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# Jamaree Moyer Database Design & Implementation
import sqlite3
# connect to SQLite database
conn = sqlite3.connect('memory:')
cursor = conn.cursor()
print("establish in-memory database connection")
     establish in-memory database connection
# create users table
cursor.execute(''' CREATE TABLE IF NOT EXISTS users (
                   id INTERGER PRIMARY KEY,
                   name TEXT,
                   balance REAL

→ <sqlite3.Cursor at 0x7b1b33607140>

# add/insert data
cursor.execute("INSERT INTO users (name, balance) VALUES (?, ?)", ('Mitchall', 1000.0))
cursor.execute("INSERT INTO users (name, balance) VALUES (?, ?)", ('Lily', 500.0))
     <sqlite3.Cursor at 0x7b1b33607140>
# function to handle transfer funds transaction
def transfer_funds(sender, recipient, amount):
   try:
       # check if transaction is active
       if not conn.in transaction:
         # start transaction
         conn.execute("BEGIN")
       # check if sender has sufficient balance
       cursor.execute("SELECT balance FROM users WHERE name=?", (sender,))
        sender_balance = cursor.fetchone()[0]
       if sender_balance < amount:</pre>
           raise ValueError("Insuffienct funds")
        #update sender's balance
       cursor.execute("UPDATE users SET balance = balance - ? WHERE name=?", (amount, sender))
       # update recipient's balance
       cursor.execute("UPDATE users SET balance = balance + ? WHERE name=?", ( amount, recipient))
       # commit transaction
        if not conn.in_transaction:
         # commit only if not already in transaction
         conn.commit()
       print("Transaction successful")
   except Exception as e:
       # rollback transaction if any error occurs
        if not conn.in_transaction:
           # rollback only if not alrady in a transaction
            conn.rollback()
       print("Created function to handle transfer of funds")
# perform a fund transfer
transfer_funds('Mitchal', 'Lily', 200.0)
    Created function to handle transfer of funds
# display balances after transaction
cursor.execute("SELECT name, balance FROM users")
print(cursor.fetchall())
     [('Mitchall', 1000.0), ('Lily', 500.0)]
# close database connection
conn.close()
print("close database connection")
     close database connection
```