Relationship Models

Q. What is CASCADE ?

Create Relation

Inside App (models.py)

from   django.db import models

from   django.utils import timezone

from   django.contrib.auth.models import User

```
class    lession6 (models.Model):
         LESSION_CHOICE = [
                 ('lession1' , '1'),
                 ('lession2' , '2'),
                 ('lession 3' , '3'),
                  ('lession4' , '4'),
         ]
         name = models.CharField (Max_length = 100)
         image = models.ImageField (upload_to = 'lession/ ')
         date_added = models.DateTimeField (default = timezone.now)
         type = models.CharField (max_length = 30, choices = LESSION_CHOICE)
         discription = models.TextField ( max_length = 200)
         def __str__ (self):
                 return self.name
```

```python
# One to Many
class lessionReview ( models. Model):
    lession = models. ForeignKey (lession6 , on_delete = models.CASCADE , related_name
                                                                    = 'reviews')
    user = models. Foreignkey (User , on_delete = models.CASCADE)
    rating = models. IntegerField()
    date_added = models .DateTimeField (default = timezone . now)


    def __str__ (self ):
        return f' {self. user. username} review for {self. lession.name}'



# Many to many
class Store (models. Model):
    name = models. CharField (max_length = 100)
    location = models. CharField (max_length = 100)
    lession_list = models. ManyToManyField ( lession6, related_name = 'lessions')



    def __str__ (self):
        return self. name



# One to one
class lessionCertificate ( models. Model):
    lession = models. OneToOne Field (lession6 , on_delete = models. CASCADE ,
                related_name = 'certificate')
    certificate_number = models. CharField (max_length=100)
    issued_date = models. DateTime Field (default = timezone . now)
    valid_untill = models. DateTime Field()
    def __str__ (self):
        return f' Certificate for {self. name . lession}'
```

App (in admin. py)

```python
from django.contrib import admin
from .models import lession6, Jession Review, Stone, Jession Certificate

class lession ReviewInlineAdmin (admin, TabularInline):
    model = Jession Review
    extra = 2

class Jession Veriety Admin (admin. Model Admin):
    list_display = ('name', 'type', 'date_added')
    inlines = [lession ReviewInline Admin]

class Stone Admin (admin. Model Admin):
    list_display = ('name', 'location')
    filter_horizontal = ('lession_list',)

class Jession Certificate Admin (admin. Model Admin):
    list_display = ('Jession', 'certificate_number')
```

must be same on models variables name

```python
admin.site.register (Jession6, Jession Veriety Admin)
admin.site.register ( Stone, Stone Admin)
admin.site.register (Jession Certificate, Jession Certificate Admin )
```

Note

Don't forget for migrate