

# Connecting Python Script to MySQL Using Django ORM (Without Full Project)

## 1. Install Requirements

```
bash
pip install django mysqlclient
```

Or use:

```
bash
pip install pymysql
```

## 2. Folder Structure

```
orm_demo/
  ■■■ settings.py
  ■■■ models.py
  ■■■ script.py
```

## 3. settings.py

```
python
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql', # or 'django.db.backends.mysql'
        'NAME': 'your_db',
        'USER': 'your_user',
        'PASSWORD': 'your_password',
        'HOST': 'localhost',
        'PORT': '3306',
    }
}
INSTALLED_APPS = ['app']
SECRET_KEY = 'dummy'
```

## 4. models.py

```
python
from django.db import models

class Student(models.Model):
    name = models.CharField(max_length=100)
    age = models.IntegerField()

    class Meta:
        app_label = 'app'
```

## 5. script.py

```
python
import os
import django
from django.conf import settings
import pymysql # Only if using PyMySQL

pymysql.install_as_MySQLdb() # Only if using PyMySQL

os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'settings')

django.setup()
```

```
from models import Student
from django.core.management import call_command

# Create/migrate DB tables
call_command('makemigrations', 'app')
call_command('migrate')

# Insert sample record
Student.objects.create(name="Aman", age=23)

# Fetch and display
for student in Student.objects.all():
    print(student.name, student.age)
```

## 6. Run the Script

Run the script normally:

```
python script.py
```