

Database

November 27, 2018

```
In [17]: import psycopg2
```

```
In [18]: host_ip = "172.17.0.4"
```

```
In [19]: # create gallery database
```

```
try:
    conn = psycopg2.connect(user="postgres", password="mysecretpassword", host=host_ip)
except:
    print("connecting failed")

conn.set_session(autocommit=True)
cur = conn.cursor()
cur.execute("CREATE DATABASE gallery;")
conn.close()
```

```
In [20]: # connect to gallery database
```

```
try:
    conn = psycopg2.connect(dbname="gallery", user="postgres", password="mysecretpassword")
except:
    print("connecting failed")

conn.set_session(autocommit=True)
cur = conn.cursor()
```

```
In [21]: #create tables
```

```
try:
    cur.execute(open("schema.sql", "r").read())
except Exception as e:
    print("could not create tables", e)
```

```
In [22]: cur.execute("INSERT INTO customer VALUES(123, 'Emilio', 'westersingle', '0623324232')")
cur.execute("SELECT * FROM customer")
cur.fetchall()
```

```
Out[22]: [(123, 'EMILIO', 'westersingle', '0623324232')]
```

```
In [23]: cur.execute("INSERT INTO artist VALUES(123, 'Erik')")
cur.execute("SELECT * FROM artist")
cur.fetchall()
```

```
Out[23]: [(123, 'ERIK')]
```

```
In [24]: cur.execute("INSERT INTO purchase VALUES(123, 'abc', '1994-12-10', 0)" )
cur.execute("SELECT * FROM purchase")
cur.fetchall()
```

InternalError

Traceback (most recent call last)

```
<ipython-input-24-fe0da0683d6d> in <module>()
----> 1 cur.execute("INSERT INTO purchase VALUES(123, 'abc', '1994-12-10', 0)" )
      2 cur.execute("SELECT * FROM purchase")
      3 cur.fetchall()
```

```
InternalError: price is not positive
CONTEXT:  PL/pgSQL function price_pos() line 4 at RAISE
```

```
In [25]: conn.close()
```

```
In [ ]:
```