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#Nevaeh Johnson
import sqlite3

# establish connection
conn = sqlite3.connect('demo.db')

#used to execute SQL commands
cursor = conn.cursor()

# creat 'User' Table
cursor.execute('''CREATE TABLE IF NOT EXISTS Users (
    user_ID INTEGER PRIMARY KEY,
    username TEXT UNIQUE,
    email TEXT UNIQUE,
    password TEXT,
    create_at TIMESTMP DEFAULT CURRENT_TIMESTAMP
)''')

# create ' UserActivites' Table
cursor.execute(''' CREATE TABLE IF NOT EXISTS UserActivites (
    activity_id INTEGER PRIMARY KEY,
    user_id INTEGER,
    activity TEXT,
    activity_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (user_id) REFERENCES Users(user_id)
)''')

# create 'UserConnections' Table
cursor.execute('''CREATE TABLE IF NOT EXISTS UserConnections (
    connection_id INTEGER PRIMARY KEY,
    user1_id INTEGER,
    user2_id INTEGER,
    connection_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (user1_id) REFERENCES Users(user_id)
    FOREIGN KEY (user2_id) REFERENCES Users(user_id)
)''')

# create indexes for data retrieval
cursor.execute("CREATE INDEX IF NOT EXISTS idx_user_id ON UserActivites(user_id)")

cursor.execute("CREATE INDEX IF NOT EXISTS idx_user1_user2 ON UserConnections(user1_id, user2_id)")

# commit (save) changes
conn.commit()

# add (insert) data into User Table
cursor.execute("INSERT INTO Users (username, email, password) VALUES (?, ?, ?)", ('Vaeh', 'Vaeh804@example.com', 'Unicornmath'))

cursor.execute("INSERT INTO Users (username,email,password) VALUES (?, ?, ?)", ('Marci', 'bubblegum@example.com', 'finnndjake24'))

# add (insert) data into UserActivities Table
cursor.execute("INSERT INTO UserActivites (user_id, activity) VALUES (?,?)", (1, 'Logged in'))

cursor.execute("INSERT INTO UserActivites (user_id, activity) VALUES (?,?)", (2, 'Posted a comment'))

# add (insert) data into UserConnections Table
cursor.execute("INSERT INTO UserConnections (user1_id, user2_id) VALUES (?,?)", (2,1))

# commit (save) changes
conn.commit()

# query and print data from the Users Table
print("Users:")
cursor.execute("SELECT * FROM Users")
for row in cursor.fetchall():
    print(row)

# query and print data from UserActivites
print("/nUser Activities:")
cursor.execute("SELECT * FROM UserActivites")
for row in cursor.fetchall():
    print(row)

# query and print from the UserConnecctions Table
print("/nUser Connections:")
cursor.execute("SELECT * FROM UserConnections")
for row in cursor.fetchall():
    print(row)

# close the database connection
conn.close()

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👤 Users:
(1, 'Vaeh', 'Vaeh804@example.com', 'Unicornmath', '2024-04-25 15:51:02')
(2, 'Marci', 'bubblegum@example.com', 'finnndjake24', '2024-04-25 15:51:02')
/nUser Activities:

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(1, 1, 'Logged in', '2024-04-25 15:51:02')
(2, 2, 'Posted a comment', '2024-04-25 15:51:02')
/nUser Connections:
(1, 2, 1, '2024-04-25 15:51:02')
```

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