(djangoPy3Env) Homes-MacBook-Pro-2:django\_fundamentals home$ django-admin startproject books\_authors

(djangoPy3Env) Homes-MacBook-Pro-2:django\_fundamentals home$ cd books\_authors

(djangoPy3Env) Homes-MacBook-Pro-2:books\_authors home$ mkdir apps

(djangoPy3Env) Homes-MacBook-Pro-2:books\_authors home$ cd apps

(djangoPy3Env) Homes-MacBook-Pro-2:apps home$ touch \_\_init\_\_.py

(djangoPy3Env) Homes-MacBook-Pro-2:apps home$ python ../manage.py startapp books\_authors\_app

(djangoPy3Env) Homes-MacBook-Pro-2:apps home$ ls

\_\_init\_\_.py books\_authors\_app

(djangoPy3Env) Homes-MacBook-Pro-2:apps home$ cd ..

(djangoPy3Env) Homes-MacBook-Pro-2:books\_authors home$ ls

apps books\_authors manage.py

(djangoPy3Env) Homes-MacBook-Pro-2:books\_authors home$ python manage.py makemigrations

**Migrations for 'books\_authors\_app':**

**apps/books\_authors\_app/migrations/0001\_initial.py**:

- Create model Author

- Create model Book

- Add field books to author

(djangoPy3Env) Homes-MacBook-Pro-2:books\_authors home$ python manage.py migrate

**Operations to perform:**

**Apply all migrations:** admin, auth, books\_authors\_app, contenttypes, sessions

**Running migrations:**

Rendering model states... **DONE**

Applying contenttypes.0001\_initial... **OK**

Applying auth.0001\_initial... **OK**

Applying admin.0001\_initial... **OK**

Applying admin.0002\_logentry\_remove\_auto\_add... **OK**

Applying contenttypes.0002\_remove\_content\_type\_name... **OK**

Applying auth.0002\_alter\_permission\_name\_max\_length... **OK**

Applying auth.0003\_alter\_user\_email\_max\_length... **OK**

Applying auth.0004\_alter\_user\_username\_opts... **OK**

Applying auth.0005\_alter\_user\_last\_login\_null... **OK**

Applying auth.0006\_require\_contenttypes\_0002... **OK**

Applying auth.0007\_alter\_validators\_add\_error\_messages... **OK**

Applying auth.0008\_alter\_user\_username\_max\_length... **OK**

Applying books\_authors\_app.0001\_initial... **OK**

Applying sessions.0001\_initial... **OK**

(djangoPy3Env) Homes-MacBook-Pro-2:books\_authors home$ python manage.py shell

Python 3.7.0 (default, Sep 18 2018, 18:47:08)

[Clang 10.0.0 (clang-1000.10.43.1)] on darwin

Type "help", "copyright", "credits" or "license" for more information.

(InteractiveConsole)

>>> Book.objects.create(name='politics', desc='art of compromise')

Traceback (most recent call last):

File "<console>", line 1, in <module>

NameError: name 'Book' is not defined

>>> from apps.books\_authors\_app.models import \*

>>> Book.objects.create(name='politics', desc='art of compromise')

<Book: Book object>

>>> Book.objects.create(name='economics', desc='art of making money')

<Book: Book object>

>>> Book.objects.create(name='mathematics', desc='art of research x')

<Book: Book object>

>>> Author.objects.create(first\_name='Eric', last\_name='Timami', email='timameric@gmail.com')

<Author: Author object>

>>> Author.objects.create(first\_name='Speros', last\_name='Speros', email='speros@gmail.com')

<Author: Author object>

>>> Author.objects.create(first\_name='John', last\_name='John', email='john@gmail.com')

<Author: Author object>

>>> Author.objects.create(first\_name='Jadee', last\_name='Jadee', email='jadee@gmail.com')

<Author: Author object>

>>> Author.objects.create(first\_name='Jay', last\_name='Jay', email='jay@gmail.com')

<Author: Author object>

>>> Book.objects.create(name='PHP', desc='language of script of web development')

<Book: Book object>

>>> Book.objects.create(name='Ruby', desc='language of script objects oriented')

<Book: Book object>

>>> a=Author.objects.first()

>>> a.first\_name='Mike'

>>> a.last\_name='Mike'

>>> a.email='mike@gmail.com'

>>> a.save()

>>> b=Book.objects.first()

>>> b.name='C sharp'

>>> b.desc='Object oriented language of Windows'

>>> b.save()

>>> b=Book.objects.second()

Traceback (most recent call last):

File "<console>", line 1, in <module>

AttributeError: 'Manager' object has no attribute 'second'

>>> b=Book.objects.get(id=2)

>>> b.name='Java'

>>> b.desc='Script language of embedded systems'

>>> b.save()

>>> b=Book.objects.get(id=3)

>>> b.name='Python'

>>> b.desc='Script language of web development using for the server'

>>> b.save()

>>> exit()

(djangoPy3Env) Homes-MacBook-Pro-2:books\_authors home$ python manage.py makemigrations

You are trying to add a non-nullable field 'note' to author without a default; we can't do that (the database needs something to populate existing rows).

