DSC-650-Week-08-Mukherjee

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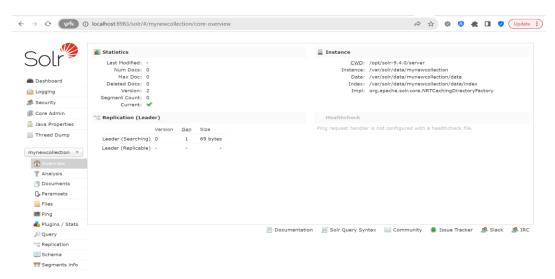
Date: 02/01/2024

Exercise 1: Create a Solr collection named 'mynewcollection'.

Screenshot showing 'mynewcollection' in the Solr Web Interface.

Exercise 2: Verify that 'mynewcollection' has been successfully created.

Access Solr's Web Interface at http://localhost:8983/solr/ and check for 'mynewcollection' under the "Core Selector" dropdown.



Exercise 3: Let's add the generated data to our collection.

Screenshot showing successful data ingestion messages in the terminal.

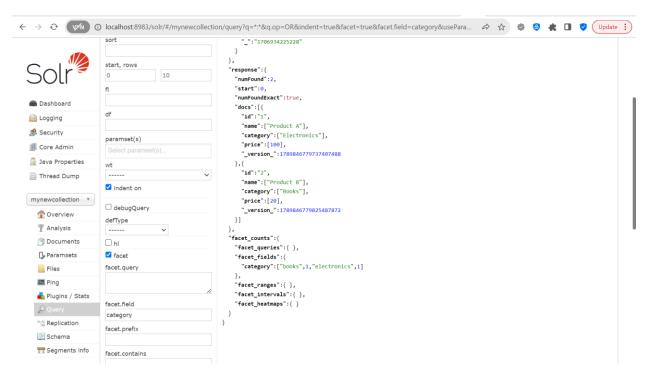
Exercise 4: Use Solr's query interface to retrieve all documents from 'mynewcollection'. curl "http://localhost:8983/solr/mynewcollection/select?q=*:*"

Exercise 5: Query for products in the 'Electronics' category. curl "http://localhost:8983/solr/mynewcollection/select?q=category:Electronics"

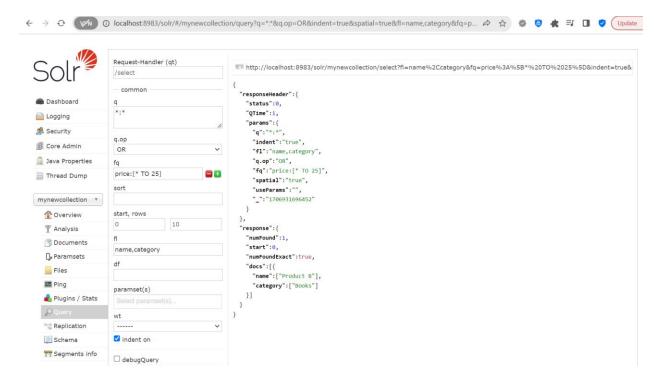
```
malr&ada8a7a5121/opt/molr-9.4.08 curl "http://localhost:8983/solr/mynewcollection/select?q="i""

"rsupmonamelador":{
    "rsupmonamelador":{
    "rotinum':0,
    "parame":{
    "curl "':1,
    "curl "':1,
```

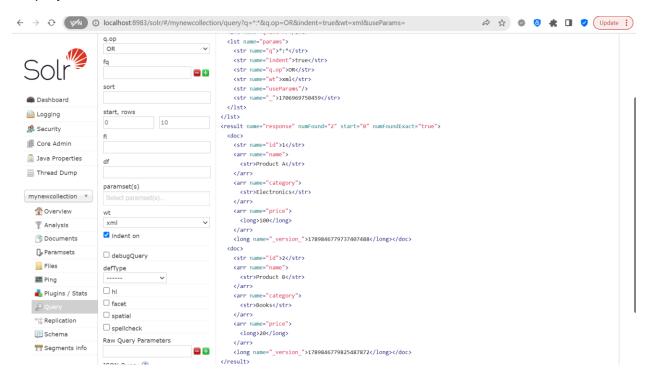
Exercise 6: Try a faceted search to count the number of products in each category.



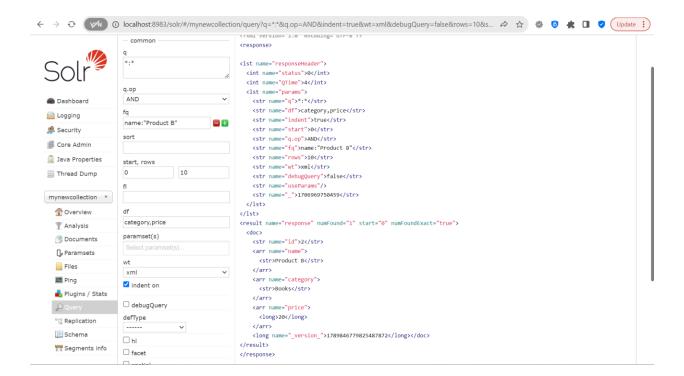
Select name, category where price less than 25.



