```
package jpa;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.data.domain.PageRequest;
import org.springframework.data.domain.Sort;
//@SpringBootApplication
public class TestProducts implements CommandLineRunner {
   @Autowired
   private ProductRepo productRepo;
    public static void main(String[] args) {
       SpringApplication.run(TestProducts.class, args);
    public void printPage(int pageno) {
        var page = productRepo.findAll( PageRequest.of(pageno, 5));
        for(var p : page)
            System.out.println(p.getName());
    }
    public void sortByCategoryAndPrice() {
        var page = productRepo.findAll(Sort.by("category").ascending()
                       .and(Sort.by("price").descending()));
        for(var p : page)
            System.out.printf("%-10s %-30s %8.2f\n", p.getCategory().getCode(),
                       p.getName(), p.getPrice());
    }
   @Override
    public void run(String... args) throws Exception {
//
              for ( var p : productRepo.findAll()) {
                System.out.printf("%-20s %-20s\n",
//
                        p.getName(), p.getCategory().getDescription());
//
//
        for (var p : productRepo.getAllNameDesc()) {
            System.out.printf("%-20s %-20s\n", p.getName(), p.getCategory().getDescription());
//
//
        //printPage(0);
        sortByCategoryAndPrice();
    }
}
```

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