## Solution: Inserting Pets

In this lesson, we will look at the solution to inserting pets in the database.

## WE'LL COVER THE FOLLOWING ^

- Solution
- Explanation

## Solution #

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"""Flask Application for Paws Rescue Center.""
from flask import Flask, render template, abort
from forms import SignUpForm, LoginForm
from flask import session, redirect, url_for
from flask_sqlalchemy import SQLAlchemy
app = Flask( name )
app.config['SECRET_KEY'] = 'dfewfew123213rwdsgert34tgfd1234trgf'
app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///paws.db'
db = SQLAlchemy(app)
"""Model for Pets."""
class Pet(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    name = db.Column(db.String, unique=True)
    age = db.Column(db.String)
    bio = db.Column(db.String)
    posted_by = db.Column(db.String, db.ForeignKey('user.id'))
"""Model for Users."""
class User(db.Model):
    id = db.Column(db.Integer, primary_key=True)
   full_name = db.Column(db.String)
   email = db.Column(db.String, unique=True)
    password = db.Column(db.String)
    pets = db.relationship('Pet', backref = 'user')
db.create_all()
# Create "team" user and add it to session
team = User(full_name = "Pet Rescue Team", email = "team@petrescue.co", password = "adminpass
db.session.add(team)
# Create all pets
```

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nelly = Pet(name = "Nelly", age = "5 weeks", bio = "I am a tiny kitten rescued by the good pe
yuki = Pet(name = "Yuki", age = "8 months", bio = "I am a handsome gentle-cat. I like to dres
basker = Pet(name = "Basker", age = "1 year", bio = "I love barking. But, I love my friends m
mrfurrkins = Pet(name = "Mr. Furrkins", age = "5 years", bio = "Probably napping.")
# Add all pets to the session
db.session.add(nelly)
db.session.add(yuki)
db.session.add(basker)
db.session.add(mrfurrkins)
# Commit changes in the session
    db.session.commit()
except Exception as e:
   db.session.rollback()
finally:
   db.session.close()
"""Information regarding the Pets in the System."""
pets = [
            {"id": 1, "name": "Nelly", "age": "5 weeks", "bio": "I am a tiny kitten rescued
            {"id": 2, "name": "Yuki", "age": "8 months", "bio": "I am a handsome gentle-cat.
            {"id": 3, "name": "Basker", "age": "1 year", "bio": "I love barking. But, I love
            {"id": 4, "name": "Mr. Furrkins", "age": "5 years", "bio": "Probably napping."},
@app.route("/")
def homepage():
    """View function for Home Page."""
    return render_template("home.html", pets = pets)
@app.route("/about")
def about():
    """View function for About Page."""
    return render template("about.html")
@app.route("/details/<int:pet id>")
def pet_details(pet_id):
    """View function for Showing Details of Each Pet."""
    pet = next((pet for pet in pets if pet["id"] == pet_id), None)
    if pet is None:
        abort(404, description="No Pet was Found with the given ID")
    return render_template("details.html", pet = pet)
@app.route("/signup", methods=["POST", "GET"])
def signup():
    """View function for Showing Details of Each Pet."""
    form = SignUpForm()
    if form.validate on submit():
        new_user = User(full_name = form.full_name.data, email = form.email.data, password =
        db.session.add(new_user)
        try:
            db.session.commit()
        except Exception as e:
            print(e)
            db.session.rollback()
            return render template("signup.html", form = form, message = "This Email already
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finally:
            db.session.close()
        return render_template("signup.html", message = "Successfully signed up")
   return render_template("signup.html", form = form)
@app.route("/login", methods=["POST", "GET"])
def login():
   form = LoginForm()
   if form.validate_on_submit():
        user = User.query.filter_by(email = form.email.data, password = form.password.data).f
        if user is None:
            return render_template("login.html", form = form, message = "Wrong Credentials.
       else:
            session['user'] = user.id
            return render_template("login.html", message = "Successfully Logged In!")
   return render_template("login.html", form = form)
@app.route("/logout")
def logout():
   if 'user' in session:
       session.pop('user')
   return redirect(url_for('homepage', _scheme='https', _external=True))
if __name__ == "__main__":
   app.run(debug=True, host="0.0.0.0", port=3000)
```

## **Explanation** #

For the solution to this challenge, we created four Pet objects in **lines 36 to**39. These pets have the same column values as given in the pets list.

Then, we added all these objects in the database session by using db.session.add(). Next, we committed the changes from the session to the database using db.session.commit() in line 49. As this statement is in the tryexcept block, all the exceptions will also be handled here.

In this challenge, we just wanted to **populate the database** with some pets. However, in the next challenge, we will be modifying the <a href="homepage">homepage</a> and <a href="pet\_details">pet\_details</a> views to **retrieve the pets** that we just inserted!