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Flask-Migrate not creating tables

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Jetzt mitmischen!

I have the following models in file `listpull/models.py`:

```
from datetime import datetime

from listpull import db

class Job(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    list_type_id = db.Column(db.Integer, db.ForeignKey('list_type.id'),
                             nullable=False)
    list_type = db.relationship('ListType',
                               backref=db.backref('jobs', lazy='dynamic'))
    record_count = db.Column(db.Integer, nullable=False)
    status = db.Column(db.Integer, nullable=False)
    sf_job_id = db.Column(db.Integer, nullable=False)
    created_at = db.Column(db.DateTime, nullable=False)
    compressed_csv = db.Column(db.LargeBinary)

    def __init__(self, list_type, created_at=None):
        self.list_type = list_type
        if created_at is None:
            created_at = datetime.utcnow()
        self.created_at = created_at

    def __repr__(self):
        return '<Job {}>'.format(self.id)

class ListType(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    name = db.Column(db.String(80), unique=True, nullable=False)

    def __init__(self, name):
        self.name = name

    def __repr__(self):
        return '<ListType {}>'.format(self.name)
```

I call `./run.py init` then `./run.py migrate` then `./run.py upgrade`, and I see the migration file generated, but its empty:

```
"""empty message

Revision ID: 5048d48b21de
Revises: None
Create Date: 2013-10-11 13:25:43.131937

"""

# revision identifiers, used by Alembic.
revision = '5048d48b21de'
down_revision = None

from alembic import op
import sqlalchemy as sa

def upgrade():
    """ commands auto generated by Alembic - please adjust! """
    pass
    """ end Alembic commands """

def downgrade():
    """ commands auto generated by Alembic - please adjust! """
    pass
    """ end Alembic commands """
```

run.py

```
#!/usr/bin/env python
# -*- coding: utf-8 -*-

from listpull import manager
manager.run()
```

listpull/__init__.py

```
# -*- coding: utf-8 -*-
# pylint: disable-msg=C0103

""" listpull module """

from flask import Flask
from flask.ext.sqlalchemy import SQLAlchemy
from flask.ext.script import Manager
from flask.ext.migrate import Migrate, MigrateCommand
from mom.client import SQLClient
from smartfocus.restclient import RESTClient

app = Flask(__name__)
app.config.from_object('config')

db = SQLAlchemy(app)

migrate = Migrate(app, db)

manager = Manager(app)
manager.add_command('db', MigrateCommand)

mom = SQLClient(app.config['MOM_HOST'],
                app.config['MOM_USER'],
                app.config['MOM_PASSWORD'],
                app.config['MOM_DB'])

sf = RESTClient(app.config['SMARTFOCUS_URL'],
                app.config['SMARTFOCUS_LOGIN'],
                app.config['SMARTFOCUS_PASSWORD'],
                app.config['SMARTFOCUS_KEY'])

import listpull.models
import listpull.views
```

UPDATE

If I run the shell via `./run.py shell` and then do `from listpull import *` and call `db.create_all()`, I get the schema:

```
mark.richman@MBP:~/code/nhs-listpull$ sqlite3 app.db
-- Loading resources from /Users/mark.richman/.sqliterc
SQLite version 3.7.12 2012-04-03 19:43:07
Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .schema
CREATE TABLE job (
  id INTEGER NOT NULL,
  list_type_id INTEGER NOT NULL,
  record_count INTEGER NOT NULL,
  status INTEGER NOT NULL,
  sf_job_id INTEGER NOT NULL,
  created_at DATETIME NOT NULL,
  compressed_csv BLOB,
  PRIMARY KEY (id),
  FOREIGN KEY(list_type_id) REFERENCES list_type (id)
);
CREATE TABLE list_type (
  id INTEGER NOT NULL,
  name VARCHAR(80) NOT NULL,
  PRIMARY KEY (id),
  UNIQUE (name)
);
sqlite>
```

Unfortunately, the migrations still do not work.

python flask flask-sqlalchemy flask-migrate

edited Oct 11 '13 at 20:16

asked Oct 11 '13 at 17:30



Mark Richman

7,711 ●14 ●48 ●99

2 Answers

When you call the `migrate` command Flask-Migrate (or actually Alembic underneath it) will look at your `models.py` and compare that to what's actually in your database.

The fact that you've got an empty migration script suggests you have updated your database to match your model through another method that is outside of Flask-Migrate's control, maybe by calling Flask-SQLAlchemy's `db.create_all()`.

If you don't have any valuable data in your database, then open a Python shell and call

if you don't have any valuable data in your database, then open a python shell and call `db.drop_all()` to empty it, then try the auto migration again.


UPDATE: I installed your project here and confirmed that migrations are working fine for me:

```
(venv)[miguel@miguel-linux nhs-listpull]$ ./run.py db init
Creating directory /home/miguel/tmp/mark/nhs-listpull/migrations...done
Creating directory /home/miguel/tmp/mark/nhs-listpull/migrations/versions...done
Generating /home/miguel/tmp/mark/nhs-listpull/migrations/script.py.mako...done
Generating /home/miguel/tmp/mark/nhs-listpull/migrations/env.pyc...done
Generating /home/miguel/tmp/mark/nhs-listpull/migrations/env.py...done
Generating /home/miguel/tmp/mark/nhs-listpull/migrations/README...done
Generating /home/miguel/tmp/mark/nhs-listpull/migrations/alembic.ini...done
Please edit configuration/connection/logging settings in
'/home/miguel/tmp/mark/nhs-listpull/migrations/alembic.ini' before
proceeding.
(venv)[miguel@miguel-linux nhs-listpull]$ ./run.py db migrate
INFO [alembic.migration] Context impl SQLiteImpl.
INFO [alembic.migration] Will assume non-transactional DDL.
INFO [alembic.autogenerate] Detected added table 'list_type'
INFO [alembic.autogenerate] Detected added table 'job'
Generating /home/miguel/tmp/mark/nhs-listpull/migrations/versions/48ff3456cfd3_.py...done
```

Try a fresh checkout, I think your setup is correct.

edited Oct 11 '13 at 20:34

answered Oct 11 '13 at 17:37

 Miguel

26.2k ● 4 ● 35 ● 63

I deleted `app.db` and the `migrations` directory, and repeated the process. Same effect :(paste2.org/1Vf7Ixyb – Mark Richman Oct 11 '13 at 17:43

Can you add `run.py` and `listpull/__init__.py` files to your question? – Miguel Oct 11 '13 at 18:02

Done..... – Mark Richman Oct 11 '13 at 18:06

Hmm. I can't really spot anything wrong, unless your config is pointing to an existing sqlite database that is somewhere else. Would you happen to have this application on github or somewhere from where I can download it and try it? – Miguel Oct 11 '13 at 18:30

Sure, use github.com/mrichman/nhs-listpull but you'll need a `config.py` which I have in `.gitignore` that contains this line: `SQLALCHEMY_DATABASE_URI = 'sqlite:/// ' + os.path.join(_basedir, 'app.db')` – Mark Richman Oct 11 '13 at 18:40



I just encountered a similar problem. I'd like to share my solution for anyone else encountering this thread. For me I had my models in a package. For example `models/user.py` and I tried `from app.models import *` which did not detect anything on the migrate. However, if i changed the import to `from app.models import user` this is okay why my project is young, but as I have more models a bulk import would be preferable.

edited Oct 22 '13 at 13:11

answered Oct 22 '13 at 5:01

 Mark Richman

7,711 ● 14 ● 48 ● 99

 matchew

8,327 ● 1 ● 21 ● 34