

Press **Esc** to exit full screen

Code Sample

tracks.py

<https://www.py4e.com/code3.zip>

Chapter 15

**CHARLES
SEVERANCE**

[MUSIC]

**PYTHON
FOR EVERYBODY**

Atom File Edit View Selection Find Packages Window Help

tracks.py — /Applications/MAMP/htdocs/py4e/code3

```
9 DROP TABLE IF EXISTS Artist;
10 DROP TABLE IF EXISTS Album;
11 DROP TABLE IF EXISTS Track;
12
13 CREATE TABLE Artist (
14     id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT UNIQUE,
15     name TEXT UNIQUE
16 );
17
18 CREATE TABLE Album (
19     id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT UNIQUE,
20     artist_id INTEGER,
21     title TEXT UNIQUE
22 );
23
24 CREATE TABLE Track (
25     id INTEGER NOT NULL PRIMARY KEY
26     AUTOINCREMENT UNIQUE,
27     title TEXT UNIQUE
```

code3

- __pycache__
- bs4
- geodata
- gmane
- pagerank
- roster
- tracks
 - Library.xml
 - README.txt
 - tracks.py
- .DS_Store
- .htaccess
- addtwo.py
- argfile.py
- argtest.py
- authors.txt
- avelist.py
- avenum.py
- average.py
- badhtml.html
- bs4.zip
- celsius.py

tracks/tracks.py 16:1 (2, 24) LF UTF-8 Python master

Which means if I try to attempt insert the same artist twice, it will blow up, okay?

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tracks.py — /Applications/MAMP/htdocs/py4e/code3

code3

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```
59 length = lookup(entry, 'Total Time')
60
61 if name is None or artist is None or album is None :
62     continue
63
64 print(name, artist, album, count, rating, length)
65
66 cur.execute('''INSERT OR IGNORE INTO Artist (name)
67             VALUES ( ?, ? )''', ( artist, ) )
68 cur.execute('SELECT id FROM Artist WHERE name = ? ', (artist, ))
69 artist_id = cur.fetchone()[0]
70
71 cur.execute('''INSERT OR IGNORE INTO Album (title, artist_id)
72             VALUES ( ?, ? )''', ( album, artist_id ) )
73 cur.execute('SELECT id FROM Album WHERE title = ? ', (album, ))
74 album_id = cur.fetchone()[0]
75
76 cur.execute('''INSERT OR REPLACE INTO Track
77             (title, album_id, len, rating, count)
```

tracks/tracks.py 67:26 (1, 11) LF UTF-8 Python master

I have to sort of put the comma
in to force it to be a tuple.

DB Browser for SQLite - /Applications/MAMP/htdocs/py4e/code3/tracks/trackdb.sqlite

New Database Open Database Write Changes Revert Changes

Database Structure Browse Data Edit Pragmas Execute SQL

Table: Album

	id	artist_id
Filter	Filter	
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	9	9
8	11	11
9	13	13
10	55	55
11	58	58

1 - 11 of 41

Untitled - Edited

```
SELECT Track.title, Album.title, Artist.name FROM Track JOIN  
Album JOIN Artist ON Track.album_id = Album.id AND  
Album.artist_id = Artist.id
```

Import Export Set as NULL

0 byte(s)

Apply

UTF-8

Select Language

Artist.id, I think that might work.