**Iteration 1**:

import sqlite3

# Connect to the database (or create it if it doesn't exist)

conn = sqlite3.connect("students.db")

cursor = conn.cursor()

# Create the students table if it doesn't already exist

cursor.execute("""

CREATE TABLE IF NOT EXISTS students (

id INTEGER PRIMARY KEY AUTOINCREMENT,

student\_name TEXT NOT NULL,

student\_id TEXT NOT NULL UNIQUE,

birth\_date TEXT NOT NULL

)

""")

conn.commit()

# Function to add a student to the database

def add\_student():

student\_name = input("Enter the student's name: ")

student\_id = input("Enter the student's ID number: ")

birth\_date = input("Enter the student's birth date (YYYY-MM-DD): ")

try:

     cursor.execute("""

     INSERT INTO students (student\_name, student\_id, birth\_date)

     VALUES (?, ?, ?)

     """, (student\_name, student\_id, birth\_date))

     conn.commit()

     print("Student added successfully!")

except sqlite3.IntegrityError:

     print("Error: A student with this ID already exists.")

# Main program loop

while True:

print("\nStudent Database")

print("1. Add a new student")

print("2. Exit")

choice = input("Enter your choice: ")

if choice == "1":

     add\_student()

elif choice == "2":

     print("Exiting the program. Goodbye!")

     break

else:

     print("Invalid choice. Please try again.")

# Close the database connection

conn.close()