

# test

May 29, 2020

```
In [1]: %load_ext sql
```

```
In [2]: %sql postgresql://student:student@127.0.0.1/sparkifydb
```

```
(psycopg2.OperationalError) FATAL:  database "sparkifydb" does not exist
```

Connection info needed in SQLAlchemy format, example:

postgresql://username:password@hostname/dbname

or an existing connection: dict\_keys([])

```
In [3]: %sql SELECT * FROM songplays LIMIT 5;
```

```
* postgresql://student:***@127.0.0.1/sparkifydb
5 rows affected.
```

```
Out[3]: [(0, datetime.datetime(2018, 11, 29, 0, 0, 57, 796000), 73, 'paid', None, None, 954, 'Ta
(1, datetime.datetime(2018, 11, 29, 0, 1, 30, 796000), 24, 'paid', None, None, 984, 'La
(2, datetime.datetime(2018, 11, 29, 0, 4, 1, 796000), 24, 'paid', None, None, 984, 'Lak
(3, datetime.datetime(2018, 11, 29, 0, 4, 55, 796000), 73, 'paid', None, None, 954, 'Ta
(4, datetime.datetime(2018, 11, 29, 0, 7, 13, 796000), 24, 'paid', None, None, 984, 'La
```

```
In [4]: %sql SELECT * FROM users LIMIT 5;
```

```
* postgresql://student:***@127.0.0.1/sparkifydb
5 rows affected.
```

```
Out[4]: [(50, 'Ava', 'Robinson', 'F', 'free'),
(54, 'Kaleb', 'Cook', 'M', 'free'),
(14, 'Theodore', 'Harris', 'M', 'free'),
(98, 'Jordyn', 'Powell', 'F', 'free'),
(78, 'Chloe', 'Roth', 'F', 'free')]
```

```
In [5]: %sql SELECT * FROM songs LIMIT 5;
```

```
* postgresql://student:***@127.0.0.1/sparkifydb
5 rows affected.
```

```
Out[5]: [('SOINLJW12A8C13314C', 'City Slickers', 'AR8IEZ01187B99055E', 2008, 149.864),
          ('SOGDBUF12A8C140FAA', 'Intro', 'AR558FS1187FB45658', 2003, 75.6763),
          ('SORRZGD12A6310DBC3', 'Harajuku Girls', 'ARVBRGZ1187FB4675A', 2004, 290.56),
          ('SONWXQJ12A8C134D94', 'The Ballad Of Sleeping Beauty', 'ARNF6401187FB57032', 1994, 305.56),
          ('SOFCHDR12AB01866EF', 'Living Hell', 'AREVWGE1187B9B890A', 0, 282.435)]
```

```
In [6]: %sql SELECT * FROM artists LIMIT 5;
```

```
* postgresql://student:***@127.0.0.1/sparkifydb
5 rows affected.
```

```
Out[6]: [('AR8IEZ01187B99055E', 'Marc Shaiman', '', nan, nan),
          ('AR558FS1187FB45658', '40 Grit', '', nan, nan),
          ('ARVBRGZ1187FB4675A', 'Gwen Stefani', '', nan, nan),
          ('ARNF6401187FB57032', 'Sophie B. Hawkins', 'New York, NY [Manhattan]', 40.7909, -73.9622),
          ('AREVWGE1187B9B890A', 'Bitter End', 'Noci (BA)', -13.442, -41.9952)]
```

```
In [7]: %sql SELECT * FROM time LIMIT 5;
```

```
* postgresql://student:***@127.0.0.1/sparkifydb
5 rows affected.
```

```
Out[7]: [(datetime.datetime(2018, 11, 29, 0, 0, 57, 796000), 0, 29, 48, 11, 2018, 3),
          (datetime.datetime(2018, 11, 29, 0, 1, 30, 796000), 0, 29, 48, 11, 2018, 3),
          (datetime.datetime(2018, 11, 29, 0, 4, 1, 796000), 0, 29, 48, 11, 2018, 3),
          (datetime.datetime(2018, 11, 29, 0, 4, 55, 796000), 0, 29, 48, 11, 2018, 3),
          (datetime.datetime(2018, 11, 29, 0, 7, 13, 796000), 0, 29, 48, 11, 2018, 3)]
```

## 0.1 REMEMBER: Restart this notebook to close connection to sparkifydb

Each time you run the cells above, remember to restart this notebook to close the connection to your database. Otherwise, you won't be able to run your code in `create_tables.py`, `etl.py`, or `etl.ipynb` files since you can't make multiple connections to the same database (in this case, `sparkifydb`).

```
In [ ]:
```