Please select a fix:

1) Provide a one-off default now (will be set on all existing rows with a null value for this column)

2) Quit, and let me add a default in models.py

Select an option: 1

Please enter the default value now, as valid Python

The datetime and django.utils.timezone modules are available, so you can do e.g. timezone.now

Type 'exit' to exit this prompt

>>> 'famous coding'

**Migrations for 'books\_authors\_app':**

**apps/books\_authors\_app/migrations/0002\_author\_note.py**:

- Add field note to author

(djangoPy3Env) Homes-MacBook-Pro-2:books\_authors home$ python manage.py migrate

**Operations to perform:**

**Apply all migrations:** admin, auth, books\_authors\_app, contenttypes, sessions

**Running migrations:**

Rendering model states... **DONE**

Applying books\_authors\_app.0002\_author\_note... **OK**

(djangoPy3Env) Homes-MacBook-Pro-2:books\_authors home$ python manage.py shell

Python 3.7.0 (default, Sep 18 2018, 18:47:08)

[Clang 10.0.0 (clang-1000.10.43.1)] on darwin

Type "help", "copyright", "credits" or "license" for more information.

(InteractiveConsole)

>>> b=Book.objects.get(id=5)

Traceback (most recent call last):

File "<console>", line 1, in <module>

NameError: name 'Book' is not defined

>>> from apps.books\_authors\_app.models import \*

>>> b=Book.objects.get(id=5)

>>> b.name='C#'

>>> b.save()

>>> a=Author.objects.get(id=5)

>>> a.first\_name='Ketul'

>>> a.save()

>>> this\_book=Book.objects.first()

>>> this\_author=Author.objects.first()

>>> this\_author.books.add(this\_book)

>>> this\_book=Book.objects.get(id=2)

>>> this\_author.books.add(this\_book)

>>> Author.objects.first().books

<django.db.models.fields.related\_descriptors.create\_forward\_many\_to\_many\_manager.<locals>.ManyRelatedManager object at 0x1079b3e10>

>>> Author.objects.first().books.all()

<QuerySet [<Book: Book object>, <Book: Book object>]>

>>> this\_author=Author.objects.get(id=2)

>>> this\_book=Book.objects.get(id=1)

>>> this\_author.books.add(this\_book)

>>> this\_book=Book.objects.get(id=2)

>>> this\_author.books.add(this\_book)

>>> this\_book=Book.objects.get(id=3)

>>> this\_author.books.add(this\_book)

>>> this\_author=Author.objects.get(id=3)

>>> this\_book=Book.objects.get(id=1)

>>> this\_author.books.add(this\_book)

>>> this\_book=Book.objects.get(id=2)

>>> this\_author.books.add(this\_book)

>>> this\_book=Book.objects.get(id=3)

>>> this\_author.books.add(this\_book)

>>> this\_book=Book.objects.get(id=4)

>>> this\_author.books.add(this\_book)

>>> this\_author=Author.objects.get(id=4)

>>> this\_book=Book.objects.get(id=1)

>>> this\_author.books.add(this\_book)

>>> this\_book=Book.objects.get(id=2)

>>> this\_author.books.add(this\_book)

>>> this\_book=Book.objects.get(id=3)

>>> this\_author.books.add(this\_book)

>>> this\_book=Book.objects.get(id=4)

>>> this\_author.books.add(this\_book)

>>> this\_book=Book.objects.get(id=5)

>>> this\_author.books.add(this\_book)

>>> Book.objects.get(id=3).authors.all()

<QuerySet [<Author: Author object>, <Author: Author object>, <Author: Author object>]>

>>> Book.objects.get(id=3).authors.all().first\_name

Traceback (most recent call last):

File "<console>", line 1, in <module>

AttributeError: 'QuerySet' object has no attribute 'first\_name'

>>> Book.objects.get(id=3).authors.all().values()

<QuerySet [{'id': 2, 'first\_name': 'Speros', 'last\_name': 'Speros', 'email': 'speros@gmail.com', 'note': 'famous coding', 'created\_at': datetime.datetime(2018, 10, 18, 22, 36, 0, 897149, tzinfo=<UTC>), 'updated\_at': datetime.datetime(2018, 10, 18, 22, 36, 0, 897217, tzinfo=<UTC>)}, {'id': 3, 'first\_name': 'John', 'last\_name': 'John', 'email': 'john@gmail.com', 'note': 'famous coding', 'created\_at': datetime.datetime(2018, 10, 18, 22, 36, 52, 432272, tzinfo=<UTC>), 'updated\_at': datetime.datetime(2018, 10, 18, 22, 36, 52, 432379, tzinfo=<UTC>)}, {'id': 4, 'first\_name': 'Jadee', 'last\_name': 'Jadee', 'email': 'jadee@gmail.com', 'note': 'famous coding', 'created\_at': datetime.datetime(2018, 10, 18, 22, 37, 31, 927901, tzinfo=<UTC>), 'updated\_at': datetime.datetime(2018, 10, 18, 22, 37, 31, 927943, tzinfo=<UTC>)}]>

