## Django: Check in template if queryset is empty

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I have found the solution for this but only by checking in views so far. I need to check in templates.

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My view:



```
brands = Brand.objects.all()
for brand in brands:
    brand.products = Product.objects.filter(brand=brand.id)
```

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And so in my template I want to show all my brands but not those which do not have any product.

```
{% for brand in brands %}
     {% if brand.product is not None %}
     <!-- Displays brand -->
     {% endif %}
{% endfor %}
```

Something like that, but the code is not None doesn't work for empty querysets and it is still displaying brands with no objects in them. What can I do?

EDIT: Sharing model as requested.

```
class Brand(models.Model):
     name = models.CharField(max_length=100, null=False)
     def __str__(self):
          return self.name
 class Product(models.Model):
     name = models.CharField(max_length=100, null=False)
      brand = models.IntegerField(null=True)
     price = models.DecimalField(max_digits=12, decimal_places=2, null=False)
      def __str__(self):
          return self.name
django templates view django-queryset
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                                  edited May 4 '19 at 15:01
                                                                asked May 4 '19 at 14:54
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                                                                      Gonzalo Dambra
```

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Can you share your models please? - Willem Van Onsem May 4 '19 at 14:56

@WillemVanOnsem for sure. Done! If you can tell me any solution without making a one-to-one relationship I would really appreciate it! — Gonzalo Dambra May 4 '19 at 15:01

Hold on, you did not use a ForeignKey here? Please change the IntegerField to a ForeignKey: docs.djangoproject.com/en/2.2/topics/db/examples/many\_to\_one it will add extra database constraints, and make the Django ORM more expressive, it will also create a better modeling layer. – Willem Van Onsem May 4 '19 at 15:02

That's a great solution and I appreciate your help, but the problem is that I am migrating a desktop Windows application, and I must keep the DB tables as they currently are. — Gonzalo Dambra May 4 '19 at 15:04

except for renaming brand to brand\_id, not much will change at the "database" layer, but it will make the model more consistent. – Willem Van Onsem May 4 '19 at 15:05

## 3 Answers

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Your template should be like:

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```
{% for brand in brands %}
    {% if brand.product %}
    <!-- Displays brand -->
    {% endif %}
{% endfor %}
```





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edited May 4 '19 at 15:17

answered May 4 '19 at 15:04

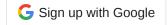


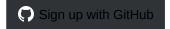
JBoy **134** 1 15

Note that the second example will not work, since Django templates do *not* allow function calls (well not explicit ones at least). – Willem Van Onsem May 4 '19 at 15:15

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It is usually *not* a good idea to use IntegerField s, etc. to represent relations. Django uses ForeignKey [Django-doc] to implement such relations. There are multiple advantages for this: (1) it will add extra constraints to the database, such that the key can only refer to a real Brand; and (2) you will have extra ways to retrieve the related Product S.



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The product model thus should have a Foreignkey to the Brand model, like:

```
class Product(models.Model):
   name = models.CharField(max_length=100, null=False)
    brand = models.ForeignKey(Brand, null=True, db_column='brand')
    price = models.DecimalField(max_digits=12, decimal_places=2, null=False)
```

Here we leave the database structure itself intact, but it will add a ForeignKey on it, as well as an *index*, making retrieving all products for a given Brand much faster.

It is usually a bad idea to write (business)logic in templates. In fact one of the reasons why the Django template language does not allow to make calls with parameters, etc. is to avoid that people write business logic in the template. So I strongly advice you to shift the logic to the view.

You can retrieve the Brand's that at least have one related Product in the view with a oneliner:

```
Brand.objects.filter(product__isnull=False).distinct()
```

So it is not necessary to check each brand individually. Here we also check the existance of a Product in a single query for all Brand S, not an extra query per Brand to check if there are related Product S.

This will result in a query that looks like:

```
SELECT DISTINCT brand.*
FROM brand
INNER JOIN product ON brand.id = product.brand_id
WHERE product.id IS NOT NULL
```

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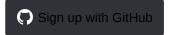
answered May 4 '19 at 15:15 Willem Van Onsem

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If you want to display something different when a collection is empty, check this out:



```
{% for i in list %}
    // Do this in non - empty condition
{% empty %}
    // Do this in empty condition
{% endfor %}
```



credit: GeeksForGeeks

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answered Aug 29 '20 at 19:21

orangecaterpillar
389 4 10

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