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## Spring Batch Activity

### Introduction

The purpose of this project is to implement a batch processing system using Spring Batch to import and filter customer data from a CSV file. Originally, the system was configured to process customer data from various regions without any restrictions. However, due to new business requirements, it was necessary to modify the system to process only customers from the state of Texas.

For this activity I modified the .csv to look like this

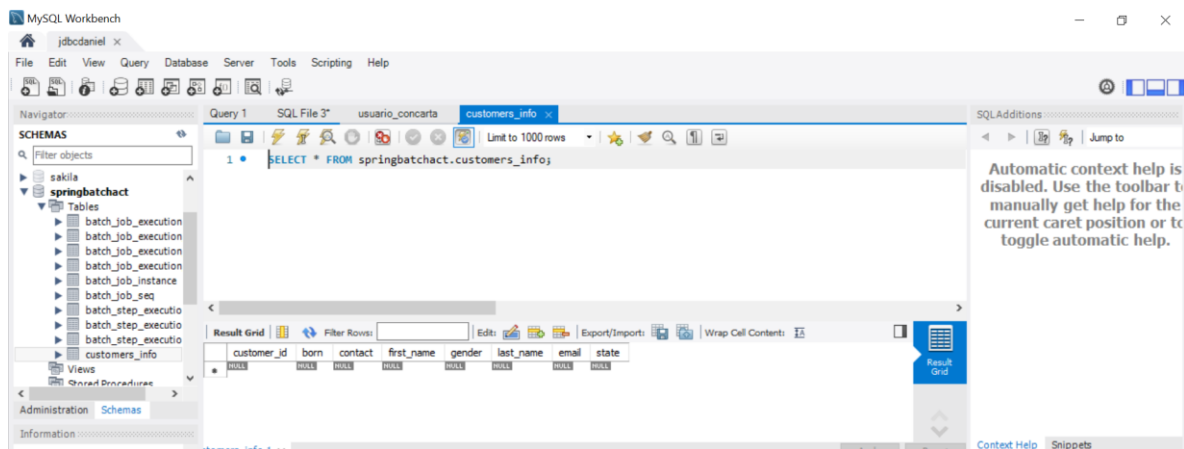
id	first	last	mail	gender	contactInfo	born	state
1	Dud	Ishak	dishak0@NV	Male	970-613-261	24/06/2012	Nevada
2	Jolyn	Bragg	jbragg1@VA.	Genderqueer	614-319-726	18/09/2003	Virginia
3	Sallie	Gaw	sgaw2@CO.c	Female	997-395-927	12/05/1994	Colorado
4	Belle	De Biasi	bdebiasi3@T	Female	592-563-042	08/04/2001	Texas
5	Bing	Filov	bfilov4@AR.	Male	343-984-115	19/10/1901	Arkansas
6	West	Douberday	wdouberday	Male	615-444-431	24/05/1990	California

The objective of this change is to ensure that only records belonging to the state of Texas are imported and stored in the database, thereby optimizing system resources and meeting business needs. Below is a detailed description of the state of the project before and after implementing these changes.

## Development:

We proceed to run the code to see the behavior of the batch first we can see in the first print the blank table of the customers info, then we can see that we want to process that are in Texas and it adds two, then from California and we end with Oklahoma

## Print



```
if(cliente.getState().equalsIgnoreCase("Texas"))
```

[HTTP localhost:8080/usercards/save](http://localhost:8080/usercards/save)

Save

POST localhost:9192/jobs/importCustomers

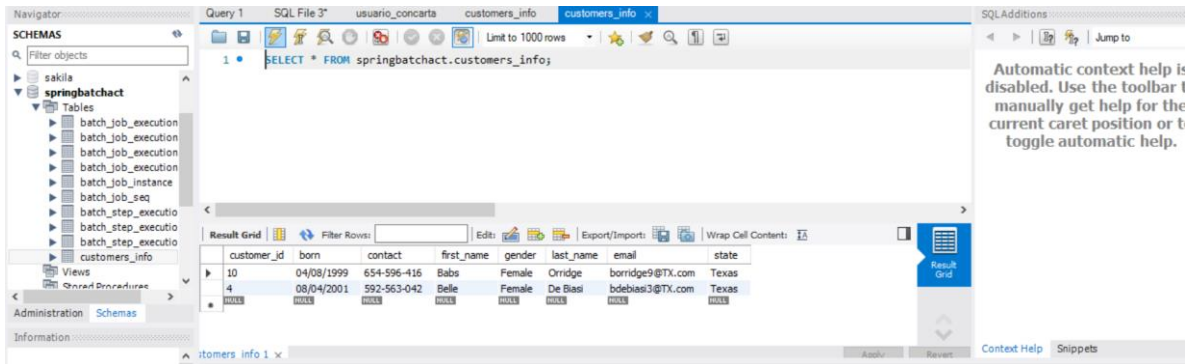
Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings

