-- Create a new database for BJJ Lineage Tracking

DROP DATABASE IF EXISTS bjj\_lineage;

CREATE DATABASE bjj\_lineage;

USE bjj\_lineage;

-- Create Users table

CREATE TABLE Users (

user\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

password VARCHAR(100) NOT NULL

);

-- Create People table (BJJ fighters and instructors)

CREATE TABLE People (

person\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

age INT,

belt\_rank VARCHAR(50),

gender VARCHAR(10)

);

-- Create Schools table (BJJ schools)

CREATE TABLE Schools (

school\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

location VARCHAR(100)

);

-- Create MembershipAffiliation table (Links People to Schools)

CREATE TABLE MembershipAffiliation (

membership\_id INT AUTO\_INCREMENT PRIMARY KEY,

person\_id INT,

school\_id INT,

join\_date DATE,

FOREIGN KEY (person\_id) REFERENCES People(person\_id),

FOREIGN KEY (school\_id) REFERENCES Schools(school\_id)

);

-- Create Instructions table (Links Teachers to Students)

CREATE TABLE Instructions (

instruction\_id INT AUTO\_INCREMENT PRIMARY KEY,

teacher\_id INT,

student\_id INT,

date DATE,

FOREIGN KEY (teacher\_id) REFERENCES People(person\_id),

FOREIGN KEY (student\_id) REFERENCES People(person\_id)

);

-- Create Rounds table (Tracks Rounds Between People in Tournaments)

CREATE TABLE Rounds (

round\_id INT AUTO\_INCREMENT PRIMARY KEY,

person1\_id INT,

person2\_id INT,

tournament\_id INT,

round\_date DATE,

FOREIGN KEY (person1\_id) REFERENCES People(person\_id),

FOREIGN KEY (person2\_id) REFERENCES People(person\_id)

);

-- Create Tournaments table (BJJ tournaments)

CREATE TABLE Tournaments (

tournament\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100),

location VARCHAR(100),

date DATE

);

-- Insert BJJ fighters into People table

INSERT INTO People (name, age, belt\_rank, gender) VALUES

('Brian Ortega', 32, 'Black Belt', 'Male'),

('Kron Gracie', 35, 'Black Belt', 'Male'),

('Mackenzie Dern', 30, 'Black Belt', 'Female'),

('Rickson Gracie', 65, 'Red Belt', 'Male'),

('Helio Gracie', 95, 'Red Belt', 'Male'),

('Gordon Ryan', 28, 'Black Belt', 'Male');

-- Insert BJJ schools into Schools table

INSERT INTO Schools (name, location) VALUES

('Gracie Academy', 'Rio de Janeiro, Brazil'),

('10th Planet Jiu-Jitsu', 'Los Angeles, USA'),

('Alliance Jiu-Jitsu', 'Sao Paulo, Brazil');

-- Insert membership affiliations into MembershipAffiliation table (Links People to Schools)

INSERT INTO MembershipAffiliation (person\_id, school\_id, join\_date) VALUES

(1, 1, '2010-01-01'), -- Brian Ortega joins Gracie Academy

(2, 1, '2005-01-01'), -- Kron Gracie joins Gracie Academy

(3, 2, '2012-06-15'), -- Mackenzie Dern joins 10th Planet

(4, 1, '1980-01-01'), -- Rickson Gracie joins Gracie Academy

(6, 3, '2018-03-10'); -- Gordon Ryan joins Alliance Jiu-Jitsu

-- Insert teacher-student relationships into Instructions table (Links Teachers to Students)

INSERT INTO Instructions (teacher\_id, student\_id, date) VALUES

(4, 1, '2010-01-01'), -- Rickson Gracie teaches Brian Ortega

(4, 2, '2005-01-01'), -- Rickson Gracie teaches Kron Gracie

(5, 4, '1980-01-01'); -- Helio Gracie teaches Rickson Gracie

-- Insert BJJ tournaments into Tournaments table

INSERT INTO Tournaments (name, location, date) VALUES

('IBJJF World Championship', 'Los Angeles, USA', '2023-06-15'),

('UFC 264', 'Las Vegas, USA', '2021-07-10'),

('ADCC 2022', 'Abu Dhabi, UAE', '2022-09-18');

-- Insert rounds (matches between fighters) into Rounds table

INSERT INTO Rounds (person1\_id, person2\_id, tournament\_id, round\_date) VALUES

(1, 2, 1, '2023-06-15'), -- Brian Ortega vs. Kron Gracie in IBJJF World Championship

(6, 3, 2, '2021-07-10'); -- Gordon Ryan vs. Mackenzie Dern in UFC 264

-- Display the results for all tables

SELECT \* FROM Users;

SELECT \* FROM People;

SELECT \* FROM Schools;

SELECT \* FROM MembershipAffiliation;

SELECT \* FROM Instructions;

SELECT \* FROM Rounds;

SELECT \* FROM Tournaments;