

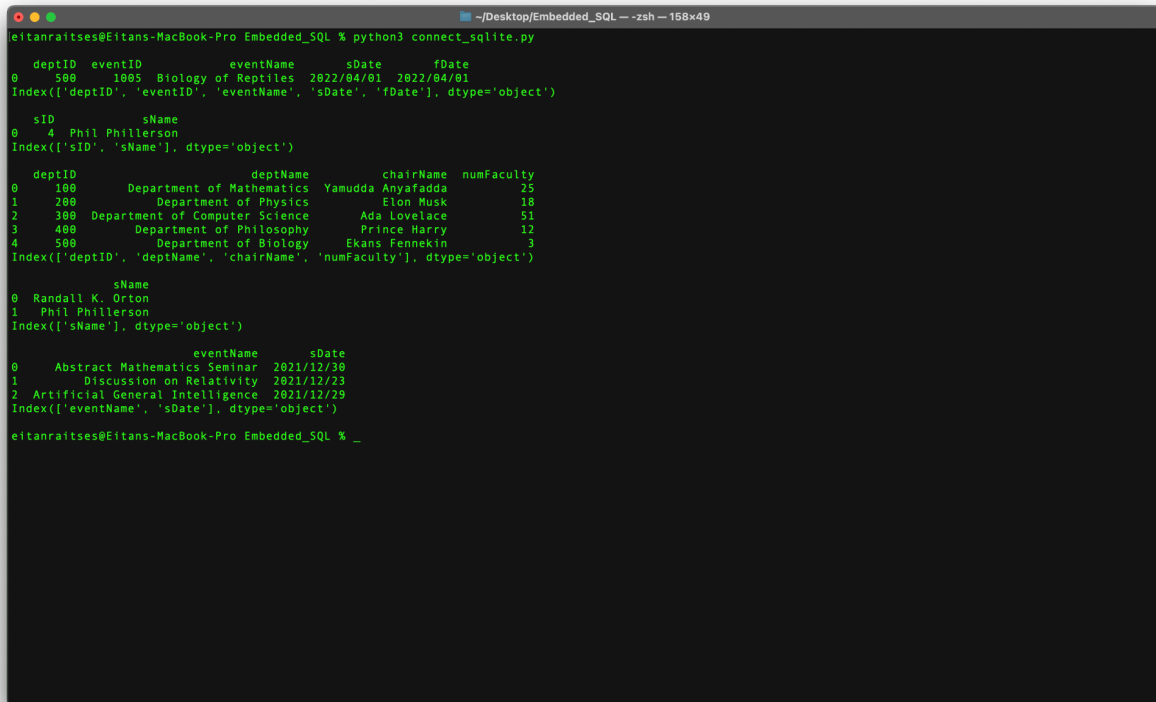
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CSC 423
Professor Aguiar-Pulido
Project Part 3

Link to github repository: <https://github.com/eitanrait/DatabasesFinalProject>

Set of assumptions for sqlite implementation:

A major does not need to be declared by a student to be offered by a department
Departments must have one or more faculty
Events must have at least one hosting department
Events hosted by multiple departments share the same eventID, with different deptIDs
Events can share the same name, yet have different eventIDs

Screenshot of output of SQL queries:



```
eitanraitses@Eitans-MacBook-Pro Embedded_SQL % python3 connect_sqlite.py

deptID  eventID      eventName      sDate      fDate
0      500      1005  Biology of Reptiles  2022/04/01  2022/04/01
Index(['deptID', 'eventID', 'eventName', 'sDate', 'fDate'], dtype='object')

sID      sName
0      4  Phil Phillerson
Index(['sID', 'sName'], dtype='object')

deptID      deptName      chairName      numFaculty
0      100      Department of Mathematics  Yamudda Anyafadda      25
1      200      Department of Physics      Elon Musk      10
2      300      Department of Computer Science  Ada Lovelace      51
3      400      Department of Philosophy      Prince Harry      12
4      500      Department of Biology      Ekans Fennekin      3
Index(['deptID', 'deptName', 'chairName', 'numFaculty'], dtype='object')

sName
0  Randall K. Orton
1  Phil Phillerson
Index(['sName'], dtype='object')

eventID      eventName      sDate
0      Abstract Mathematics Seminar  2021/12/30
1      Discussion on Relativity  2021/12/23
2      Artificial General Intelligence  2021/12/29
Index(['eventID', 'eventName', 'sDate'], dtype='object')

eitanraitses@Eitans-MacBook-Pro Embedded_SQL % _
```

Screenshot of contents of database:

```
~/Desktop/Embedded_SQL -- zsh -- 159x49

deptID      deptName      chairName      numFaculty
0 100      Department of Mathematics      Yamudda Anyafadda      25
1 200      Department of Physics      Elon Musk      18
2 300      Department of Computer Science      Ada Lovelace      51
3 400      Department of Philosophy      Prince Harry      12
4 500      Department of Biology      Ekans Fennekin      3
Index(['deptID', 'deptName', 'chairName', 'numFaculty'], dtype='object')

majorID      majorName      deptID
0 PHI      Philosophy      4
1 APY      Astrophysics      2
2 TPG      Topology      1
3 CNS      Computational Neuroscience      3
4 BIO      Biology      5
Index(['majorID', 'majorName', 'deptID'], dtype='object')

sID      sName      sInit
0 1      Eitan Raitses      ER
1 2      John G. Goomba      JGG
2 3      Anna B. Goomba      ABG
3 4      Phil Phillerson      PP
4 5      Randall K. Orton      RKO
Index(['sID', 'sName', 'sInit'], dtype='object')

eventID      eventName      ...      fDate      recordCreationDate
0 1001      Abstract Mathematics Seminar      ...      2022/01/01      None
1 1002      Discussion on Relativity      ...      2021/12/24      None
2 1003      Philosophy of Emotions      ...      2022/02/05      None
3 1004      Artificial General Intelligence      ...      2021/12/31      None
4 1005      Biology of Reptiles      ...      2022/04/01      None

[5 rows x 5 columns]
Index(['eventID', 'eventName', 'sDate', 'fDate', 'recordCreationDate'], dtype='object')

deptID      majorID
0 100      TPG
1 200      APY
2 300      CNS
3 400      PHI
4 500      BIO
Index(['deptID', 'majorID'], dtype='object')

sID      eventID
0 1      1001
1 2      1002
2 3      1003
3 4      1004
4 5      1005
Index(['sID', 'eventID'], dtype='object')

sID      majorID
0 1      APY
1 2      PHI
2 3      BIO
3 4      CNS
4 5      TPG
Index(['sID', 'majorID'], dtype='object')

deptID      eventID
0 100      1001
1 200      1002
2 400      1003
3 300      1004
4 500      1005
Index(['deptID', 'eventID'], dtype='object')
```