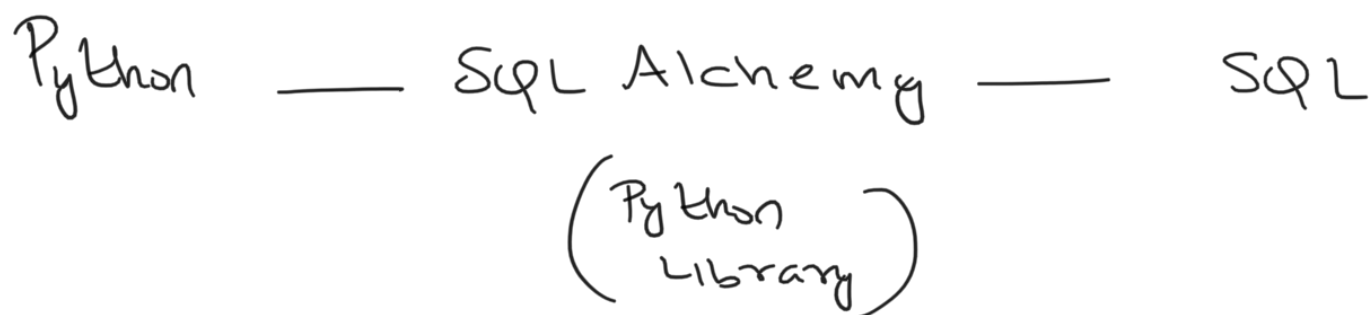


Lecture: SQL and Python

connecting bridge



import os

from sqlalchemy import create_engine

from sqlalchemy.orm import

creates an engine which takes care of interactions with Database
→ scoped-session, sessionmaker

engine = create_engine (os.getenv
("DATABASE_URL"))

environment variable
(set in terminal)

db = scoped_session (sessionmaker

(bind = engine))

selecting data

my_data =

db.execute (" SQL-command ")

• fetchall ()

(can use . fetchone () etc. -)

Returns NONE
if no results
found

my_data = list of all rows that SQL returns...

for row in my_data:

row, col_name ← gives you



inserting data

csv file → python

```
import csv
```

```
f = open("flights.csv")
```

```
reader = csv.reader(f)
```

```
for o, de, du in reader:
```

```
    db.execute("INSERT INTO
```

flights

(origin, destination,
duration)

placeholders

VALUES

(: origin, : destination,
: duration)

{ "origin": o

(
"destination": de,
"duration": du 3)

db.commit()

← didn't need it
for reading data..

but db.commit(),
commands are not
run!!