Working with multiple models / Relationships

Working with multiple models / Relationships

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{LP}LearnProgramming



Kinds of relationships

- > One to one relationship
- Many to One relationship
- Many to Many relationship

One to One Relationship

One to one relationship is a type of relationship where in one record in a table is related to exactly one more record in another table and vice versa.

Example

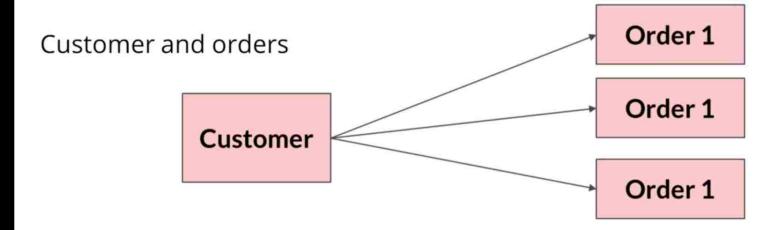
Employee and salary account



Example 2 → Person and passport

Many to One relationship

A many to one relationship is a type of relationship when one record in one table has one or many related record in another table.

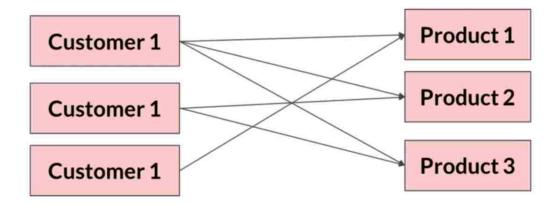


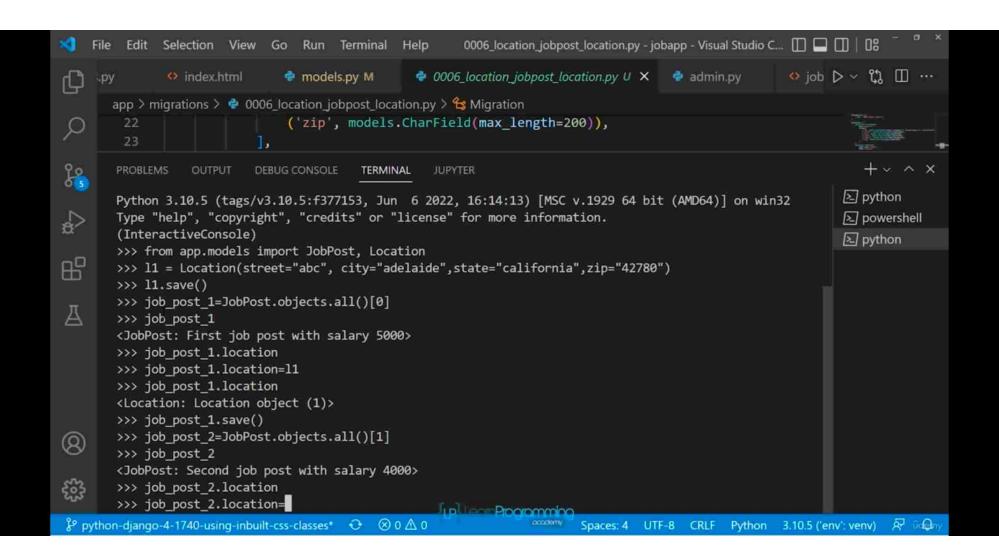
Many to Many relationship

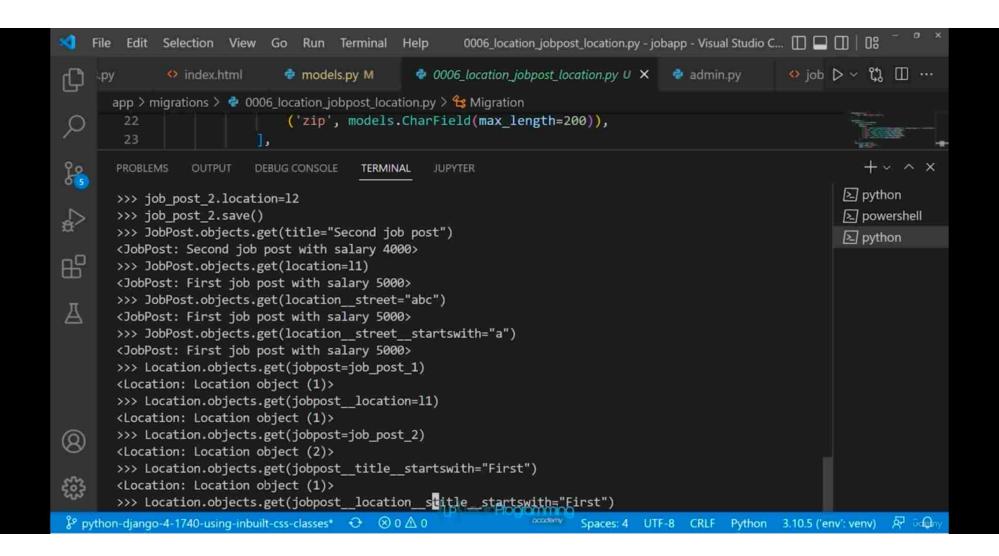
A many to many relationship is a type of relationship when one record in one table has many related record in another table.

