

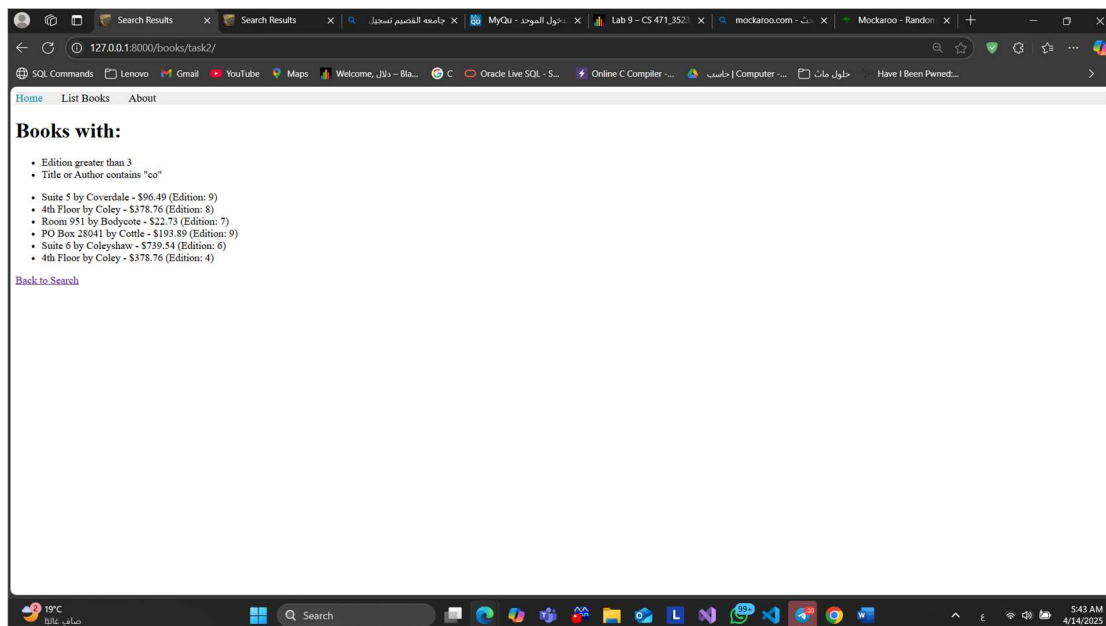
```
{% extends "layouts/base.html" %}

{% block title %} Search Results {% endblock title %}

{% block content %}

    <title>Books Under 80</title>
</head>
<body>
    <h1>Books with Price ≤ 80</h1>
    <ul>
        {% for book in books %}
            <li>{{ book.title }} - {{ book.price }}</li>
        {% empty %}
            <li>No books found.</li>
        {% endfor %}
    </ul>

    <a href="{% url 'bookmodule.search' %}">Back to Search</a>
{% endblock content %}
```



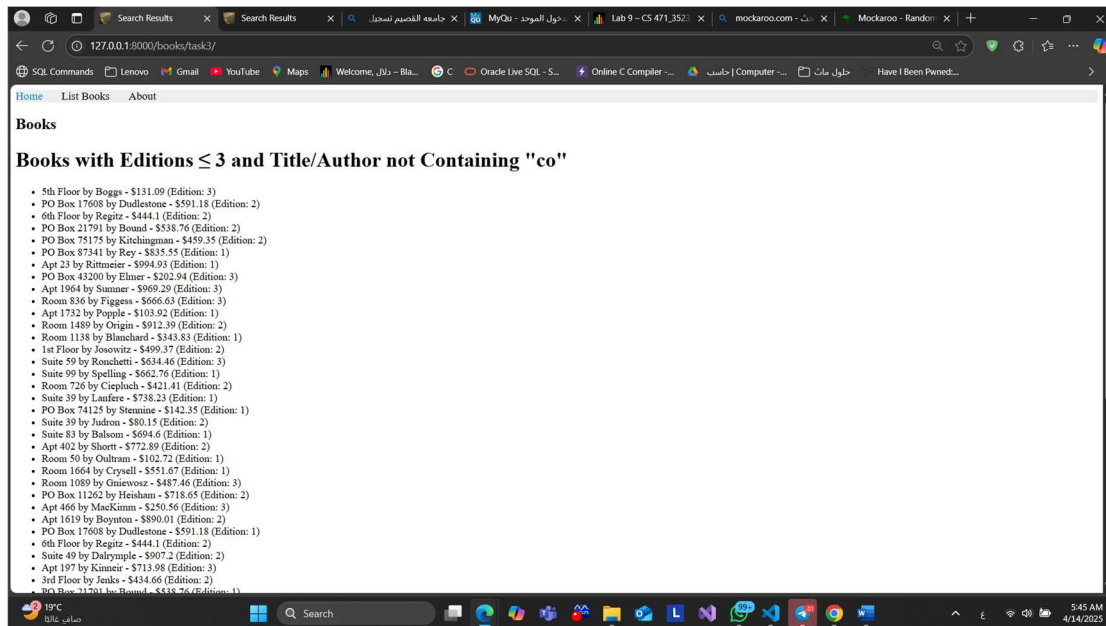
```
{% extends "layouts/base.html" %}
{% block title %} Search Results {% endblock title %}

{% block content %}

<h1>Books with:</h1>
<ul>
  <li>Edition greater than 3</li>
  <li>Title or Author contains "co"</li>
</ul>

<ul>
  {% for book in books %}
    <li>{{ book.title }} by {{ book.authors }} - ${{ book.price }}
    (Edition: {{ book.edition }})</li>
  {% endfor %}
</ul>

<a href="{% url 'bookmodule.search' %}">Back to Search</a>
{% endblock content %}
```



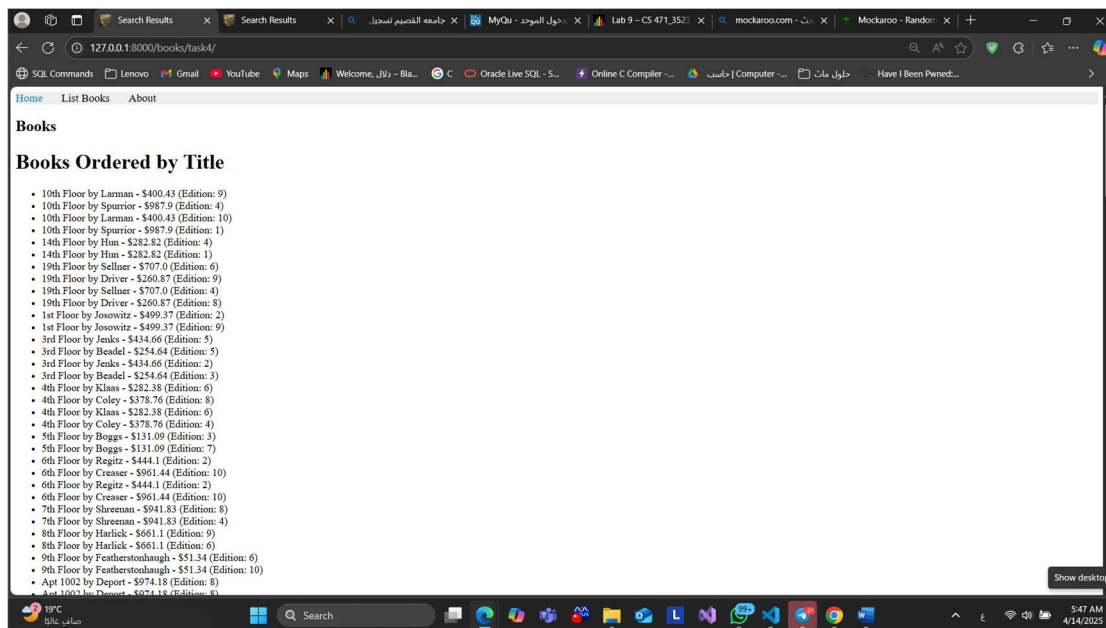
```
{% extends "layouts/base.html" %}

{% block title %} Search Results {% endblock title %}

{% block content %}
<h2>Books</h2>
<h1>Books with Editions ≤ 3 and Title/Author not Containing "co"</h1>

