**Week 8 Assignment- Apache Solr**

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[DSC650-T301: Big](https://cyberactive.bellevue.edu/webapps/blackboard/execute/courseMain?course_id=_512542_1) Data

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1. **Environment Initialization**

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1. **Creating a Solr Collection**

/opt/solr/bin/solr create -c mynewcollection

Verify that ‘mynewcollection’ has been successfully created.

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1. **Generating and Adding Data to the Collection**

echo '[

{"id":"1", "name":"Product A", "category":"Electronics", "price":"100"},

{"id":"2", "name":"Product B", "category":"Books", "price":"20"}

]' > /tmp/products.json

/opt/solr/bin/post -c mynewcollection /tmp/products.json

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1. **Use Solr’s query interface to retrieve all documents from ‘mynewcollection’.**

curl [http://localhost:8983/solr/mynewcollection/select?q=\*:\*](http://localhost:8983/solr/mynewcollection/select?q=*:*)

1. **Query for products in the ‘Electronics’ category.**

curl <http://localhost:8983/solr/mynewcollection/select?q=category:Electronics>

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[**Query ‘mynewcollection’ in Solr Web Interface**](http://localhost:8983/solr/#/mynewcollection/query)

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1. **Try a faceted search to count the number of products in each category.**

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**6.2. Faceting based on Price:**

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1. **Use the Web Interface to experiment further with various query parameters and filters.**
   1. **Sorting the data based on the “id” column in descending order:**

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* 1. **Using “Price” in the field list filter:**

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* 1. **Using facet on “category” and facet.contains=”nics”**

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1. **Custom JSON Data**
   1. **Create a new collection in Solr**

Creating a new collection named “**countries\_collection**” to search the countries file.

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* 1. **Querying the countries collection that returns 248 items**

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* 1. **Faceting on the “currency” field in the collection**

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* 1. **Faceting on the "regions” field in the collection:**

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* 1. **Filtering for the region that contains “Americas”**

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* 1. **Applying Multiple filters**

In this example, the results are sorted by the area in ***descending order***. Only the top 5 rows from the results are extracted using the ***start,rows*** option. The results only returns selected fields mentioned in the “***field list***” box. The subregion is set as the “***default field***” and the default value of “America” is included in the ***“query”*** box.

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