

Understand

Managers in Django Model Layer



Intro of Model Managers

In Django, a model managers is responsible to perform database query operations like create, read, update, delete and provides many more features.

At least one manager, is associate with each model, which is objects.

```
from django.db import models

class Student(models.Model):
    name = models.CharField(max_length=100)
    email = models.EmailField(max_length=277)
```

objects = models.Manager()

Manager name

Manager class

Django by default, create this objects as
a manager name in every model.

However, you don't need to define this.

Return all student objects

```
student = Student.objects.all()
```

Model

Manager

Manager Method

built-in method in
/ manager class

Rename manager name

If you want to use a name other than objects for the Manager, you can rename it

- on a per-model basis.

```
from django.db import models

class Student(models.Model):
    name = models.CharField(max_length=100)
    email = models.EmailField(max_length=277)

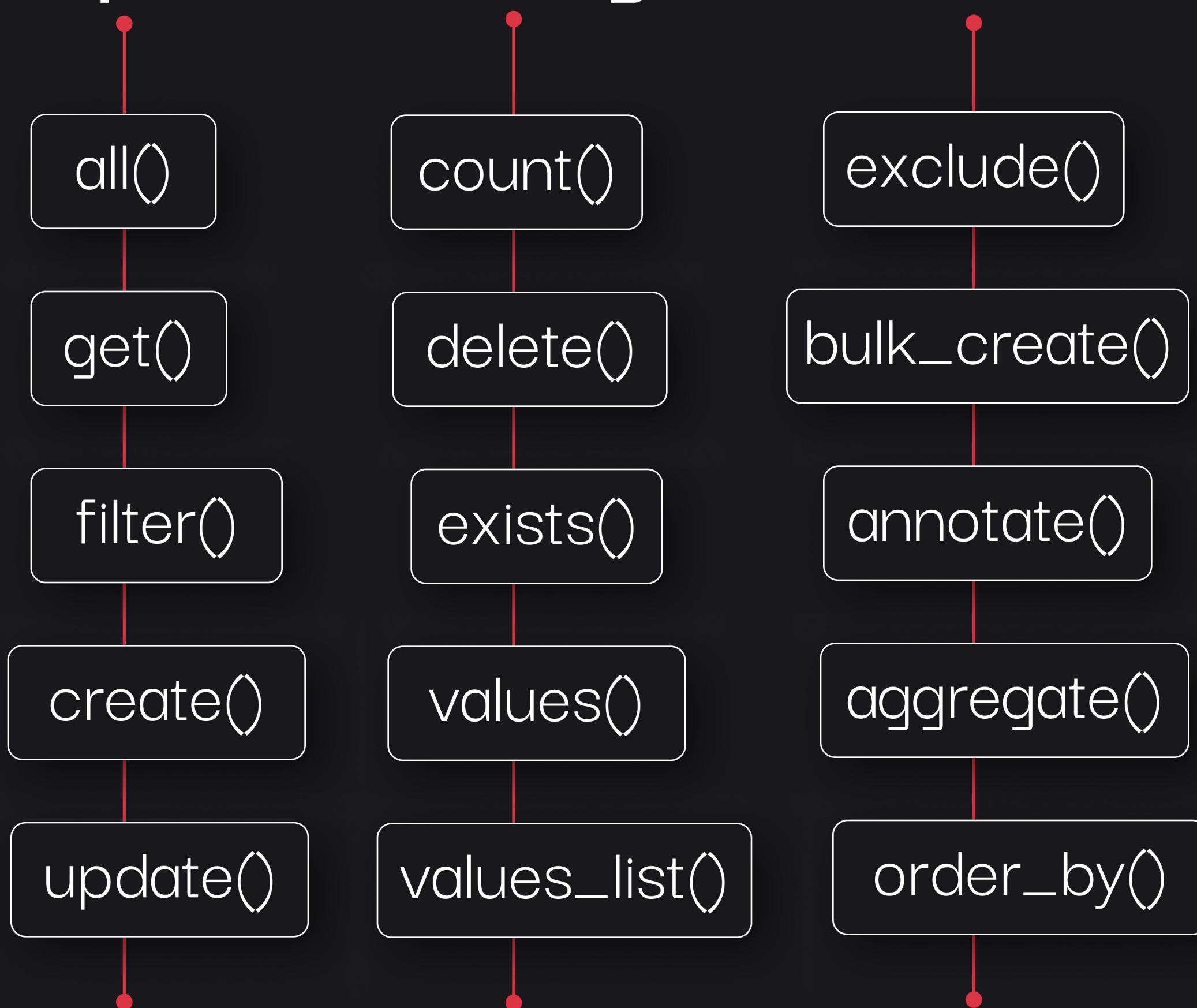
→ student = models.Manager()
```

```
student = Student.student.all()
```

