**SQL QUERIES**

**Creating Tables**

CREATE TABLE Users (

user\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100),

age INT,

gender ENUM('Male', 'Female', 'Other'),

email VARCHAR(100),

location VARCHAR(100)

);

CREATE TABLE Mental\_Health\_Assessments (

assessment\_id INT PRIMARY KEY AUTO\_INCREMENT,

user\_id INT,

assessment\_date DATE,

stress\_level INT,

anxiety\_level INT,

depression\_level INT,

sleep\_hours INT,

social\_media\_usage\_hours INT,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

CREATE TABLE Interventions (

intervention\_id INT PRIMARY KEY AUTO\_INCREMENT,

user\_id INT,

intervention\_date DATE,

intervention\_type VARCHAR(100),

intervention\_duration INT,

outcome TEXT,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

CREATE TABLE Surveys (

survey\_id INT PRIMARY KEY AUTO\_INCREMENT,

user\_id INT,

survey\_date DATE,

question\_1\_response TEXT,

question\_2\_response TEXT,

question\_3\_response TEXT,

overall\_wellbeing\_score INT,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

CREATE TABLE Academic\_Performance (

academic\_id INT PRIMARY KEY AUTO\_INCREMENT,

user\_id INT,

term VARCHAR(50),

grade VARCHAR(2),

attendance\_percentage DECIMAL(5,2),

extracurricular\_participation BOOLEAN,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

INSERTING SAMPLE DATA

-- Insert sample Users

INSERT INTO Users (name, age, gender, email, location) VALUES

('Alice Johnson', 17, 'Female', 'alice.j@example.com', 'New York'),

('Bob Smith', 16, 'Male', 'bob.s@example.com', 'Los Angeles'),

('Charlie Davis', 18, 'Male', 'charlie.d@example.com', 'Chicago'),

('Diana Prince', 17, 'Female', 'diana.p@example.com', 'Miami'),

('Ethan Hunt', 19, 'Male', 'ethan.h@example.com', 'San Francisco');

-- Insert sample Mental\_Health\_Assessments

INSERT INTO Mental\_Health\_Assessments (user\_id, assessment\_date, stress\_level, anxiety\_level, depression\_level, sleep\_hours, social\_media\_usage\_hours) VALUES

(1, '2024-08-01', 7, 5, 4, 6, 3),

(2, '2024-08-01', 6, 6, 5, 5, 4),

(3, '2024-08-01', 8, 7, 6, 4, 5),

(4, '2024-08-01', 5, 4, 3, 7, 2),

(5, '2024-08-01', 9, 8, 7, 3, 6);

-- Insert sample Interventions

INSERT INTO Interventions (user\_id, intervention\_date, intervention\_type, intervention\_duration, outcome) VALUES

(1, '2024-08-05', 'Therapy', 60, 'Reduced stress and anxiety'),

(2, '2024-08-06', 'Mindfulness', 30, 'Improved overall well-being'),

(3, '2024-08-07', 'Physical Activity', 45, 'Enhanced mood and energy levels'),

(4, '2024-08-05', 'Therapy', 60, 'Improved sleep quality'),

(5, '2024-08-06', 'Mindfulness', 30, 'Decreased social media usage');

-- Insert sample Surveys

INSERT INTO Surveys (user\_id, survey\_date, question\_1\_response, question\_2\_response, question\_3\_response, overall\_wellbeing\_score) VALUES

(1, '2024-08-01', 'Feeling stressed', 'Moderate anxiety', 'Mild depression', 6),

(2, '2024-08-01', 'Occasional stress', 'High anxiety', 'Moderate depression', 5),

(3, '2024-08-01', 'Frequent stress', 'Severe anxiety', 'High depression', 4),

(4, '2024-08-01', 'Low stress', 'Low anxiety', 'No depression', 8),

(5, '2024-08-01', 'Very high stress', 'Severe anxiety', 'Moderate depression', 3);

-- Insert sample Academic\_Performance

INSERT INTO Academic\_Performance (user\_id, term, grade, attendance\_percentage, extracurricular\_participation) VALUES

(1, 'Fall 2023', 'B', 90.00, TRUE),

(2, 'Fall 2023', 'A', 95.00, TRUE),

(3, 'Fall 2023', 'C', 85.00, FALSE),

(4, 'Fall 2023', 'B', 92.50, TRUE),

(5, 'Fall 2023', 'D', 80.00, FALSE);

**MORE DATA**

INSERT INTO Users (name, age, gender, email, location) VALUES

('Frank Castle', 17, 'Male', 'frank.c@example.com', 'Houston'),

('Grace Lee', 18, 'Female', 'grace.l@example.com', 'Philadelphia'),

('Henry Ford', 16, 'Male', 'henry.f@example.com', 'Phoenix'),

('Isabella Clark', 17, 'Female', 'isabella.c@example.com', 'San Antonio'),

('Jack Reacher', 19, 'Male', 'jack.r@example.com', 'San Diego'),

('Karen White', 16, 'Female', 'karen.w@example.com', 'Dallas'),

('Liam Neeson', 18, 'Male', 'liam.n@example.com', 'San Jose'),

('Mia Wallace', 17, 'Female', 'mia.w@example.com', 'Austin'),

('Nina Simone', 16, 'Female', 'nina.s@example.com', 'Fort Worth'),

('Oscar Wilde', 19, 'Male', 'oscar.w@example.com', 'Columbus'),

-- More Users...

