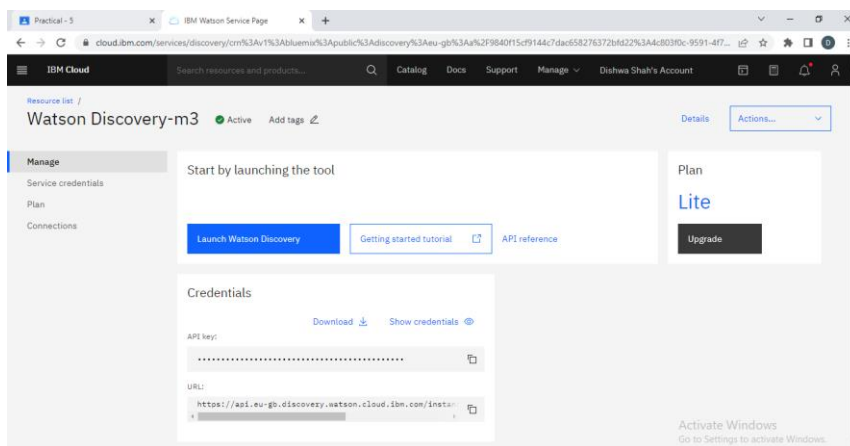


Institute of Computer Technology
B. Tech Computer Science and Engineering
Sub: Cognitive Computing (2CSE70E23)

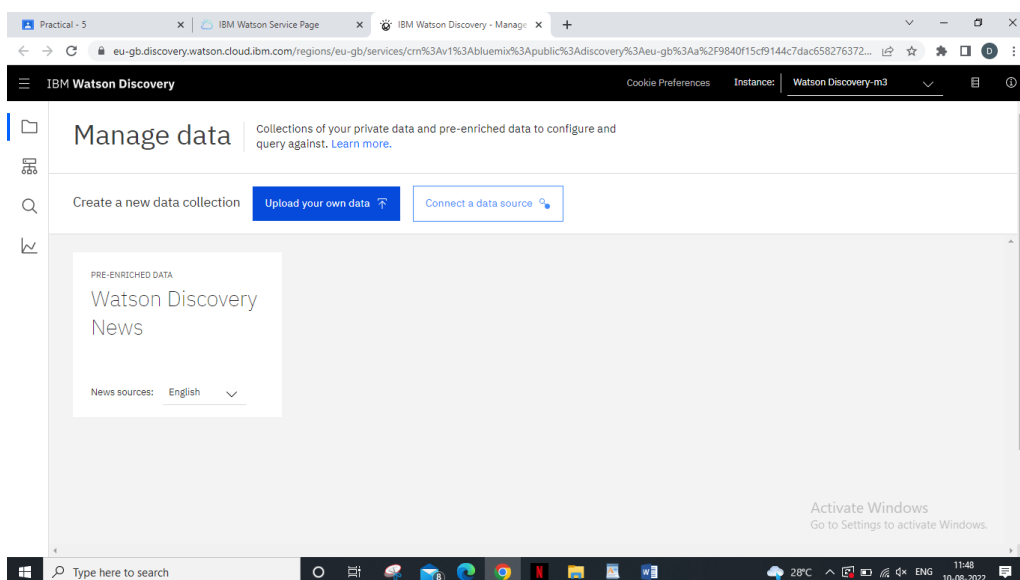
PRACTICAL 5: AIRBNB (WATSON DISCOVERY)

Smith as a Data analyst at AirBnB. His team is working on fine tune the overall experience of their customers visiting in Manhattan apartments. He is involved in this task and will gain insights from actual AirBnB reviews of Manhattan apartments. A typical query from other review engines may depict a certain apartment as most desirable to stay at. With the use of Watson Discovery to complete this task.

Open IBM Cloud and go to the Resource list of Watson Discovery.



Launch Watson Discovery (made for cognitive search, to find out the insights). Click on Upload your own data.



Name your new collection

Collection name

cgc 5

Select the language of your documents

English

Cancel

Create

Upload all the files. The files will get processed now.

IBM Watson Discovery interface for collection 'cgc 5'.