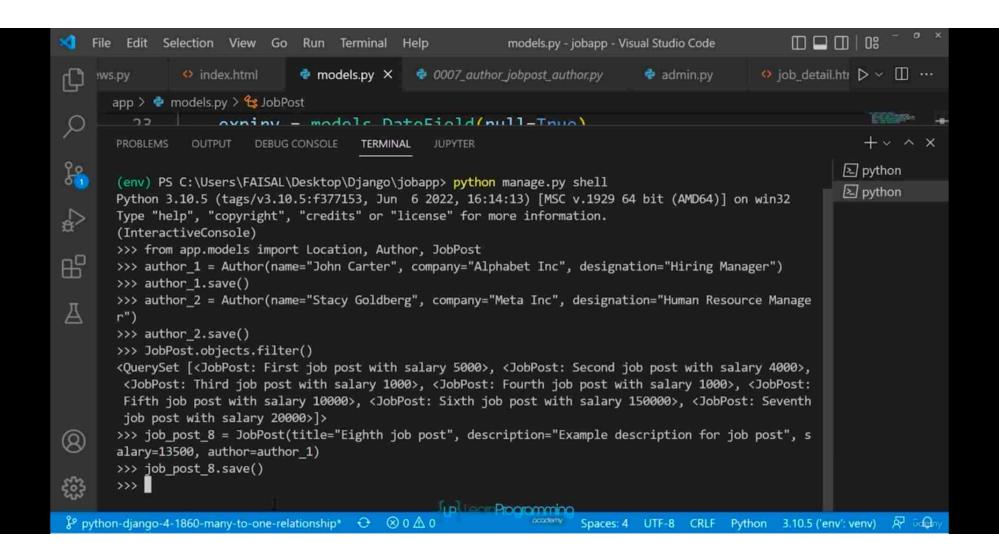
Example

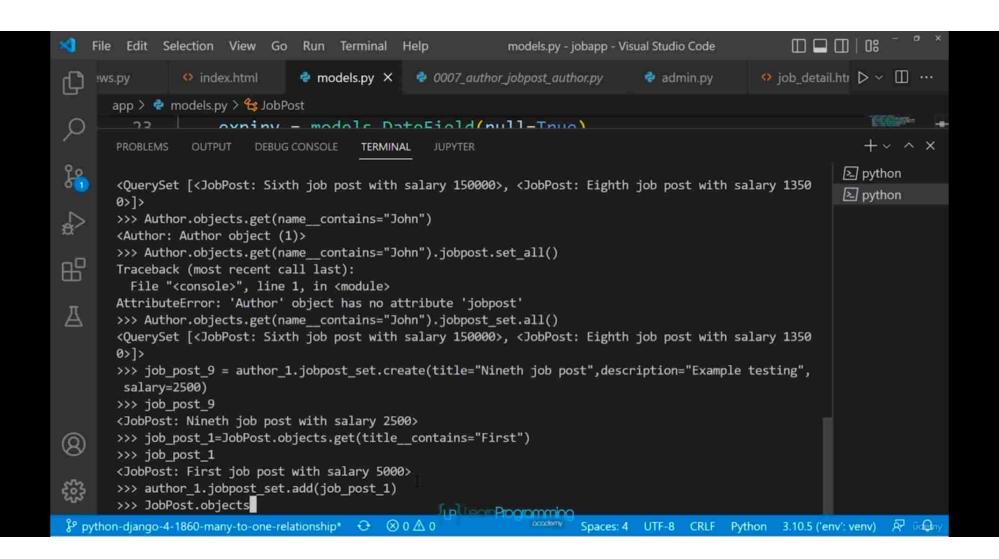
Customer and products

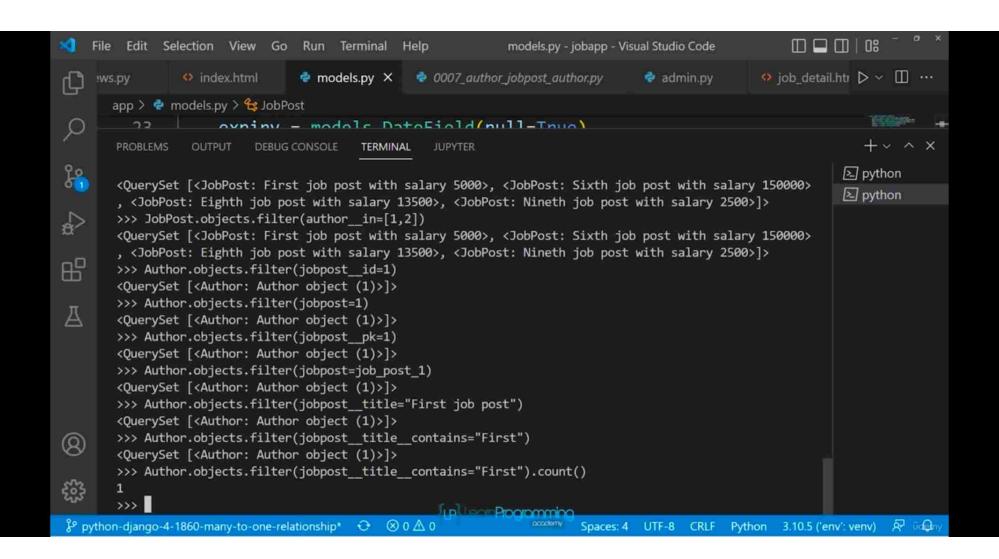


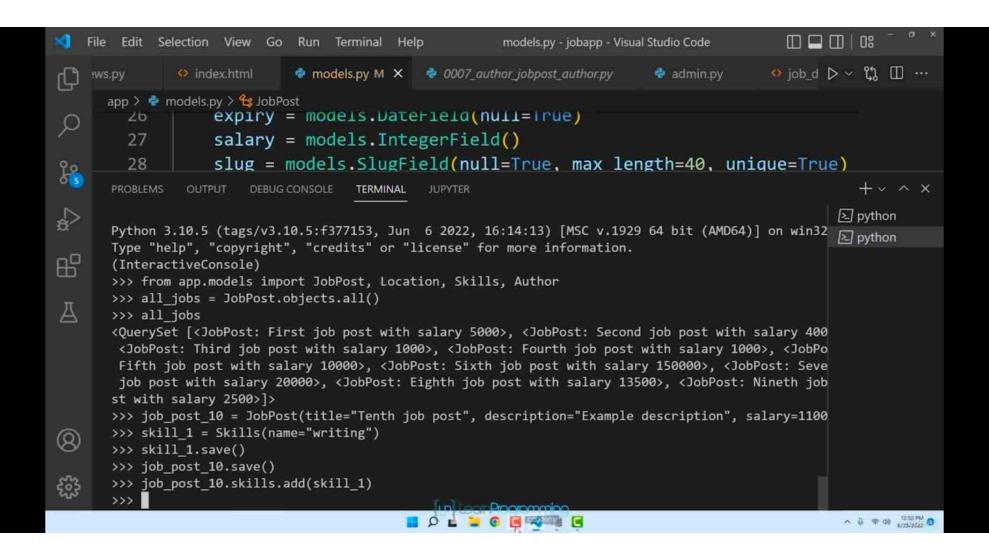


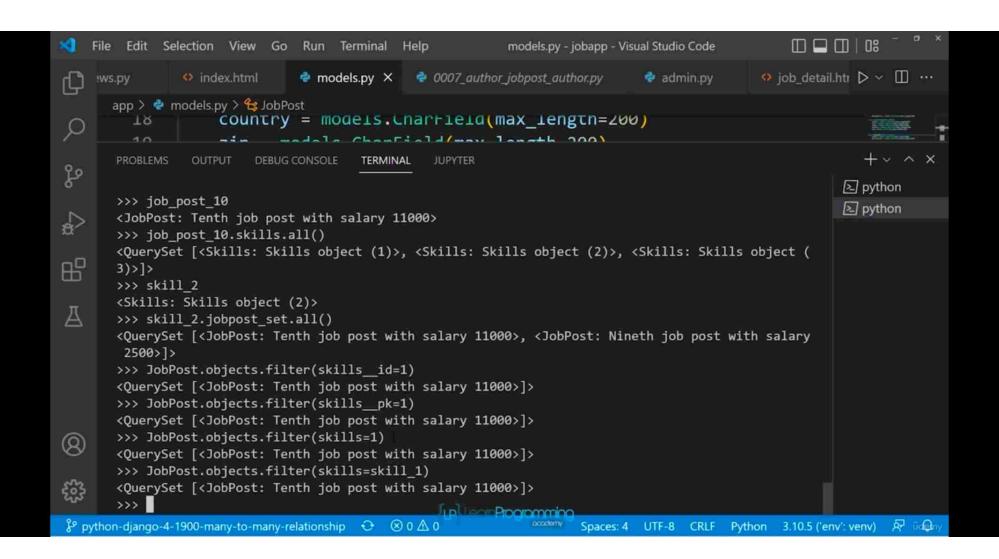


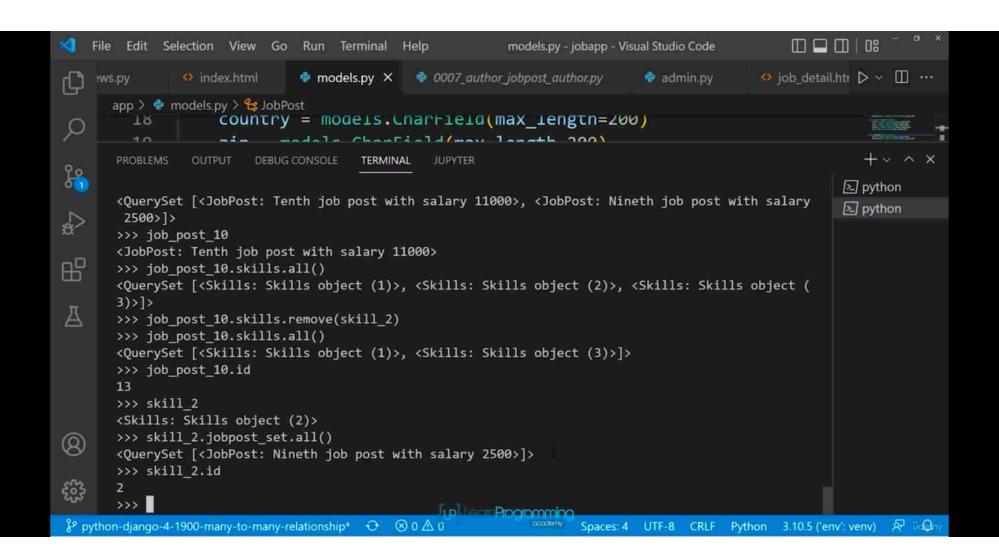


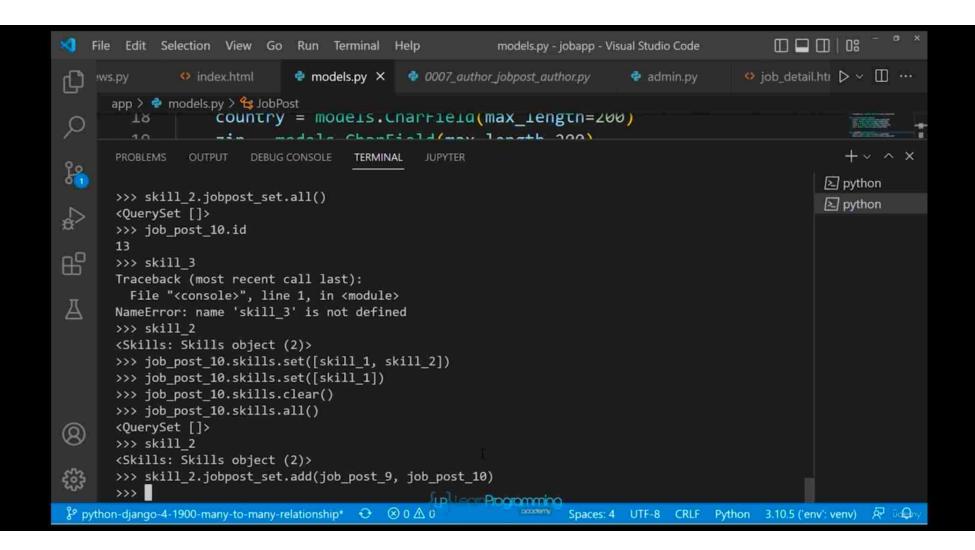












One to one relationship

One to one relationship is a type of relationship where in one record in a table is related to exactly one more record in another table and vice versa.

- One employee has a salary account and one salary account belongs to exactly one employee
- One passport belongs to one person and one person has one passport



One to one relationship

```
location = models.OneToOneField(Location,
on_delete=models.CASCADE, null=True)
```



Many to One relationship

A many to one relationship is a type of relationship when one record in one table has one or many related record in another table

- One customer can have multiple orders, however one order can belong to a single customer
- One user can have multiple bank accounts, however one bank account can belong to a single account holder



Many to One relationship

```
author = models.ForeignKey(Author,
on_delete=models.CASCADE, null=True)
```



Many to Many relationship

> A many to many relationship is a type of relationship when one record in one table has many related record in another table

- One customer can have purchase multiple products and products can be purchased by multiple customers as well
- One course can have multiple students, and one student take multiple courses.



Many to Many relationship

skills = models.ManyToManyField(Skills)

