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Internet Programming

# Code for Assignment

# conn=sqlite3.connect('sqlite-sakila.sq') c=conn.cursor() sql="select \* from actor" data=c.execute(sql)

conn= sqlite3.connect('sqlite-sakila.sq')

c=conn.cursor()

sql="select \* from actor"

data = c.execute(sql)

for row in data:

print(row)

conn = sqlite3.connect('sqlite-sakila.sq')

c = conn.cursor()

sql = "select \* from actor"

data = c.execute(sql)

for row in data:

print(row)

print("==" \* 50)

for row in data: print(row)

from db import do\_command

def list\_of\_all\_stores():

return do\_command("select \* from store")

def list\_of\_all\_films():

return do\_command("select \* from film order by title")

def list\_of\_all\_inventory():

return do\_command("select \* from inventory")

def inventory\_for\_film(film\_id):

return do\_command("select \* from inventory where film\_id = ?", [film\_id])

def inventory\_for\_film\_for\_store(film\_id, store\_id):

return do\_command("select \* from inventory where film\_id = ? and store\_id = ?", [film\_id, store\_id])

def count\_rentals\_for\_film(film\_id):

invent = inventory\_for\_film(film\_id)

rentals = 0

for inv in invent:

rnt = do\_command("select count(all) as cnt from rental where inventory\_id = ?", [inv['inventory\_id']])

#print(rnt)

rentals += rnt[0]['cnt']

return rentals

allstores = list\_of\_all\_stores()

print("===" \* 50)

for row in allstores:

print (row)

print("===" \* 50)

allfilms = list\_of\_all\_films()

print("===" \* 50)

for row in allfilms:

print (row)

print("===" \* 50)

allinventory = list\_of\_all\_inventory()

print("===" \* 50)

for row in allinventory:

print (row)

print("===" \* 50)

inventoryforfilm = inventory\_for\_film(999)

print("===" \* 50)

for row in inventoryforfilm:

print (row)

print("===" \* 50)

inventoryforfilmstore = inventory\_for\_film\_for\_store(999, 1)

print("===" \* 50)

for row in inventoryforfilmstore:

print (row)

print("===" \* 50)

countforfilm = count\_rentals\_for\_film(999)

print("===" \* 50)

print("this film had " + str(countforfilm) + " rentals")

print("===" \* 50)

import sqlite3

from os.path import join, split

def dictionary\_factory(cursor, row):

col\_names = [d[0].lower() for d in cursor.description]

return dict(zip(col\_names, row))

def getConnection():

this\_dir = split(\_\_file\_\_)[0]

fname = join(this\_dir, 'sqlite-sakila.sq')

conn = sqlite3.connect(fname)

conn.row\_factory = dictionary\_factory # note: no parentheses

return conn

def do\_command(cmd, args=[]):

try:

print("trying to connect...")

conn = getConnection()

crs = conn.cursor()

crs.execute(cmd, args)

return crs.fetchall()

finally:

conn.close()

print("Closed")

data = do\_command("select \* from actor")

from db import do\_command

customers = do\_command("select ID, name, address from customer\_list")

customerrentals = do\_command("select rental.rental\_id, ID, name, address from customer\_list inner join rental on rental.customer\_id=ID")

# for row in customers:

# print(row)

for row in customerrentals:

print(row)

# Images for Assignment Four

Text

Description automatically generatedGraphical user interface

Description automatically generatedText

Description automatically generatedText

Description automatically generatedText

Description automatically generatedA picture containing text, monitor, indoor, computer

Description automatically generated

import sqlite3

Graphical user interface, application

Description automatically generated