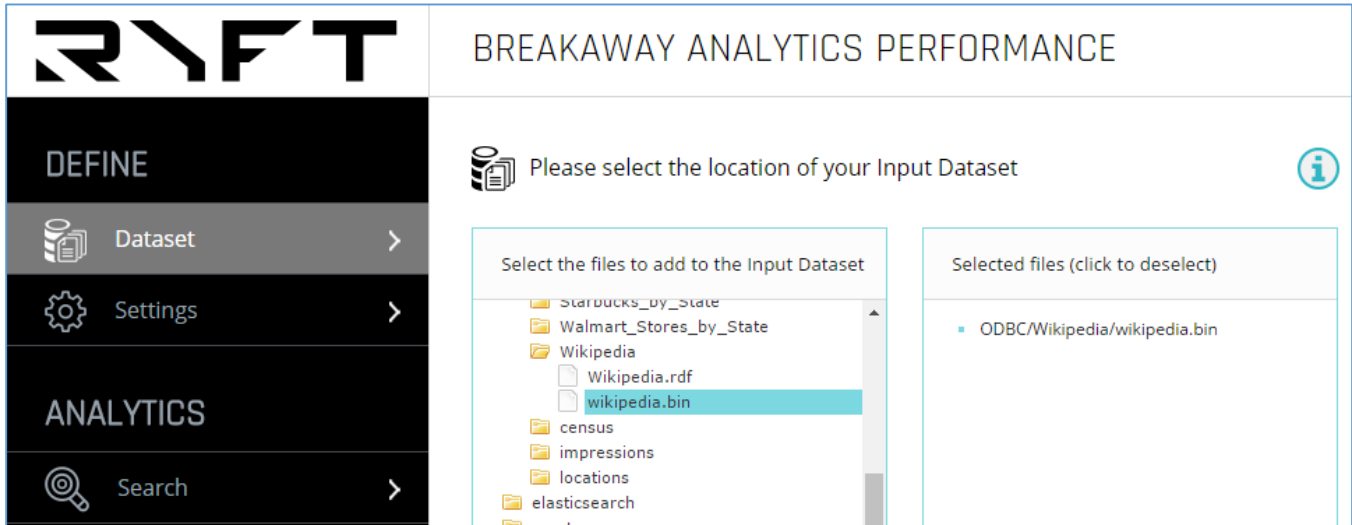
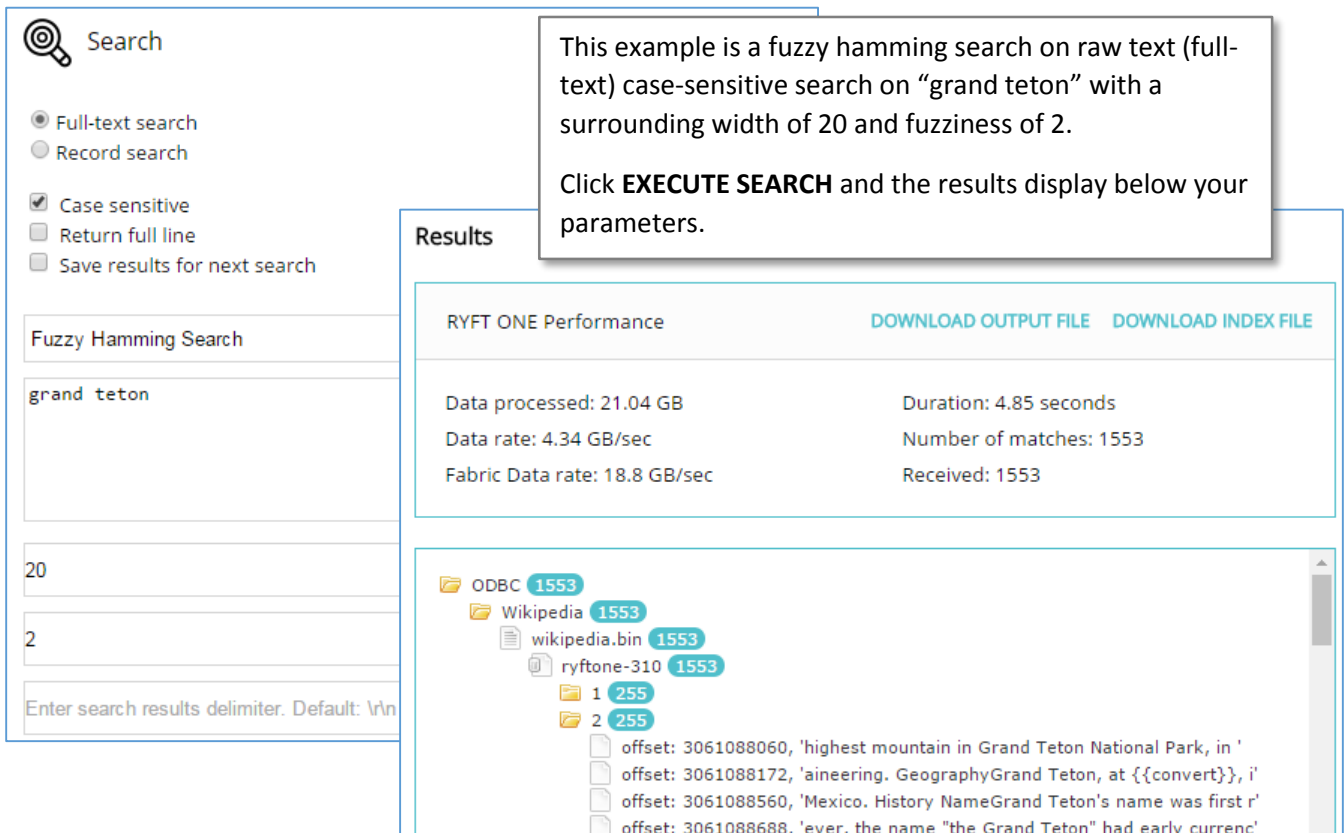