Display data in xml format.



Select category, price for name: "Product B" and xml output.

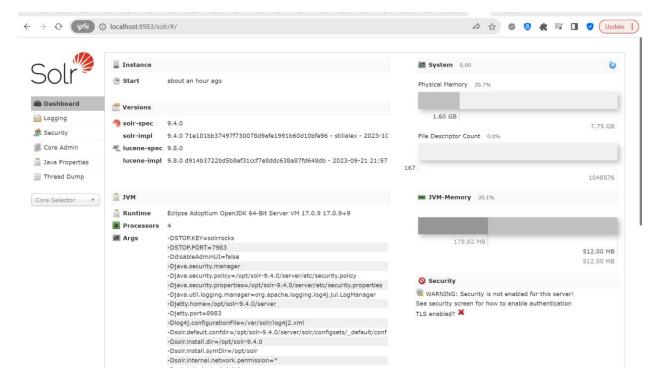


Create a new collection in Solr mynewcollection_1.

```
]solr86a404867c512:/opt/solr-9.4.0$/opt/solr/bin/solr create -c mynewcollection_1
WARNING: Using _default configset with data driven schema functionality. NOT RECOMMENDED for production use.
To turn off: bin/solr config -c mynewcollection_1 -p 8983 -action set-user-property -property update.autoCreateFields -value false

Created new core 'mynewcollection_1'
solr86a404867c512:/opt/solr-9.4.0$ [
```

Verify that 'mynewcollection_1' has been successfully created



Generate JSON data and add it to mycollection_1.

Structure of result. ison file

echo '[

```
{"student_id":"1", "name":"John", "Grade":"A", "Result":"Pass"},

{"student_id":"2", "name":"Ron", "Grade":"A+", "Result":"Pass"},

{"student_id":"3", "name":"Andrew", "Grade":"B", "Result":"Pass"},

{"student_id":"4", "name":"Sophia", "Grade":"B", "Result":"Pass"},

{"student_id":"5", "name":"Jason", "Grade":"F", "Result":"Fail"},

{"student_id":"6", "name":"Mady", "Grade":"A", "Result":"Pass"},

{"student_id":"7", "name":"Grayson", "Grade":"F", "Result":"Fail"}

]' > /tmp/result.json
```

Query your collection from command line and web interface:

```
"Roand":["Pain"]
"Sand:":["Pain"]
"Litt":"(Pain"]
"Litt":"(Pain")
"Carde":["Ar"]
"Renult::["Bain"]
"Litt":"(Bain")
"Renult::["Bain")
"Renult::["Bain"]
"Renult::["Bain"]
"Renult::["Bain"]
"Litt":"(Bain")
"Renult::["Bain"]
```

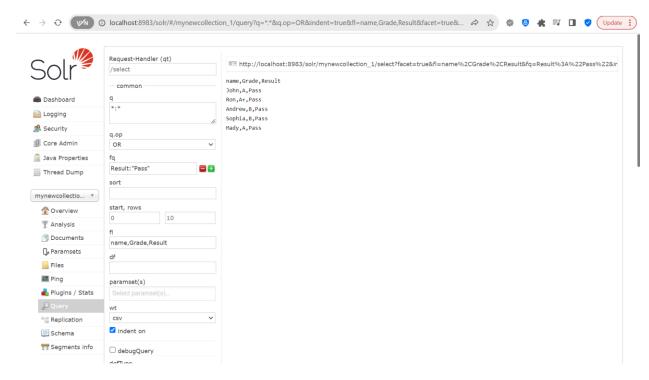
Query your collection from command line and web interface:

Select where name is Ron and select * where Garde = 'B'.

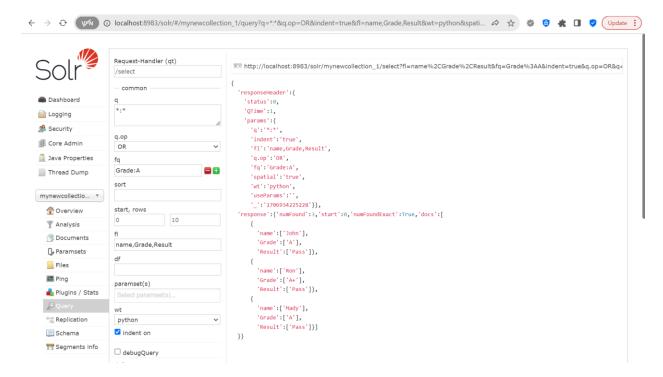
```
solr@Ca404867c512;/opt/solr=9.4.0% curl "http://localhost:8983/solr/mynewcollection_l/select?q=name:Ron"
    ""statuu":0,
    "Qrlse":1,
    "parse":1,
    "parse:1,
    "parse:1,
```

Query your collection from web interface:

Select name, Grade, Result from mynewcollection_1 where Result:"Pass" and extract in csv format.



Select name, Grade, Result from mynewcollection_1 where Grade = 'A' and extract in python format (df).



Grade wise count from from mynewcollection_1.

