1. Overview

2. DB Drivers
    2.1 psycopg2 - used to connect to the DB
        pip install psycopg2

3. Django ORM(Object Relational Mapping)
    class test_table(models.Model:
        test = models.CharField()
        count = models.IntegerField()

                    --->

    test_table
    id   int
    test varchar
    cout int

    class Task(models.Model):
        name = models.CharField(max_length = 100)
        project = models.CharField(max_length = 50)

    from tasks import models
    models.Task
    models.Task.objects.create(name='Test Project', project='First Project')

    pip install Django
    django-admin startproject my_first_project
    pip freeze > requirements.txt
    python manage.py --help
    python manage.py runserver
    python manage.py makemigrations
    python manage.py migrate
    python manage.py createsuperuser
    python manage.py startapp tasks
    python manage.py showmigrations - lists both applied and unapplied migrations

    3.1. Popular ORM Tools for Python:
        - Django
        - web2py - an open source full-stack Python framework
        - SQLObject - an ORM that provides an object interface to your DB
        - SQLAlchemy - provides persistant patterns designed for efficient and high-performing DB access
        - dbshell - generate SQL

    3.2. Migrations - used to apply changes to our tables in the DB

4. Django dbshell
    python manage.py dbshell
    \dt - shows all tables in the current DB
    \d <table_name> - shows a specific table
    SELECT * FROM <table_name>

    #################
    ADDITIONAL INFO:
    refactoring.guru/design-patterns