Overview: 20 documents, 0 documents failed. Created on 8/10/2022 2:20:44 am EDT. Last updated 8/10/2022 2:20:44 am EDT. [Upload documents](#)

Identified 12 fields from your data:

- text
- listing_name
- extracted_metadata
- listing_id
- host_name
- listing_longitude

Added 4 enrichments to your data:

- Entity Extraction:** Alesandra (5) | Robert (4) | NYC (3) | Times Square (3) | Candy (2)
- Sentiment Analysis:** 90% positive, 5% neutral, 5% negative

Now you're ready to query!

- Top entities with their average, min, max sentiment score. [Run](#)
- Documents about Robert as a Person with a very negative sentiment. [Run](#)

All files have been processed now. You can see various analysis of your data:

IBM Watson Discovery interface for collection 'cgc 5'.

Identified 12 fields from your data:

- text
- listing_name
- extracted_metadata
- listing_id
- host_name
- listing_longitude
- id
- reviewer_id
- host_id
- date

Added 4 enrichments to your data:

- Entity Extraction:** Paul (23) | Brooklyn (13) | NYC (13) | Manhattan (12) | New York (12)
- Sentiment Analysis:** 89% positive, 1% neutral, 10% negative
- Concept Tagging:** New York City (35) | English-language films (29) | Manhattan (25) | Upper West Side (14) | New York (10)

Now you're ready to query!

- Top entities with their average, min, max sentiment score. [Run](#)
- Documents about Robert as a Person with a very negative sentiment. [Run](#)
- Top people related to /art and entertainment/shows and events. [Run](#)

[Build your own query](#)

Go to Collection View and then to entities:

IBM Watson Discovery

cg5 / View data schema

Collection view Document view

Fields

text

enriched_text (Watson Enrichment)

entities

sentiment

concepts

categories

listing_name

extracted_metadata

listing_id

text

Top values

Achilles is a very pleasant host! I did not see him that much, but when I did he made me feel welcome. The apartment and the room itself was nice and clean. I enjoyed my stay and would definitely recommend this place. Thank you! 1 mention

Alesandra is a great host! She is warm, kind and care a lot for details. I would certainly recommend this place. 1 mention

Alesandra is an amazing host, I would strongly recommend her place. Very reasonable price for the good quality and cozy accommodation. Really, no complaints at all. Go ahead and book her flat, guys! 1 mention

Always a pleasure to stay at Paul' place! I recommend it to everybody! 4 mention

Die Zeit bei Robert war sehr schön, die Wohnung liegt absolut zentral und ist ideal um 1 mention

Enriched_text: Watson enrichment model. Observe:

IBM Watson Discovery

cg5 / View data schema

Collection view Document view

Fields

text

enriched_text (Watson Enrichment)

entities

sentiment

concepts

categories

listing_name

extracted_metadata

listing_id

host_name

listing_longitude

id

reviewer_id

enriched_text.entities (Watson Enrichment)

Fields	Example values
enriched_text.entities.text	Marquis
enriched_text.entities.type	Person
enriched_text.entities.relevance	0.844115
enriched_text.entities.count	2
enriched_text.entities.sentiment.score	0.662598
enriched_text.entities.disambiguation.name	--
enriched_text.entities.disambiguation.subtype	--
enriched_text.entities.disambiguation.dbpedia_resource	--

Sample queries using this enrichment

Entities of type Person which have negative sentiment

Go to Build Queries.

IBM Watson Discovery

cg5 / Build queries

Build a query using one or more of these components. Learn more.