The Ryft ONE comes configured with a running web server that serves as a graphical interface using the Ryft primitives. Ensure the necessary RDF and data are installed on the Ryft ONE and then access the Ryft ONE interface using one of these methods:

- Use **http://<Ryft ONE IP address>:8989**
- If you're connected directly to the Ryft ONE, open your web browser to **http://<localhost>:8989**



The **Dataset** page displays the data files in the “/ryftone” directory on your Ryft ONE server. Scroll down to select the data file(s). Selected files display on the right side of the page. Click **Settings**, on the left, to specify the number of nodes to use for processing (max of 4); default is 4, all available nodes. Click **Search** to specify your parameters.



 Search

Full-text search
 Record search

Case sensitive
 Save results for next search

Numeric Search ▼

```
(RECORD.pickup_longitude CONTAINS NUMBER("-73.985534"
<= NUM <= "-73.984455"))
```

Enter search Fuzziness

Enter search results delimiter Default: \r\n

This is a record (structured) numeric search for records where the pickup longitude falls within the stated parameters.

It returns 270,592 record matches with a fabric data rate of 1.65 GB/second.

Drill-down to view each returned record. Notice the drill-down starts from the data file location (ODBC/NYC_Taxi/122015.NYC_Taxi), then the Ryft ONE server name (ryftone-310) and the folders. Select a folder and then click on an offset (record) to view the record.

The matching record displays below the list of matches.

Additional folders are created if more than 255 record matches are found.

Results

RYFT ONE Performance	DOWNLOAD OUTPUT FILE DOWNLOAD INDEX FILE
Data processed: 8.62 GB	Duration: 6.935 seconds
Data rate: 1.24 GB/sec	Number of matches: 270592
Fabric Data rate: 1.65 GB/sec	Received: 270592

- ODBC 270592
 - NYC_Taxi 270592
 - 122015.NYC_Taxi 270592
 - ryftone-310 270592
 - 1 255
 - 2 255
 - offset: 142265319
 - offset: 142321093
 - offset: 142379090

```
<rec>
<vendor_id>1</vendor_id>
<pickup_datetime>2015-12-01 18:50:55</pickup_datetime>
<dropoff_datetime>2015-12-01 19:36:18</dropoff_datetime>
<passenger_count>1</passenger_count>
<trip_distance>4.40</trip_distance>
<pickup_longitude>-73.985366821289063</pickup_longitude>
<pickup_latitude>40.727481842041016</pickup_latitude>
<rate_code>1</rate_code>
<store_and_fwd_flag>N</store_and_fwd_flag>
<dropoff_longitude>-73.959197998046875</dropoff_longitude>
<dropoff_latitude>40.781776428222656</dropoff_latitude>
<payment_type>1</payment_type>
<fare_amount>27.5</fare_amount>
<surcharge>1</surcharge>
<mta_tax>0.5</mta_tax>
<tip_amount>1</tip_amount>
<tolls_amount>0</tolls_amount>
<improvement_surcharge>0.3</improvement_surcharge>
<total_amount>30.3</total_amount>
</rec>
```

The pickup longitude of one of the results is highlighted to show that it falls within the search range.