<ul>
    {% for book in books %}
        <li>{{ book.title }} by {{ book.authors }} - ${{ book.price }}
        (Edition: {{ book.edition }})</li>
    {% endfor %}
</ul>

<a href="{% url 'bookmodule.search' %}">Back to Search</a>
{% endblock content %}
```

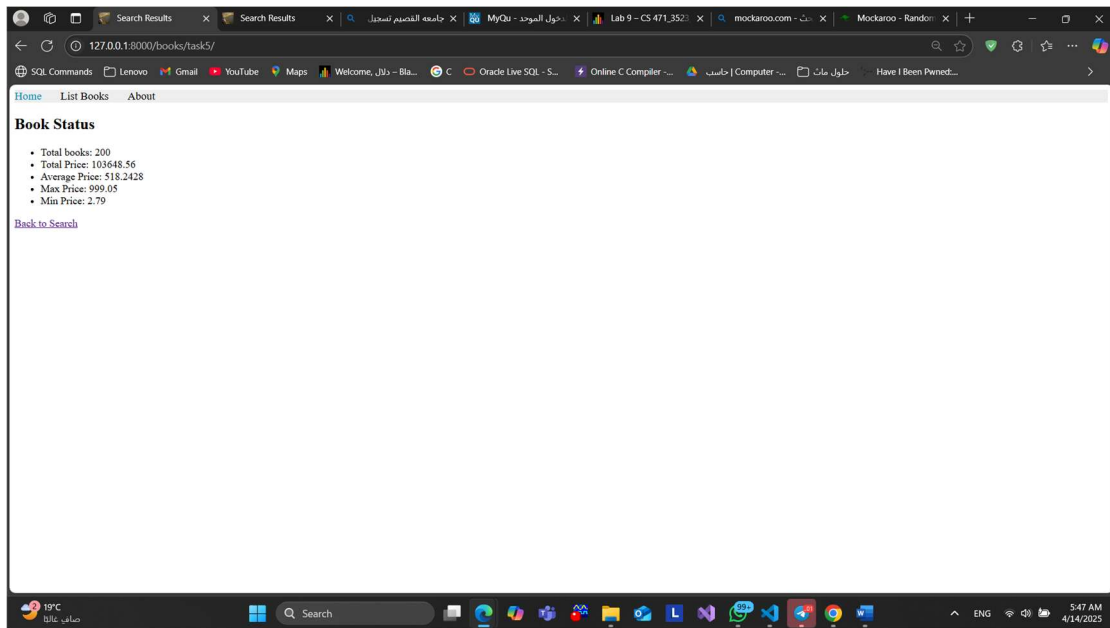


```
{% extends "layouts/base.html" %}
{% block title %} Search Results {% endblock title %}

{% block content %}
<h2>Books</h2>
<h1>Books Ordered by Title</h1>

<ul>
    {% for book in books %}
        <li>{{ book.title }} by {{ book.authors }} - ${{ book.price }}
        (Edition: {{ book.edition }})</li>
    {% endfor %}
</ul>

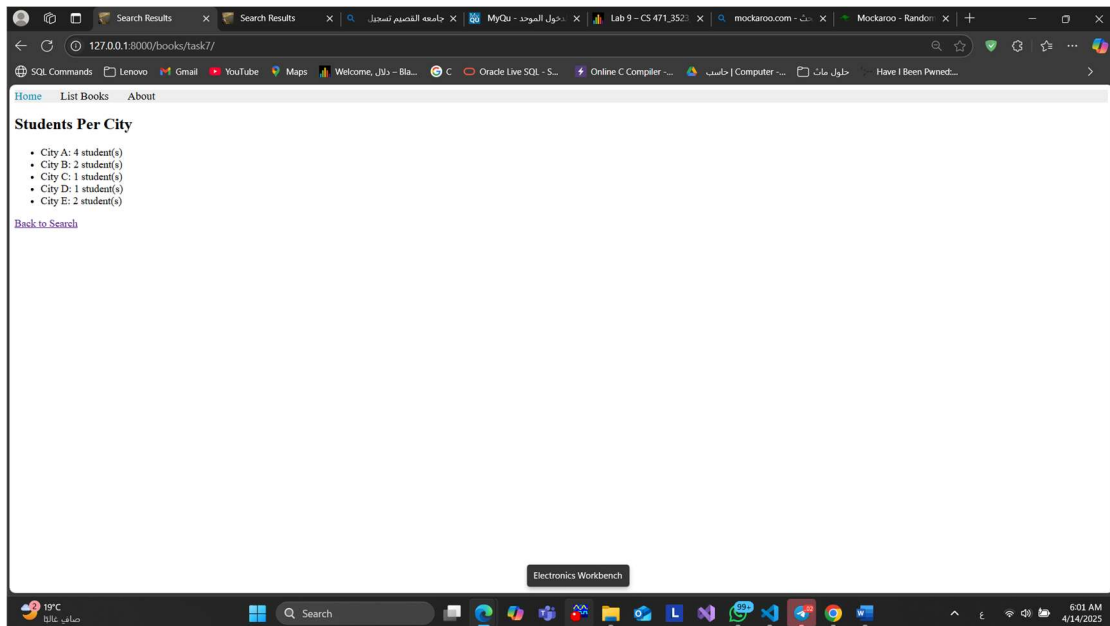
<a href="{% url 'bookmodule.search' %}">Back to Search</a>
{% endblock content %}
```



```
{% extends "layouts/base.html" %}
{% block title %} Search Results {% endblock title %}

{% block content %}
<h2>Book Status</h2>
<ul>
  <li>Total books: {{ stats.total_books }}</li>
  <li>Total Price: {{ stats.total_price }}</li>
  <li>Average Price: {{ stats.avg_price }}</li>
  <li>Max Price: {{ stats.max_price }}</li>
  <li>Min Price: {{ stats.min_price }}</li>
</ul>

<a href="{% url 'bookmodule.search' %}">Back to Search</a>
{% endblock content %}
```



