Lecture: OOP and orm

OOP	(object	onented	boole	ammıy)	. ط
	Flight:	init (s		sin, destin	abo
save as	sel	f. or = = = = = = = = = = = = = = = = = =	destin		
	def	nethod	(self)		
1/	Coeate	an an an	o our F	light down	
A	= Flight	New York!	Lond	n!, 125)	
Α.	me tho d	-1()			

1

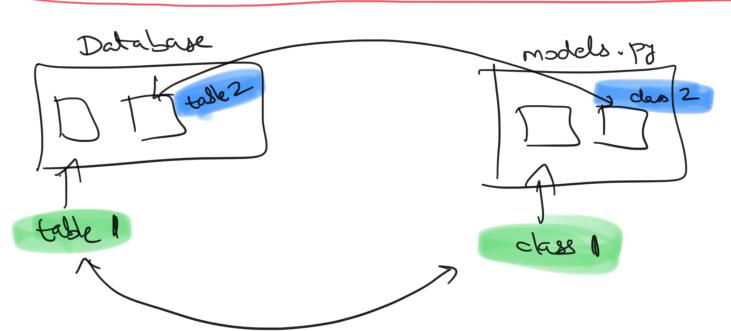
moke method.

ORM (deject relational mapping)

Pothon < Flask-SQLAlchemy > SQL Interact

Models. Py

from flask_sqlalchemy import SQL Alchemy



db = SQL Alchemy ()

class Flight (db. Model):

_ _ table name _ _

- "flights"

Flight class < > flights table.

database

can interact with tables

talles MdG

Add ale to air table id = db. Column (db. Integer, promany key = True) origin = db.Column (db. string, hullable= hullable = False destrator = db. Column (db. string, hullable = hullable = False duration = db. Column (db. Intger) hullable = False

Can create Forigo key also as

new-col = db. Column (db. Intger,

db. Foreign Key ("old-table.ad name") nullable = False) other table which it is referencing

db. create _all () < creates all tables asserted to classes --

I have all classes taller in models or

from flask impost Flask, sender-template, request from models import to classes. app = Flask (_- name _-) app. config ["SQLALCHEMY_ DATABASE_ URI" = OS. get env("DATABASE_ Environment variable app. consig [" SQLALCHEMY_ TRACK_ modifications "] = False

db.init-app (app)

tie

db database

to our

Flack app...

def main ():

db. create_all()

If -name-- = = "_-main_-":

with appo app_ context ():

main()

interact on the armond line, with Flask

if you run they pythonfile, coeales data base -

Inserby data

flight = Flight (NY', Perso', 540) also segion add (flight)

At the end, ab. session commit ()

Query

Flight, query, all ()

Flight - query, filter-by

(visin = NY) all () = returns

ofrest ()

- Jeturns -Thisht sti

count () < how rows? Querying for particular id Flight. query, filter-by (id= a) . first () = 118th, query, get (2) flight = Flight. query, get (6) flight, duration = new-duration also session. delete (flight)

This deletes that row. Flight. query. order-by (Flight. origin). Flight, origin.desc()

Flight. query. filter (

Updating data

more commands

Potes all pours · a(1 () ex 16 Booken expr Flight. origin. like (" /a /.") Flight. origin. in - (["T", "P']) and _ (Bod empr_1, Bool-expr_2) need these SQL Alchemy

Join 2 tables and query

dL. session. query (Flight, Passenger)

of ther (Flight.id == Passenger. flight-id)

oall ()

Add relation shops let tables

passengers = db. relation ship

("Passenger", back ref

= "flight",

the class (azy = True)

Can do flight. passengers for a flight
= Flight()

object-