11.1+2

# zoo.py

def hours():

print("Open 9-5 daily")

cd path/to/your/file

python

>>> import zoo

>>> zoo.hours()

Open 9-5 daily

>>> import zoo as menagerie

>>> menagerie.hours()

Open 9-5 daily

16.4

import sqlite3

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

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

cursor = conn.cursor()

# Create the books table

cursor.execute("""

CREATE TABLE IF NOT EXISTS books (

title TEXT,

author TEXT,

year INTEGER

)

""")

# Commit and close

conn.commit()

conn.close()

16.5

title,author,year

The Catcher in the Rye,J.D. Salinger,1951

To Kill a Mockingbird,Harper Lee,1960

1984,George Orwell,1949

import sqlite3

import csv

# Connect to the database

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

cursor = conn.cursor()

# Read CSV and insert data

with open("books2.csv", "r") as file:

reader = csv.reader(file)

next(reader) # Skip the header row

for row in reader:

cursor.execute("INSERT INTO books (title, author, year) VALUES (?, ?, ?)", row)

# Commit and close

conn.commit()

conn.close()

16.6

import sqlite3

# Connect to the database

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

cursor = conn.cursor()

# Query to get titles in alphabetical order

cursor.execute("SELECT title FROM books ORDER BY title")

# Print results

for row in cursor.fetchall():

print(row[0])

# Close connection

conn.close()

16.7

import sqlite3

# Connect to the database

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

cursor = conn.cursor()

# Query to get all columns ordered by year

cursor.execute("SELECT \* FROM books ORDER BY year")

# Print results

for row in cursor.fetchall():

print(row)

# Close connection

conn.close()

pip install sqlalchemy

from sqlalchemy import create\_engine, Table, MetaData

# Connect to the database using SQLAlchemy

engine = create\_engine("sqlite:///books.db")

connection = engine.connect()

metadata = MetaData()

# Reflect the books table

books = Table("books", metadata, autoload\_with=engine)

# Query to get titles in alphabetical order

query = books.select().order\_by(books.c.title)

result = connection.execute(query)

# Print results

for row in result:

print(row.title)

# Close connection

connection.close()