Search for documents

Include analysis of your results

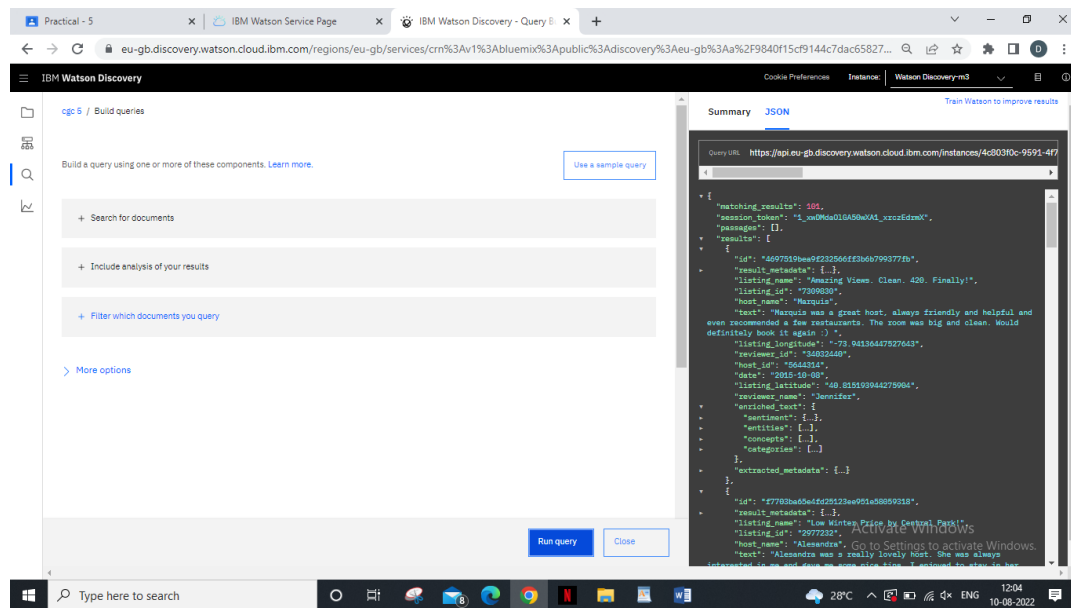
Filter which documents you query

More options

Run query

Close

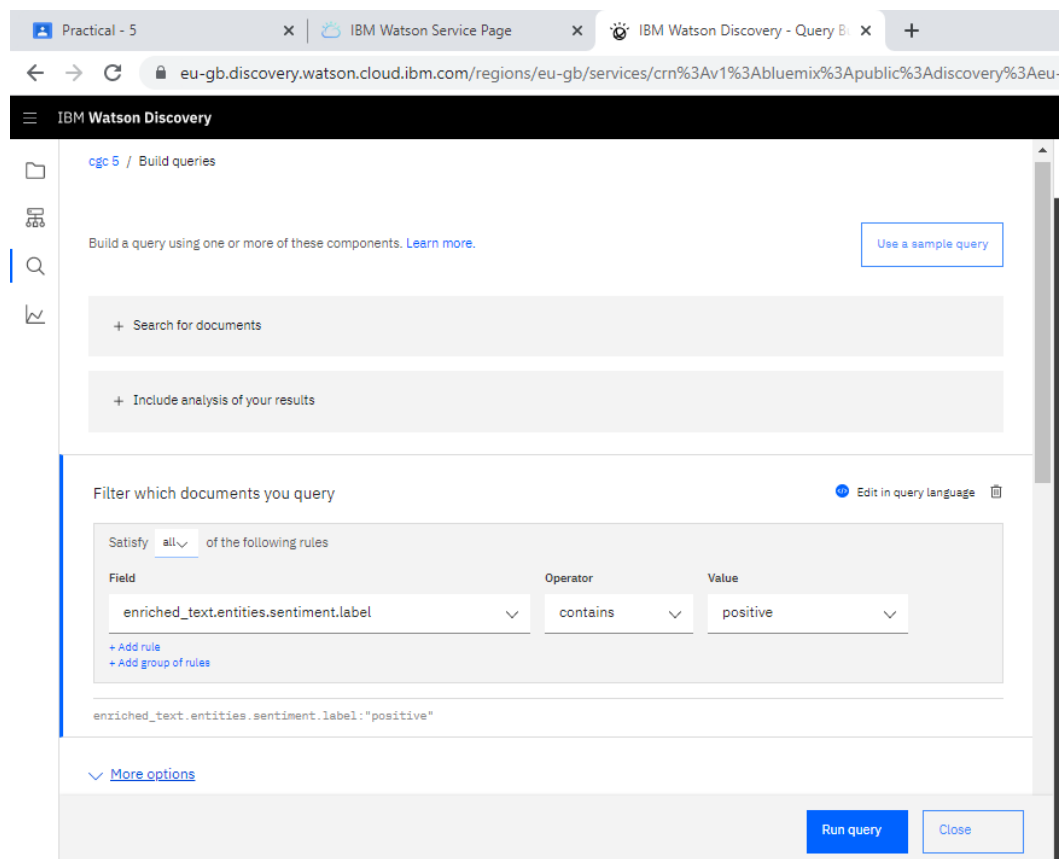
Try running query without any entries. It will show all the content.



