

## Create simple tables oin postgresql database using Django framework.

1. GO TO SETTINGS.PY
2. add module in INSTALLED\_APPS
3. ADD POSTGRES DATABASE DETAILS IN DATABASES

for example:-

```
DATABASES = {  
    'default': {  
        'ENGINE': 'django.db.backends.postgresql',  
        'NAME': 'employedb',  
        'USER': 'postgres',  
        'PASSWORD': 'Svsm4142',  
        'HOST': 'localhost'  
    }  
}
```

- 4.in terminal write this command

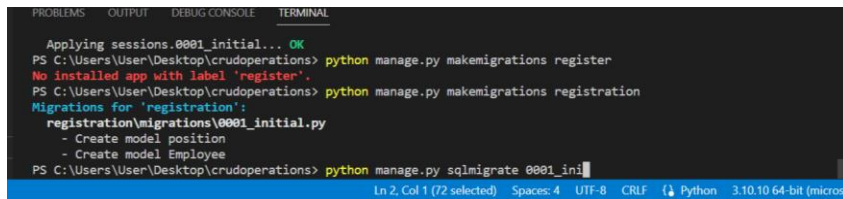
```
python manage.py migrate
```

- 5.in project in app create classes in models.py and this classes create table in postgres

for example:

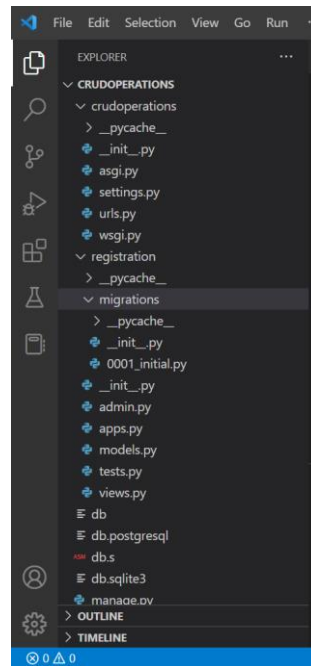
```
class employee(models.Model):  
    fullname=models.CharField(max_length=100)  
    emp_code=models.CharField(max_length=3)  
    Mobile_no=models.CharField(max_length=10)  
    position=models.ForeignKey(position,on_delete=models.CASCADE) #set  
foreign key when this field data is deleted then also position data deleted  
  
class position(models.Model):  
    title=models.CharField(max_length=15)
```

6. after that go to terminal and write the command:-python manage.py makemigrations registration here,registration is app name



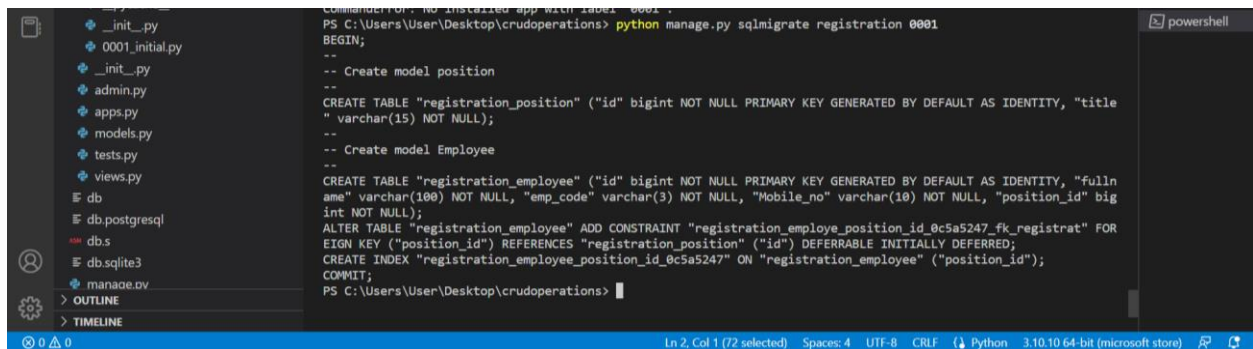
```
Applying sessions.0001_initial... OK
PS C:\Users\User\Desktop\crudoperations> python manage.py makemigrations register
No installed app with label 'register'.
PS C:\Users\User\Desktop\crudoperations> python manage.py makemigrations registration
Migrations for 'registration':
  registration\migrations\0001_initial.py
    - Create model position
    - Create model Employee
PS C:\Users\User\Desktop\crudoperations> python manage.py sqlmigrate 0001_ini
```

after execute this command successfully,migrations folder is create in your app



7.after that write a command in terminal:-

**Python manage.py sqlmigrate registrtrion 0001**



```
CommandError: No installed app with label '0001'.
PS C:\Users\User\Desktop\crudoperations> python manage.py sqlmigrate registration 0001
BEGIN;
--
-- Create model position
--
CREATE TABLE "registration_position" ("id" bigint NOT NULL PRIMARY KEY GENERATED BY DEFAULT AS IDENTITY, "title"
 varchar(15) NOT NULL);
--
-- Create model Employee
--
CREATE TABLE "registration_employee" ("id" bigint NOT NULL PRIMARY KEY GENERATED BY DEFAULT AS IDENTITY, "fulln
 ame" varchar(100) NOT NULL, "emp_code" varchar(3) NOT NULL, "Mobile_no" varchar(10) NOT NULL, "position_id" big
 int NOT NULL);
ALTER TABLE "registration_employee" ADD CONSTRAINT "registration_employee_position_id_8c5a5247_fk_registrat" FOR
 EIGN KEY ("position_id") REFERENCES "registration_position" ("id") DEFERRABLE INITIALLY DEFERRED;
CREATE INDEX "registration_employee_position_id_8c5a5247" ON "registration_employee" ("position_id");
COMMIT;
PS C:\Users\User\Desktop\crudoperations>
```

8.after that write this command in terminal:-

**Python manage.py migrate**

This command create table in postgress like this:-