>>> Book.objects.get(id=3).authors.all().values().first\_name

Traceback (most recent call last):

File "<console>", line 1, in <module>

AttributeError: 'QuerySet' object has no attribute 'first\_name'

>>> list = Book.objects.get(id=3).authors.all().values()

>>> list[0].first

Traceback (most recent call last):

File "<console>", line 1, in <module>

AttributeError: 'dict' object has no attribute 'first'

>>> list[0].first\_name

Traceback (most recent call last):

File "<console>", line 1, in <module>

AttributeError: 'dict' object has no attribute 'first\_name'

>>> list = Book.objects.get(id=3).authors.all()

>>> list[0].first\_name

'Speros'

>>> Book.objects.get(id=3).authors.all()

<QuerySet [<Author: Author object>, <Author: Author object>, <Author: Author object>]>

>>> Book.objects.get(id=3).authors.all()[0].delete

<bound method Model.delete of <Author: Author object>>

>>> Book.objects.get(id=3).authors.all()

<QuerySet [<Author: Author object>, <Author: Author object>, <Author: Author object>]>

>>> Book.objects.get(id=3).authors.all()[0].delete()

(4, {'books\_authors\_app.Author\_books': 3, 'books\_authors\_app.Author': 1})

>>> Book.objects.get(id=3).authors.all()

<QuerySet [<Author: Author object>, <Author: Author object>]>

>>> this\_author=Author.objects.get(id=5)

>>> this\_book=Book.objects.get(id=3)

>>> this\_author.books.add(this\_book)

>>> Book.objects.get(id=3).authors.all()

<QuerySet [<Author: Author object>, <Author: Author object>, <Author: Author object>]>

>>> Book.objects.get(id=3).authors.all()[2].id

5

>>> Author.object.get(id=3).books.all()

Traceback (most recent call last):

File "<console>", line 1, in <module>

AttributeError: type object 'Author' has no attribute 'object'

>>> Author.objects.get(id=3).books.all()

<QuerySet [<Book: Book object>, <Book: Book object>, <Book: Book object>, <Book: Book object>]>

>>> Author.objects.get(id=3).books.all().values()

<QuerySet [{'id': 1, 'name': 'C sharp', 'desc': 'Object oriented language of Windows', 'created\_at': datetime.datetime(2018, 10, 18, 21, 35, 10, 58706, tzinfo=<UTC>), 'updated\_at': datetime.datetime(2018, 10, 18, 22, 51, 38, 732290, tzinfo=<UTC>)}, {'id': 2, 'name': 'Java', 'desc': 'Script language of embedded systems', 'created\_at': datetime.datetime(2018, 10, 18, 21, 35, 44, 302441, tzinfo=<UTC>), 'updated\_at': datetime.datetime(2018, 10, 18, 22, 54, 52, 14868, tzinfo=<UTC>)}, {'id': 3, 'name': 'Python', 'desc': 'Script language of web development using for the server', 'created\_at': datetime.datetime(2018, 10, 18, 21, 36, 45, 214972, tzinfo=<UTC>), 'updated\_at': datetime.datetime(2018, 10, 18, 22, 56, 27, 443299, tzinfo=<UTC>)}, {'id': 4, 'name': 'PHP', 'desc': 'language of script of web development', 'created\_at': datetime.datetime(2018, 10, 18, 22, 42, 36, 580952, tzinfo=<UTC>), 'updated\_at': datetime.datetime(2018, 10, 18, 22, 42, 36, 581009, tzinfo=<UTC>)}]>

>>> Author.objects.get(id=2).books.all().values()

Traceback (most recent call last):

File "<console>", line 1, in <module>

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/manager.py", line 85, in manager\_method

return getattr(self.get\_queryset(), name)(\*args, \*\*kwargs)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/query.py", line 385, in get

self.model.\_meta.object\_name

apps.books\_authors\_app.models.DoesNotExist: Author matching query does not exist.

>>> Author.objects.get(id=2).books.all()

Traceback (most recent call last):

File "<console>", line 1, in <module>

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/manager.py", line 85, in manager\_method

return getattr(self.get\_queryset(), name)(\*args, \*\*kwargs)

File "/Users/home/Desktop/Python/python\_stack/myEnvironments/djangoPy3Env/lib/python3.7/site-packages/django/db/models/query.py", line 385, in get

self.model.\_meta.object\_name

apps.books\_authors\_app.models.DoesNotExist: Author matching query does not exist.

>>>