After Installing MY\_SQL

Create a database with Name: citizen\_db

SQL CODES:-

CREATE TABLE Citizen (

SSN VARCHAR(11) PRIMARY KEY, Name VARCHAR(255) NOT NULL, DOB DATE NOT NULL,

CitizenshipStatus VARCHAR(50) NOT NULL );

CREATE TABLE Employment (

EmploymentID INT AUTO\_INCREMENT PRIMARY KEY, SSN VARCHAR(11) NOT NULL,

EmployerID INT NOT NULL, JobTitle VARCHAR(100), StartDate DATE,

EndDate DATE,

FOREIGN KEY (SSN) REFERENCES Citizen(SSN) );

CREATE TABLE SocialSecurityRecord (

RecordID INT AUTO\_INCREMENT PRIMARY KEY, SSN VARCHAR(11) NOT NULL,

Contributions DECIMAL(10, 2) NOT NULL, FOREIGN KEY (SSN) REFERENCES Citizen(SSN)

);

// optional ALTER TABLE SocialSecurityRecord MODIFY COLUMN Benefits DECIMAL(15, 2) NULL;

// optional ALTER TABLE SocialSecurityRecord MODIFY COLUMN Benefits DECIMAL(15, 2) NOT NULL DEFAULT 0.00;

CREATE TABLE TaxReturn (

ReturnID INT AUTO\_INCREMENT PRIMARY KEY, SSN VARCHAR(11) NOT NULL,

Max\_Income DECIMAL(15, 2) NOT NULL, Tax\_Paid DECIMAL(15, 2) NOT NULL, Year INT NOT NULL,

FOREIGN KEY (SSN) REFERENCES Citizen(SSN),

UNIQUE (SSN, Year) -- Ensure only one tax return per SSN per year );

ALTER TABLE taxreturn CHANGE COLUMN Income Max\_Income DECIMAL(15,2);

ALTER TABLE taxreturn MODIFY COLUMN SSN VARCHAR(11) NOT NULL;

CREATE TABLE Address (

AddressID INT AUTO\_INCREMENT PRIMARY KEY, SSN VARCHAR(11) NOT NULL,

City VARCHAR(100) NOT NULL, State VARCHAR(100) NOT NULL, ZIP VARCHAR(10) NOT NULL,

FOREIGN KEY (SSN) REFERENCES Citizen(SSN) );

ALTER TABLE Address MODIFY COLUMN SSN VARCHAR(11) NOT NULL;

ALTER TABLE Address ADD CONSTRAINT fk\_address\_citizen FOREIGN KEY (SSN) REFERENCES Citizen(SSN);

// optional ALTER TABLE Address DROP FOREIGN KEY fk\_address\_citizen;

// optional ALTER TABLE Address ADD CONSTRAINT fk\_address\_citizen FOREIGN KEY (SSN) REFERENCES Citizen(SSN);

CREATE TABLE TaxAuthority (

AuthorityID INT AUTO\_INCREMENT PRIMARY KEY, Name VARCHAR(255) NOT NULL,

Region VARCHAR(255) NOT NULL );

ALTER TABLE TaxReturn ADD COLUMN AuthorityID INT;

ALTER TABLE TaxReturn

ADD CONSTRAINT fk\_taxreturn\_taxauthority FOREIGN KEY (AuthorityID)

REFERENCES TaxAuthority(AuthorityID);