

Can't create MySQL Boolean Field Using flask-sqlalchemy & flask-migrate

Asked 2 years, 10 months ago Active 7 months ago Viewed 2k times

I have a working flask app with few models. The `User` model is as follow...

```
1 class User(UserMixin, db.Model):
    id = db.Column(db.Integer, primary_key=True)
    username = db.Column(db.String(64), index=True, unique=True)
    email = db.Column(db.String(128), index=True, unique=True)
    password_hash = db.Column(db.String(128))
    first_name = db.Column(db.String(32))
    last_name = db.Column(db.String(32))
    bio = db.Column(db.String(255))
    patterns = db.relationship('Pattern', backref='user', lazy='dynamic')
```

Now I want to add a new boolean column to the model. I'm utilizing MySQL as a database. I have tried the following...

```
invited = db.Column(db.Boolean, default=0)
```

but when I run `flask db migrate` I get the following...

```
INFO [alembic.runtime.migration] Context impl MySQLImpl.
```

I also tried

```
from sqlalchemy import BOOLEAN # also with Boolean
...
invited = db.Column(BOOLEAN, default=0) # also with Boolean
```

but get the same error. Reading MySQL documentation found out that MySQL doesn't have boolean type rather `TINYINT`. But reading this [Github](#) thread I understand that the Boolean class will turn into `TINYINT` based on the dialect. So I did the following...

```
from sqlalchemy.dialect.mysql import BOOLEAN
```

Your privacy

By clicking "Accept all cookies", you agree Stack Exchange can store cookies on your device and disclose information in accordance with our [Cookie Policy](#).

Accept all cookies

Customize settings

[Share](#) [Improve this question](#) [Follow](#)

edited Oct 31 '18 at 2:08

asked Oct 31 '18 at 1:51

[Gilbert](#)**3,461**[6](#)[27](#)[47](#)

2 Answers

[Active](#)[Oldest](#)[Votes](#)

Try below, I'm assuming Flask migrate is not recognizing `db.Column(BOOLEAN, default=0)`.

1

```
a_boolean_field = db.Column(db.Boolean(), default=False)
```



I've just tested it and above works and Flask-Migrate was able to detect it.

[Share](#) [Improve this answer](#) [Follow](#)

answered Nov 2 '18 at 21:24

[Jessi](#)**1,178**[4](#)[16](#)[35](#)

It does work with `sqlite3` but not with `mysql`. When I change to `mysql` I get the following... INFO [alembic.runtime.migration] Context impl MySQLImpl. INFO [alembic.runtime.migration] Will assume non-transactional DDL. – [Gilbert](#) Nov 3 '18 at 2:28



You can do it like so

0

```
from sqlalchemy import Boolean, Column
```



```
invited = Column(Boolean, nullable=False, default=False)
```



this should work with MySQL.

[Share](#) [Improve this answer](#) [Follow](#)

edited Feb 3 at 21:28

[Mat](#)**2,121**[2](#)[23](#)[33](#)

answered Feb 3 at 18:15

[Shadik Ntale](#)**1**[1](#)

Your privacy

By clicking "Accept all cookies", you agree Stack Exchange can store cookies on your device and disclose information in accordance with our [Cookie Policy](#).

[Accept all cookies](#)[Customize settings](#)