

Logical and,or,not

And

Select * from customer where name='venu' and address= 'bangalore';

1)

```
res= Customer.objects.filter(name='venu',address='bangalore')
```

2)

```
res= Customer.objects.filter(name='venu') & Customer.objects.filter(email="venu@gmail.com")
```

3)

```
from django.db.models import Q
```

```
res= Customer.objects.filter(Q(name='sai') & Q(email='sai@gmail.com'))
```

or

Select * from customer where name='venu' or address= 'bangalore';

1)

```
from django.db.models import Q
```

```
res= Customer.objects.filter(Q(name='venu') | Q(email='sai@gmail.com'))
```

2)

```
res= Customer.objects.filter(name='venu') | Customer.objects.filter(email='sai@gmail.com')
```

Not

Select * from customer where not ename= 'sai';

1)

```
res=Customer.objects.exclude(name='sai')
```

2)

```
res=Customer.objects.filter(~Q(address='bangalore'))
```

Arithmetic +,-,*,/

Relational <,>,<=,>=

Lessthan

Select * from customer where id<4:

```
res=Customer.objects.filter(id__lt=7)
```

Select * from customer where id<=4:

```
res=Customer.objects.filter(id__lte=4)
```

Select * from customer where id>4:

```
res=Customer.objects.filter(id__gt=4)
```

Select * from customer where id>=4:

```
res=Customer.objects.filter(id__gte=4)
```

Special operators:

In

```
res= Customer.objects.filter(id__in=[1,3,5,6])
```

Not in

```
res= Customer.objects.exclude(id__in=[1,3,5,6])
```

Is

```
res= Customer.objects.filter(name__iexact=None)
```

Is not

```
res= Customer.objects.exclude(name__iexact=None)
```

Between

```
res= Customer.objects.filter(id__range=(2,4))
```

Not between

```
res= Customer.objects.exclude(id__range=(2,4))
```

Case sensitive:

Like

Select * from customer where name like '%a%'

```
res= Customer.objects.filter(name__contains='a')
```

Select * from customer where name like 'v%'

```
res= Customer.objects.filter(name__startswith='v')
```

Select * from customer where name like '%v'

```
res= Customer.objects.filter(name__endswith='k')
```

Select * from customer where name not like '%a%'

```
res= Customer.objects.exclude(name__contains='a')
```

Select * from customer where name not like 'v%'

```
res= Customer.objects.exclude(name__startswith='v')
```

Select * from customer where name not like '%v'

```
res= Customer.objects.exclude(name__endswith='k')
```

Case insensitive:

```
res= Customer.objects.filter(name__icontains='a')
```

Select * from customer where name not like 'v%'

```
res= Customer.objects.exclude(name__startswith='v')
```

Select * from customer where name like 'v%'

```
res= Customer.objects.filter(name__iendswith='k')
```