '0.3 in', '65°F', '12 mph'),

('W20', '2024-07-05', '0.0 in', '75°F', '5 mph');