

charfield : used for fixed length of character
textfield : used for storing variable length of character

difference between charfield and textfield

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1. CharField
2. TextField
3. DateField
4. TimeField
5. DateTimeField
6. SlugField
7. ImageField
8. EmailField
9. FileField
10. JSONField
11. URLField
12. ForeignKey
13. ManyToManyField
14. OneToOneField
and many others.

Some Model Field Types Available to Use

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Visit [Django Documentation](#) for more model field types

Some Model Field Options Available to Use

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1. null
2. blank
3. choices
4. default
5. editable
6. error_messages
7. help_text
8. primary_key
9. unique
10. verbose_name

and many more

[Visit Official Documentation for more model field options](#)

`null = True` in the database we can have null values

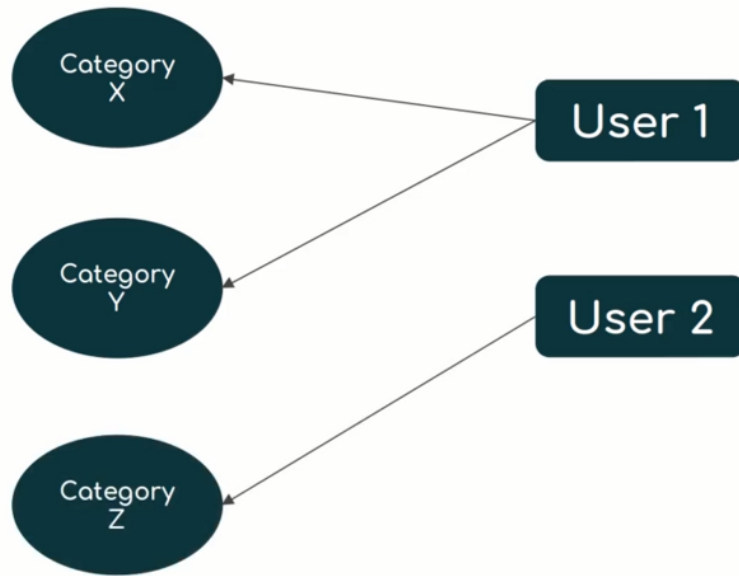
`blank = True` when a user doesn't enter any value in the field don't raise any error

`auto_now = True` update

`auto_now_add = True` create

Many to One Relationships

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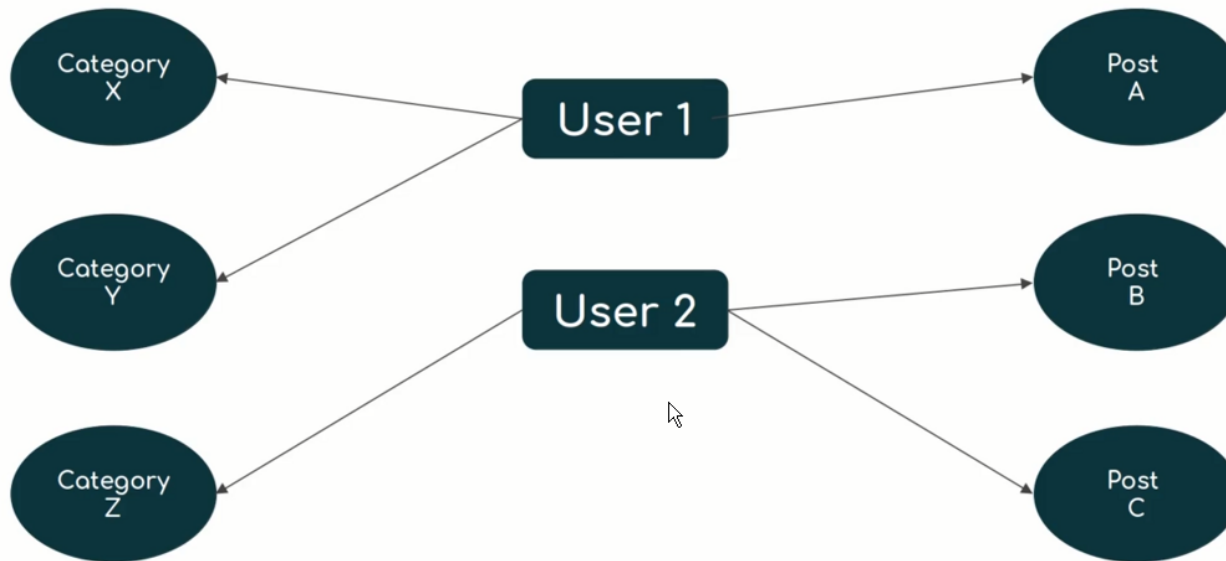
Many to One Relationships

one user can create multiple post

one post can be created by one user

`created_by=models.ForeignKey
(User,on_delete=models.Cascade)`

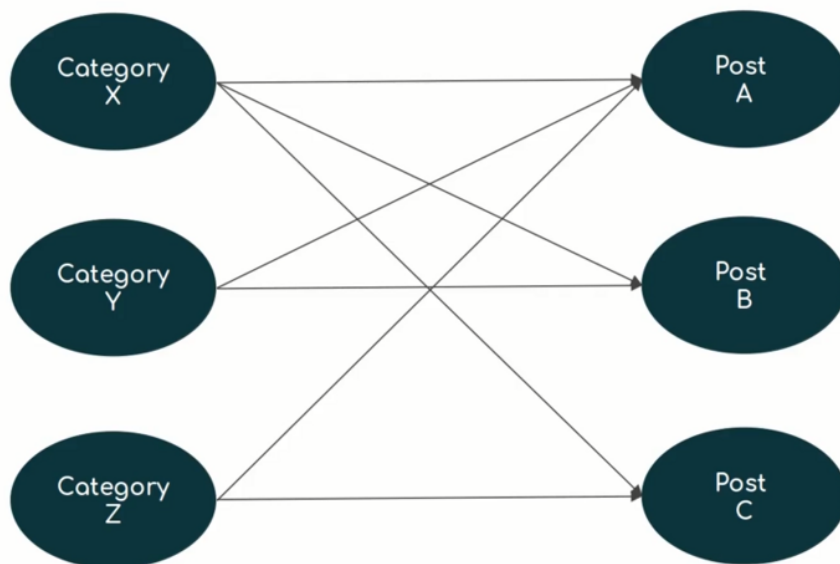
when the user is deleted it also
delete corresponding objects



Many to Many Relationships

one category can have multiple post

one post can belongs to many category



Primary Key & Verbose Field Name

- By default, Django gives each model an auto-incrementing primary key with the type specified per app in `AppConfig.default_auto_field` or globally in the `DEFAULT_AUTO_FIELD` setting.
- For example: `id = models.BigAutoField(primary_key=True)`
- If you'd like to specify a custom primary key, specify `primary_key=True` on one of your fields.
- If Django sees you've explicitly set `Field.primary_key`, it won't add the automatic id column.
- Each model requires exactly one field to have `primary_key=True` (either explicitly declared or automatically added).