Query on Ryft ONE Cluster

The screenshot displays the Ryft Web User Interface for a search query. At the top, a message says "Please select the location of your Input Dataset". Below this, there are two panels: "Select the files to add to the Input Dataset" and "Selected files (click to deselect)". The "Selected files" panel lists several files, including "reddit/RC_2014-12.data", "reddit/RC_2015-01.data", "reddit/RC_2015-02.data", "reddit/RC_2015-03.data", "ryftone-307", "RC_2015-01.data", "RyftOne-0004", "RC_2015-03.data", "ryftone-307", "44", "45", "46", "offset: 488149960, 'dit_id': 't5_2tx47', 'body': 'My day's going", "offset: 488222132, 'ecause people with 2 and 4 year degrees", "offset: 491952622, ' street.\n\nI read somewhere that in ord", "offset: 493925901, '58', 'edited': false, 'subreddit': 'AskReddit", "offset: 498960260, 'w months of the calendar year, how [Mic", "offset: 498960302, 'oft](https://en.wikipedia.org/wiki/Microsc", "offset: 499996524, ' I am getting smores to roast on the ope", "offset: 503953321, 's': 1, 'author_flair_text': 'http://amzn.com", "offset: 505105044, 'ics)\n\nFox news would be smart to cove", "offset: 513611283, 'flair_text': 'The Feral Femme', 'body': 'Yo", "offset: 518681671, 't in every section of The Blender. There i", "offset: 523739457, 'n': false, 'controversiality': 0, 'author_flair", "offset: 525205120, ' position_You for every 4 you send you", "dit_id": "t5_2tx47", "body": "My day's going pretty well so far! :D\n\nIf I coul", "maybe Bill gates (because money and success", "P)", "author_flair_text": "http://www.amazon.co.uk/registry/wishlist/3F4X".

A search panel on the right shows a search for "Bill Gates" using "Full-text search" with a "Fuzzy Hamming Search" dropdown. It includes input fields for "100" and "2", and buttons for "EXECUTE SEARCH" and "CLEAR RESULTS". Below the search panel, a "Results" section displays performance metrics: "RYFT ONE Performance" with "DOWNLOAD OUTPUT FILE" and "DOWNLOAD" links. The metrics are: "Data processed: 145.02 GB", "Duration: 6.378 seconds", "Data rate: 22.74 GB/sec", and "Number of matches: 56519". "Fabric Data rate: 90.23 GB/sec".

A callout box highlights a "Full matching string of 210 characters: 100 char. + Bill Gates + 100 char." with an arrow pointing to a specific record in the results list. The results list shows a unified list of data files with their match counts: "reddit 56519", "RC_2014-12.data 9337", "ryftone-301 9337", "RC_2016-01.data 14167", "RyftOne-0003 14167", "RC_2015-01.data 12761", "RyftOne-0004 12761", "RC_2015-03.data 10168", "ryftone-307 10168", "RC_2015-02.data 10086", and "RyftOne-0001 10086". Red arrows point from the callout box to the "ryftone-301" and "RyftOne-0003" entries, which are labeled "Datfile" and "RyftONE Server" respectively.

The unified list of data files shows the data files available on all Ryft ONE servers without distinguishing the server on which they are stored. Results show the number of matches in each data file, and the server on which that data file resides.

Select a specific record and the full matching string displays at the bottom.

The Ryft ONE Web UI provides a simple to use Web interface for execution of all search queries on the Ryft ONE server. It provides options to view results directly on the interface, or to download the results and index files for further processing. The UI uses the ryft-server REST API for all transactions on the Ryft ONE, taking advantage of all the functions supported by that interface. Queries can be run on a single Ryft ONE server or to a cluster of Ryft ONE servers, with data spread across multiple servers.

For more information, see the *Ryft ONE: User Guide*.