By defaultly all fields are not null.

AutoField() :-

An IntegerField that automatically increments according to available Ids. It starts from 1 to n.
default_parameters:-( )

BigAutoField() :-

it is same as AutoField() . It start from. From 1 to 9223372036854775807
default_parameters:-()

BinaryField():- it store the data in binary formate.

default_parameters:-()

BigIntegerField():- it also an integer field its range from (-9223372036854775807 ,9223372036854775807). it accepts numbers only
default_parameters:-()

BooleanField():- it ia boolian field .it stores True/False or 0/1.
it is check box in django admin dashboard.
default_parameters:-()

CharField():- it is a varachr field .it can store
numbers,charcters,letters. But we must pass the length .
default_parameters:-(max_length=int)

DateField():- it store the date.
default_parameters:-(*auto_now=False,auto_now_add=False ...etc*)
here auto_now =True :- it stores the correct date when ever the recordes change.
auto_now_add=True   :- Whenever the record stored it adds correct date defaultly.

DateTimeField():- it is similar to dateField.it store date along with the time
default_parameters:-(*auto_now=False,auto_now_add=False …etc*)
here auto_now =True :- it stores the correct datetime when ever the recordes change.
 auto_now_add=True   :- Whenever the record stored it adds correct datetime defaultly.

DecimalField():- it store the decimal values.we must pass the two parameters
default_parameters:-(max_digts=int,decimal_places=int)
max_digits   :- The maximun number of digits allowed in the number.
decimal_places :-The number of decimal places to store with the number.

DurationField():-
default_parameters:-()

EmailField():-it is also a charField.but its max_length is high.
default_parameters:-(max_length=245)

FileField() :-
default_parameters:-()

FilePathField():-
default_parameters:-()

FloatField():- it stores the floating point numbers eventhough we store the integers.
default_parameters:-()

ImageField():- it store the address of the image.it is a chafield. But we must pass the some parameters.
default_parameters:-(upload_to=directory_name)
 upload_to :- it save the image in the given directory and it holds

the file name.

IntegerField():- it stores a number in the range of
(-2147483648,2147483648)
default_parameters:-()

GenericIPAddressField():-
default_parameters:-()

NullBooleanField():- it is same as boolField.but it have default
parameter in-builtly null=True
default_parameters:-()

PositiveIntegerField():- it stores +ve numbers from 0 to
2147483647
default_parameters:-()

PositiveSmallIntegerField():- it stores +ve numbers from 0 to
32767
default_parameters:-()

SlugField() :- it is a chafield.but it have default parameter
in-builtly max_length=50. Generally it is used to
store urls.
default_parameters:-()

TextField()   :- it is a chafield.but it have default parameter
in-builtly max_length=2000.
default_parameters:-()

TimeField() :- it stores the time.
default_parameters:-(auto_now =True,auto_now_add=True)
auto_now =True :- it stores the correct time when ever
the recordes change.
auto_now_add=True   :- Whenever the record stored it adds
correct time defaultly.

URLField() :- it is a chafield.but it have default parameter
in-builtly max_length=200.
default_parameters:-()

UUIDField() :-it is a chafield.but it have default parameter
in-builtly max_length=32.

default_parameters:-()
ForeignKey() :-
default_parameters:-()

ManyToManyField() :-

OneToOneField() :-

Field Options

1.null=True/False.

If True, Django will store empty values as NULL in the database. Default is False.

Note:-Avoid using **null** on string-based fields such ChrField and TextField

2.blank=True/False.

If True, the field is allowed to be blank. Default is False.

Note:- it it is True this field is optional.

3.choices

it gives options to select.we must this options only

syntax:-
  options_name = [

    ('FR', 'Freshman'),
    ('SO', 'Sophomore'),
    ('JR', 'Junior'),
    ('SR', 'Senior'),
    ('GR', 'Graduate'),
]

we must place the options in tuple.in tha tuple first one showes when we inserte the data but in database it stores the second one.

cl_name= models.___Field(choice=options_name)

similarly
```
MEDIA_CHOICES = [
    ('Audio', (
            ('vinyl', 'Vinyl'),
            ('cd', 'CD'),
        )
    ),
    ('Video', (
            ('vhs', 'VHS Tape'),
            ('dvd', 'DVD'),
        )
    ),
    ('unknown', 'Unknown'),
]
```

4.db_column

The name of the database column to use for this field. If this isn't given, Django will use the field's name.

cl_name =models.__field(db_column='mahi')
 now c_name is replaced with mahi

5.db_index=True/False

 If True, a database index will be created for this field. By default it is False.

6.default

The default value for the field. This can be a value or a callable object. If callable it will be called every time a new object is created.

Models.__Field(default=value/int/fun())

7.editable

If False, the field will not be displayed in the admin or any other **ModelForm**. They are also skipped during **model validation**. Default is True

 eg:- id

8.error_messages

9.help_text

10.primary_key=True/False

it is combination of not null and unique.

11.unique=True/False

it allows unique values only.

12.auto_now_add :- it stores the correct datetime

/date /timewhenever the recordes changes /updated.

13.auto_now_add=True :- Whenever the record stored it adds correct datetime/time/date defaultly.