python manage.py shell

from bands.models import Band, Genre

All bands:
```
all_bands = Band.objects.all()
for band in all_bands:
    print(band.name)
```

All Genres:
```
all_genres = Genre.objects.all()
for genre in all_genres:
    print(genre.name)
```

By Name:
```
specific_band = Band.objects.get(name='The Beatles')  # Replace
'The Beatles' with the desired name
print(specific_band)
```

All Rock Bands:
```
rock_bands = Band.objects.filter(genre__name='Rock')
for band in rock_bands:
    print(band.name)
```

1. **Create a Search Form:**

   o This involves creating an HTML form with a search input field.
   o Place this form in your template (e.g., `band_list.html`).

2. **Handle Form Submission:**

   o Create a view function to handle the search form submission.
   o Extract the search query from the form data.
   o Use Django's ORM to filter bands based on the search query.

3. **Display Search Results:**

   o Render a template to display the search results.

Code Example:

```
<form method="get">
    <input type="text" name="search" placeholder="Search
for bands">
    <button type="submit">Search</button>
</form>
```

```
# bands/views.py
from django.shortcuts import render
from .models import Band

def band_list(request):
    search_query = request.GET.get('search', '')
    if search_query:
        bands =
Band.objects.filter(name__icontains=search_query)
    else:
        bands = Band.objects.all()
    return render(request, 'bands/band_list.html',
{'bands': bands})
```

Will add a search form to the `band_list.html` template with an input field and a submit button.

In the `band_list` view, we'll get the search query from the request parameters.

If there's a search query, we will filter bands based on two conditions:
- The band name contains the search query (case-insensitive using `__icontains`).
- The band's genre name contains the search query.
- The | operator combines the two filters using OR logic.

If there's no search query, we will simply fetch all bands.

Modify band_list.html template
```
<!DOCTYPE html>
<html>
<head>
    <title>Bands</title>
</head>
<body>
    <h1>Bands</h1>

    <form method="get">
        <input type="text" name="search" placeholder="Search for
bands">
        <button type="submit">Search</button>
    </form>

    <ul>
        {% for band in bands %}
            <li>{{ band.name }} - {{ band.genre }}</li>
```

```
        {% endfor %}
    </ul>
</body>
</html>
```

Update the band_list view in bands/views.py

```python
from django.shortcuts import render
from .models import Band

def band_list(request):
    search_query = request.GET.get('search', '')
    if search_query:
        bands =
Band.objects.filter(name__icontains=search_query) |
Band.objects.filter(genre__name__icontains=search_query)
    else:
        bands = Band.objects.all()
    return render(request, 'bands/band_list.html', {'bands':
bands})
```