Built-in Manager Methods

Django Model Manager class provides a varieties of built-in methods, that you can use to query your models and perform database operations.

Popular Manager Methods



Custom Manager

Django let's give you feature to create your own custom manager by just inherit the Manager class and even you create custom methods.

Here we create Author and Editor two custom manager, by just inherit Manager class and here we have overrirde the get_queryset method to return the data based on their roles

```
from django.db import models

class AuthorManager(models.Manager):
    def get_queryset(self):
        return super().get_queryset().filter(role="A")

class EditorManager(models.Manager):
    def get_queryset(self):
        return super().get_queryset().filter(role="E")

class Person(models.Model):
    choices = (( "A", "Author"), ( "E", "Editor"))

    first_name = models.CharField(max_length=50)
    last_name = models.CharField(max_length=50)
    role = models.CharField(max_length=1, choices=choices)

    objects = models.Manager() # default manager
    authors = AuthorManager() # author manager
    editors = EditorManager() # editor manager
```

and here in our model, we have added our custom managers

This will return person whose role is author

```
Person.authors.all()
```

This will return person whose role is editor

```
Person.editors.all()
```

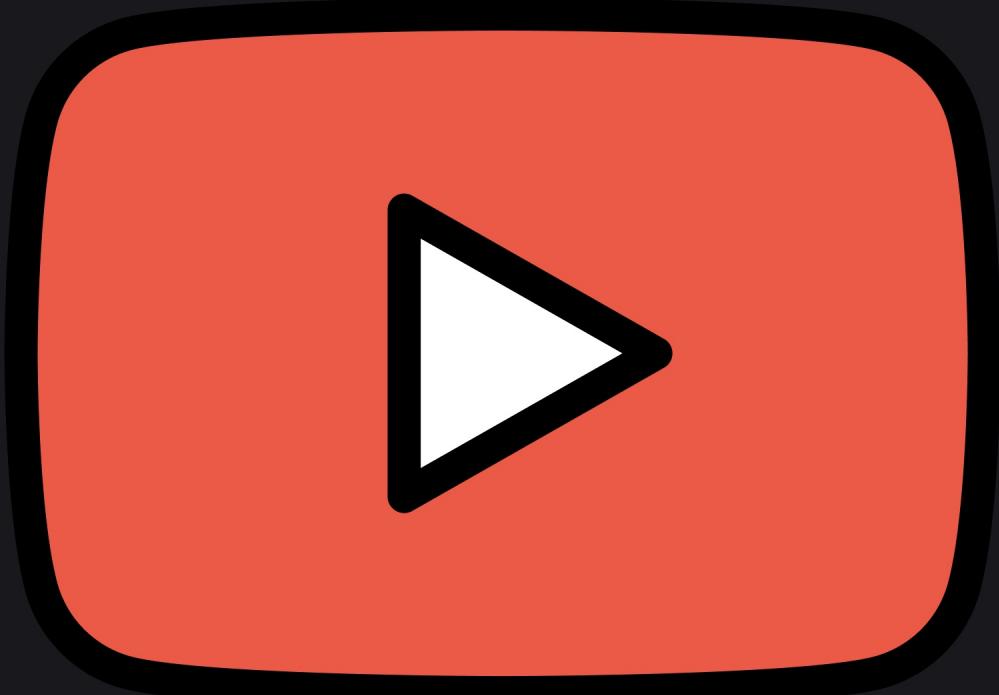
This will return all person whose role is either
author or editor

```
Person.objects.all()
```

