BooksBATCH

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Process

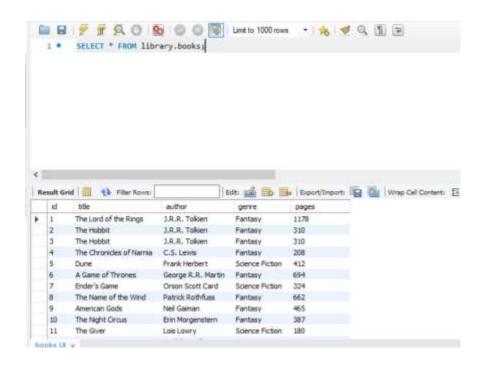
Taking on the theme of books, the batch was adjusted to take in a list of 500 books (some of them are duplicates due to the csv being AI generated), and as i process them i take the ones with the genre Sciene finction and Fantasy

```
pa lacsdomyMty24 main lademia.BooksBatch.config;
3*import org.springframework.batch.core.Job;
 27 @Configuration
 28 @EnableBatchProcessing
 29 @AllArgsConstructor
 30 public class SpringBatchConfig {
        private final JobBuilderFactory jobBuilderFactory;
        private final StepBuilderFactory stepBuilderFactory;
        private final BookRepository bookRepository;
 35
        public FlatFileItemReader<Book> reader() {
            FlatFileItemReader<Book> itemReader = new FlatFileItemReader<>();
            itemReader.setResource(new FileSystemResource("src/main/resources/books.csv")); // Update path and filename if a
            itemReader.setName("csvReader");
            itemReader.setLinesToSkip(1);
            itemReader.setLineMapper(lineMapper());
            return itemReader;
 45
        private LineMapper<Book> lineMapper() {
 47
            DefaultLineMapper<Book> lineMapper = new DefaultLineMapper<>();
 48
 49
            DelimitedLineTokenizer lineTokenizer = new DelimitedLineTokenizer();
 50
            lineTokenizer.setDelimiter(",");
 52
            lineTokenizer.setStrict(false);
 52
            lineTokenizer.setNames("id", "title", "author", "genre", "pages");
 53
 54
            BeanWrapperFieldSetMapper<Book> fieldSetMapper = new BeanWrapperFieldSetMapper<>();
 55
            fieldSetMapper.setTargetType(Book.class);
```

Books

The entity is adjusted to accomodate my table books with the lombok to have

less code. I truncated my table before running my job



```
SooksBatch * Src/main/java * ■ com.academia.BooksBatch.entity * © Book *
package com.academia.BooksBatch.entity;
 3*import lombok.AllArgsConstructor;
14 @Entity
15 @Table(name = "BOOKS")
16 @Data
17 @AllArgsConstructor
18 @NoArgsConstructor
  public class Book {
20
21=
       @Id
22
       @GeneratedValue(strategy = GenerationType.IDENTITY)
23
       @Column(name = "ID")
       private Integer id;
24
25
       @Column(name = "TITLE", nullable = false)
26=
       private String title;
27
28
       @Column(name = "AUTHOR", nullable = false)
29
30
       private String author;
31
32⊕
       @Column(name = "GENRE")
33
       private String genre;
34
35**
       @Column(name = "PAGES")
36
       private Integer pages;
37 }
```

Postman

I took on the same configuration as the original proyect so to run the job it needs to be a POST method.

http://localhost:9191/jobs/importBooks

```
1 package com.academia.BooksBatch.controller;
3*import org.springframework.batch.core.Job;
5 @RestController
7 @RequestMapping("/jobs")
B public class JobController {
     @Autowired
     private JobLauncher jobLauncher;
     @Autowired
     private Job job;
     @PostMapping("/importBooks")
      public void importCsvToDBJob() {
         JobParameters jobParameters = new JobParametersBuilder()
                  .addLong("startAt", System.currentTimeMillis()).toJobParameters();
         try {
             jobLauncher.run(job, jobParameters);
         } catch (JobExecutionAlreadyRunningException | JobRestartException | JobInstanceAlreadyCompleteException | JobPa
             e.printStackTrace();
```