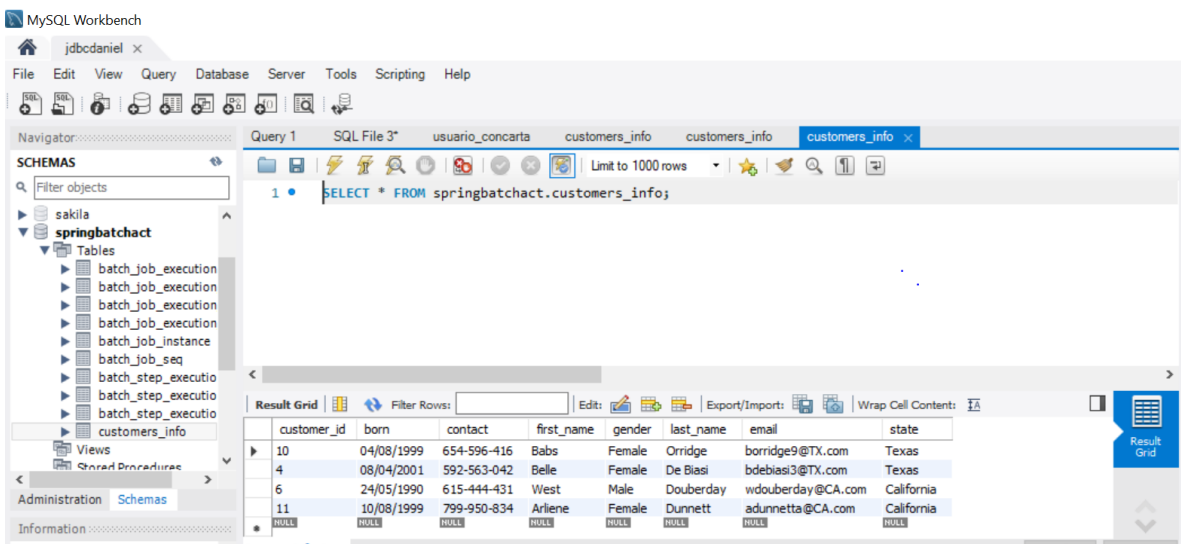
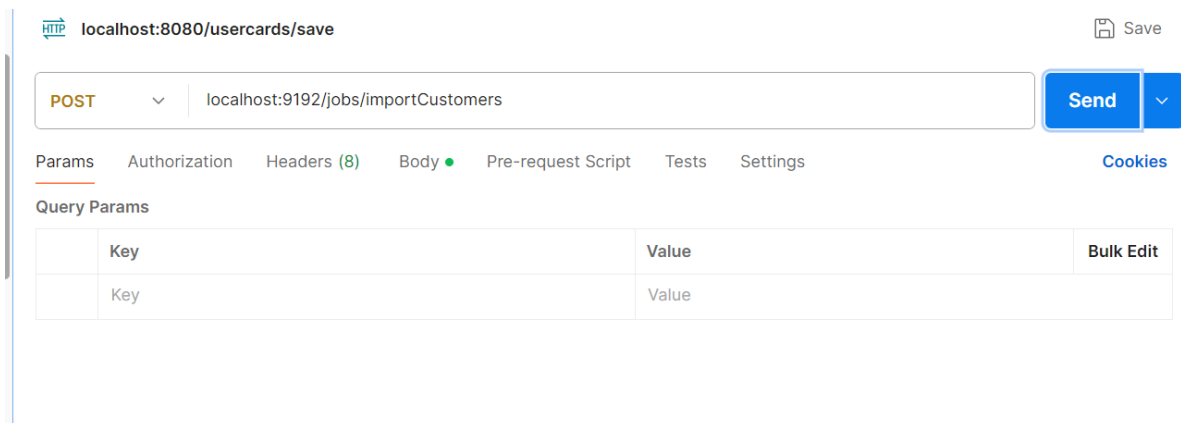
Cookies

Query Params

Key	Value	Bulk Edit
Key	Value	



```
if(cliente.getState().equalsIgnoreCase("California"))
```



```
if(cliente.getState().equalsIgnoreCase("Oklahoma"))
```

POST localhost:9192/jobs/importCustomers

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Bulk Edit
Key	Value	

ody Cookies Headers (4) Test Results 200 OK 903 ms 123 B Save Response

Pretty Raw Preview Visualize Text

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MySQL Workbench

Query 1 SQL File 3\* usuario\_concarta customers\_info customers\_info customers\_info customers\_info

1 • SELECT \* FROM springbatchact.customers\_info;

Result Grid

customer_id	born	contact	first_name	gender	last_name	email	state
6	24/05/1990	615-444-431	West	Male	Douberday	wdouberday@CA.com	California
11	10/08/1999	799-950-834	Arlene	Female	Dunnett	adunnetta@CA.com	California
14	11/08/1990	326-887-924	Othello	Male	Sperrett	osperrettd@OK.com	Oklahoma
9	24/10/2010	442-441-931	Standford	Genderqueer	Semour	ssemour8@OK.com	Oklahoma
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## Conclusion

The changes implemented in the batch processing system using Spring Batch have allowed compliance with new business requirements by filtering only customers from the state of Texas. This optimization has resulted in better use of system resources, including storage and processing time, thus improving the overall efficiency of the process, also we could see that Spring Batch can help us manage a lot of information

and automatize a lot of processes when there is supposed to be no activity so its important to know to use this framework.