```
{% extends "layouts/base.html" %}
{% block title %} Search Results {% endblock title %}

{% block content %}
<h2>Students Per City</h2>
<ul>
    {% for city in city_stats %}
        <li>{{ city.city }}: {{ city.student_count }} student(s)</li>
    {% endfor %}
</ul>

<a href="{% url 'bookmodule.search' %}">Back to Search</a>
{% endblock content %}
```

```
from django.db import models

# Create your models here.

class Book(models.Model):
    title = models.CharField(max_length=50)
    authors = models.CharField(max_length=50)
    price = models.FloatField(default=0.0)
    edition = models.SmallIntegerField(default=1)

    class Meta:
        db_table = "books"
```

```

class Address(models.Model):
    city = models.CharField(max_length=100)

class Student(models.Model):
    name = models.CharField(max_length=100)
    age = models.IntegerField()
    address = models.ForeignKey(Address, on_delete=models.CASCADE)

```

```

def task1_view(request):
    books = Book.objects.filter(Q(price__lte=80))
    return render(request, 'bookmodule/task1.html', {'books': books})

def task2_view(request):
    books = Book.objects.filter(
        Q(edition__gt=3) & (Q(title__icontains='co') |
Q(authors__icontains='co'))
    )
    return render(request, 'bookmodule/task2.html', {'books': books})

def task3_view(request):
    books = Book.objects.filter(
        ~Q(edition__gt=3) & ~(Q(title__icontains='co') |
Q(authors__icontains='co'))
    )
    return render(request, 'bookmodule/task3.html', {'books': books})

def task4_view(request):
    books = Book.objects.all().order_by('title')
    return render(request, 'bookmodule/task4.html', {'books': books})

def task5_view(request):
    stats = Book.objects.aggregate(
        total_books=Count('id'),
        total_price=Sum('price'),
        avg_price=Avg('price'),
        max_price=Max('price'),
        min_price=Min('price')
    )
    return render(request, 'bookmodule/task5.html', {'stats': stats})
def task7_view(request):
    city_stats =
Address.objects.annotate(student_count=Count('student'))
    return render(request, 'bookmodule/task7.html', {'city_stats':
city_stats})

```

```
from django.urls import path
from . import views
from . import apps

urlpatterns = [
    path('task1/', views.task1_view, name="bookmodule.task1"),
    path('task2/', views.task2_view),
    path('task3/', views.task3_view),
    path('task4/', views.task4_view),
    path('task5/', views.task5_view),
    path('task7/', views.task7_view),
]
```