

Flask SQLAlchemy Foreign Key Relationships

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I'm having a lot of trouble getting my head around foreign keys and relationships in SQLAlchemy. I have two tables in my database. The first one is `Request` and the second one is `Agent`. Each `Request` contains one `Agent` and each `Agent` has one `Request`.



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```
class Request(db.Model):
    __tablename__ = 'request'
    reference = db.Column(db.String(10), primary_key=True)
    applicationdate = db.Column(db.DateTime)
    agent = db.ForeignKey('request.agent'),

class Agent(db.Model):
    __tablename__ = 'agent'
    id = db.relationship('Agent', backref='request', \
        lazy='select')
    name = db.Column(db.String(80))
    company = db.Column(db.String(80))
    address = db.Column(db.String(180))
```

When I am running `db.create_all()` I get the following error

Could not initialize target column for ForeignKey 'request.agent' on table 'applicant': table 'request' has no column named 'agent'

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edited Jan 10 '17 at 15:03

asked Jan 10 '17 at 12:46

davidism

77k ● 15 ● 231 ● 233



user6723321

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Have a look at the [SqlAlchemy documentation on OneToOne relationships](#). First you need to supply a primary key for each Model. Then you need to define one foreign key which refers to the Primary Key of the other model. Now you can define a relationship with a backref that allows direct access to the related model.

```
class Request(db.Model):
    __tablename__ = 'request'
    id = db.Column(db.Integer, primary_key=True)
    applicationdate = db.Column(db.DateTime)

class Agent(db.Model):
    __tablename__ = 'agent'
    id = db.Column(db.Integer, primary_key=True)
    request_id = Column(Integer, ForeignKey('request.id'))
    request = relationship("Request", backref=backref("request", uselist=False))

    name = db.Column(db.String(80))
    company = db.Column(db.String(80))
    address = db.Column(db.String(180))
```

Now you can access your models like this:

```
request = Request.query.first()
print(request.agent.name)

agent = Agent.query.first()
print(agent.request.applicationdate)
```

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answered Jan 10 '17 at 12:57



MrLeeh

3,294 ● 3 ● 19 ● 35

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