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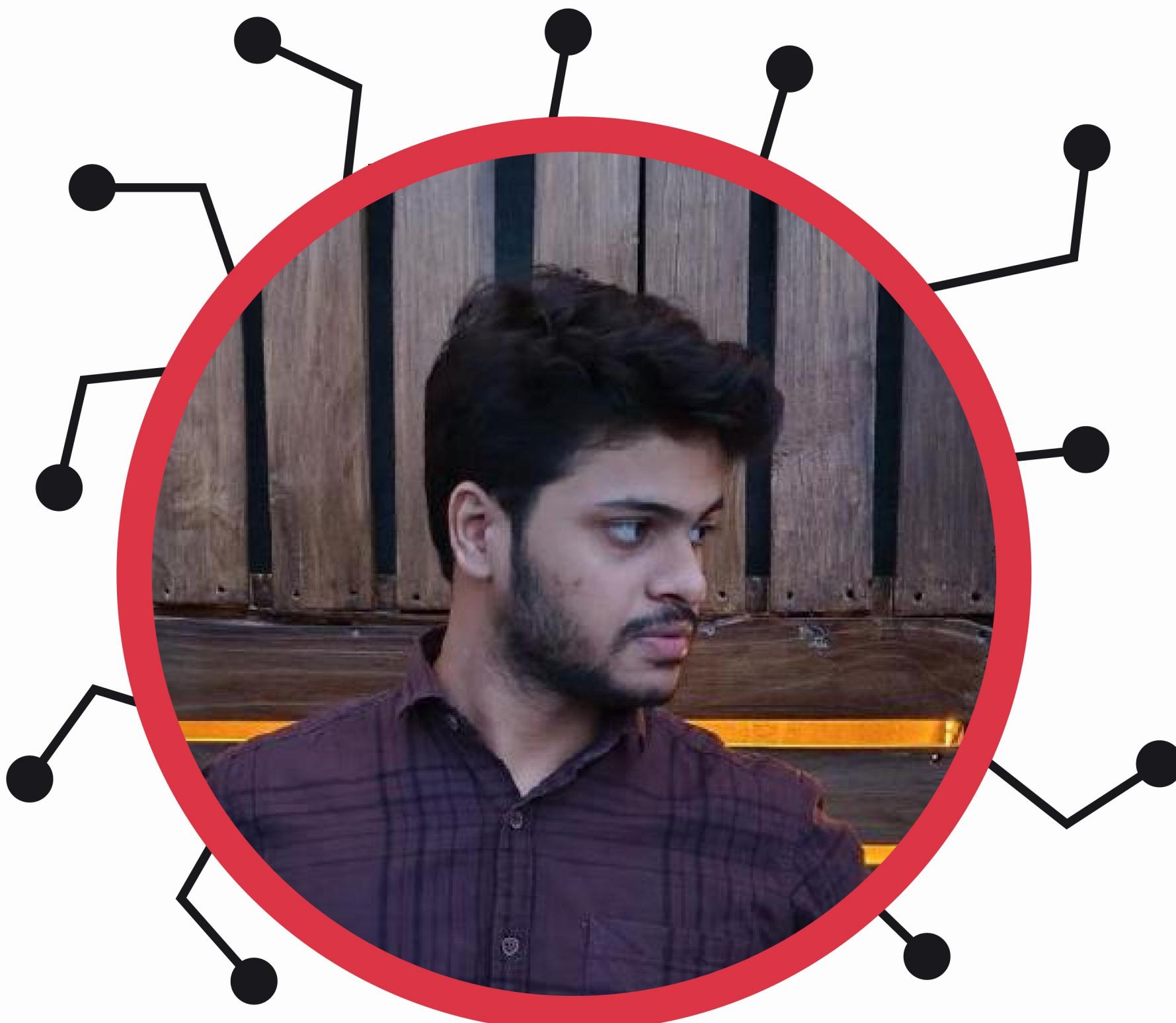
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