Python/PostgreSQL Exercise 5

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5. SQL Code:

```python
from flask import Flask, render_template, request
from flask_sqlalchemy import SQLAlchemy


app = Flask(__name__)


app.config['SQLALCHEMY_DATABASE_URI']='postgresql://postgres:1234@localhost/demoDB'
db = SQLAlchemy(app)


# Define db model
class Data(db.Model):
    __tablename__ = "customers"
    id = db.Column(db.Integer, primary_key=True)
    firstname = db.Column(db.String(120))
    lastname = db.Column(db.String(120))
    email = db.Column(db.String(120), unique = True)
    total = db.Column(db.Numeric)

    def __init__(self, firstname, lastname, email, total):
        self.firstname = firstname
        self.lastname = lastname
        self.email = email
        self.total = total


# Homepage when the application runs.
```

```python
@app.route("/")

def home():
    return render_template("index.html")


@app.route("/cartPage")

def cart():
    return render_template("cartPage.html")


@app.route("/completedOrder")
def orderComplete():
    return render_template("completedOrder.html")


# Handles the homepage when the form is submitted
# request.method == "POST" is collecting the data of the form when the submit
button is clicked.
@app.route("/cartPage", methods=["POST"])
def thankyou():
    if request.method == "POST":
        firstname = request.form["fName"]
        lastname = request.form["lName"]
        email = request.form["email"]
        total = request.form["orderTotal"]
        print(request.form)

    # Last Step: commit - collect and send data to database
    data = Data(firstname, lastname, email, total)
    db.session.add(data)
    db.session.commit() # Execute the data into database
```

```
        return render_template("completedOrder.html")


if __name__ == "__main__":

    app.run()

    app.debug = True
```

Screenshot of *customers* table:

| | id<br>[PK] integer | firstname<br>character varying (120) | lastname<br>character varying (120) | email<br>character varying (120) | total<br>numeric |
|---|---|---|---|---|---|
| 1 | 1 | Eunsu | Kim | eunsu.kim1@baruchm... | 58 |
| 2 | 2 | David | Kim | david1234@gmail.com | 70 |
| 3 | 3 | Peter | Parker | peterparker@hotmail.c... | 8 |
| 4 | 4 | Harry | Potter | harrypotter@aol.com | 68 |