('Zara Phillips', 17, 'Female', 'zara.p@example.com', 'Seattle');

-- Insert more sample Mental\_Health\_Assessments

INSERT INTO Mental\_Health\_Assessments (user\_id, assessment\_date, stress\_level, anxiety\_level, depression\_level, sleep\_hours, social\_media\_usage\_hours) VALUES

(6, '2024-08-02', 6, 4, 3, 7, 2),

(7, '2024-08-02', 7, 6, 4, 6, 3),

(8, '2024-08-02', 8, 7, 5, 5, 4),

(9, '2024-08-02', 5, 3, 2, 8, 1),

(10, '2024-08-02', 9, 8, 7, 4, 5),

(11, '2024-08-03', 4, 2, 1, 9, 0),

(12, '2024-08-03', 6, 5, 4, 7, 2),

(13, '2024-08-03', 7, 6, 5, 6, 3),

(14, '2024-08-03', 8, 7, 6, 5, 4),

(15, '2024-08-03', 5, 4, 3, 7, 2),

-- More Mental\_Health\_Assessments...

(55, '2024-08-10', 4, 3, 2, 7, 1);

-- Insert more sample Interventions

INSERT INTO Interventions (user\_id, intervention\_date, intervention\_type, intervention\_duration, outcome) VALUES

(6, '2024-08-08', 'Therapy', 60, 'Reduced anxiety and improved sleep'),

(7, '2024-08-09', 'Mindfulness', 30, 'Better focus and mood'),

(8, '2024-08-10', 'Physical Activity', 45, 'Increased energy and motivation'),

(9, '2024-08-08', 'Therapy', 60, 'Reduced stress and better sleep'),

(10, '2024-08-09', 'Mindfulness', 30, 'Improved emotional stability'),

(11, '2024-08-10', 'Therapy', 60, 'Decreased anxiety'),

(12, '2024-08-08', 'Physical Activity', 45, 'Improved mental clarity'),

(13, '2024-08-09', 'Mindfulness', 30, 'Increased self-awareness'),

(14, '2024-08-10', 'Therapy', 60, 'Reduced negative thoughts'),

(15, '2024-08-08', 'Physical Activity', 45, 'Better overall well-being'),

-- More Interventions...

(55, '2024-08-15', 'Mindfulness', 30, 'Improved stress management');

-- Insert more sample Surveys

INSERT INTO Surveys (user\_id, survey\_date, question\_1\_response, question\_2\_response, question\_3\_response, overall\_wellbeing\_score) VALUES

(6, '2024-08-02', 'Moderate stress', 'Mild anxiety', 'No depression', 7),

(7, '2024-08-02', 'High stress', 'Moderate anxiety', 'Mild depression', 5),

(8, '2024-08-02', 'Severe stress', 'High anxiety', 'Moderate depression', 4),

(9, '2024-08-02', 'Low stress', 'No anxiety', 'No depression', 8),

(10, '2024-08-02', 'Very high stress', 'Severe anxiety', 'High depression', 3),

(11, '2024-08-03', 'Mild stress', 'Moderate anxiety', 'Mild depression', 6),

(12, '2024-08-03', 'Moderate stress', 'High anxiety', 'Moderate depression', 5),

(13, '2024-08-03', 'High stress', 'Severe anxiety', 'High depression', 4),

(14, '2024-08-03', 'Low stress', 'Mild anxiety', 'Mild depression', 7),

(15, '2024-08-03', 'Very high stress', 'Moderate anxiety', 'High depression', 3),

-- More Surveys...

(55, '2024-08-10', 'Low stress', 'Mild anxiety', 'No depression', 7);

-- Insert more sample Academic\_Performance

INSERT INTO Academic\_Performance (user\_id, term, grade, attendance\_percentage, extracurricular\_participation) VALUES

(6, 'Spring 2024', 'B', 88.00, TRUE),

(7, 'Spring 2024', 'A', 92.00, TRUE),

(8, 'Spring 2024', 'C', 85.00, FALSE),

(9, 'Spring 2024', 'B', 89.50, TRUE),

(10, 'Spring 2024', 'D', 78.00, FALSE),

(11, 'Spring 2024', 'A', 95.00, TRUE),

(12, 'Spring 2024', 'B', 91.00, TRUE),

(13, 'Spring 2024', 'C', 84.00, FALSE),

(14, 'Spring 2024', 'B', 90.00, TRUE),

(15, 'Spring 2024', 'D', 79.00, FALSE),

-- More Academic\_Performance...

(55, 'Spring 2024', 'C', 84.00, TRUE);

**Data Retrieval Queries**

SELECT u.user\_id, u.name, u.age, u.gender, u.email, u.location,

mha.assessment\_date, mha.stress\_level, mha.anxiety\_level,

mha.depression\_level, mha.sleep\_hours, mha.social\_media\_usage\_hours

FROM Users u

JOIN Mental\_Health\_Assessments mha ON u.user\_id = mha.user\_id;