You can select more than one types to run together.
You can select or can go type in the query builder.

Queries to execute:

1) Entities of the person who has positive sentiment



Summary JSON [Train Watson to improve results](#)

Query URL `https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7`

Results

Showing 10 of 79 matching documents

airbnb_review99.json

Sentiment	positive
airbnb_review123.json	
airbnb_review126.json	
airbnb_review85.json	
airbnb_review92.json	
airbnb_review7.json	
airbnb_review152.json	
airbnb_review160.json	
airbnb_review145.json	
airbnb_review157.json	

Review sentiment under `enriched_text`, not under `entities`.

Summary JSON

Train Watson to improve results

```
Query URL https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7

{
  "matching_results": 79,
  "session_token": "1_xwDMda01GA59VeC1o17uLuNE01",
  "passages": [],
  "results": [
    {
      "id": "4697519bea9f232566ff3b6b799377fb",
      "result_metadata": {...},
      "listing_name": "Amazing Views. Clean. 420. Finally!",
      "listing_id": "7309830",
      "host_name": "Marquis",
      "text": "Marquis was a great host, always friendly and helpful and even recommended a few restaurants. The room was big and clean. Would definitely book it again :)",
      "listing_longitude": "-73.94136447527643",
      "reviewer_id": "34032440",
      "host_id": "5644314",
      "date": "2015-10-08",
      "listing_latitude": "40.815193944275904",
      "reviewer_name": "Jennifer",
      "enriched_text": {
        "sentiment": {
          "document": {
            "score": 0.999008,
            "label": "positive"
          }
        }
      },
      "entities": [
        {
          "count": 2,
          "sentiment": {
            "score": 0.662598,
            "label": "positive"
          },
          "text": "Marquis",
          "relevance": 0.844415
        }
      ]
    }
  ]
}
```

Summary JSON

Query URL <https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7>

```
--
{
  "id": "f7703ba65e4fd25123ee951e58059318",
  "result_metadata": {...},
  "listing_name": "Low Winter Price by Central Park!",
  "listing_id": "2977232",
  "host_name": "Alesandra",
  "text": "Alesandra was s really lovely host. She was always
interested in me and gave me some nice tips. I enjoyed to stay in her
apartment which is very inviting and comfortable. The subway is very
closed and to the Central Park only 5 min walk. \r\n\r\n:-). - ! Highly
recommended ! - :-)",
  "listing_longitude": "-73.94482017016313",
  "reviewer_id": "25012919",
  "host_id": "15185319",
  "date": "2015-01-21",
  "listing_latitude": "40.79285153420157",
  "reviewer_name": "Philipp",
  "enriched_text": {
    "sentiment": {
      "document": {
        "score": 0.744476,
        "label": "positive"
      }
    },
    "entities": [
      {
        "count": 1,
        "sentiment": {
          "score": -0.519345,
          "label": "negative"
        },
        "text": "Central Park",
        "relevance": 0.945998,
        "type": "Facility"
      }
    ]
  }
}
```

Activate Windows
Go to Settings to activate Windows.

28°C 12:17 ENG

2) Finding a room with a great view.

The screenshot displays the IBM Watson Discovery Query Builder interface. The left sidebar shows the 'Build queries' section with a search bar containing 'great view'. The main area shows the query builder with options to 'Include analysis of your results' and 'Filter which documents you query'. The right sidebar shows the 'Summary' and 'JSON' tabs. The 'JSON' tab displays the query URL and the resulting JSON output, which includes passages and results.

Summary **JSON** [Train Watson to improve results](#)

Query URL: <https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-...>

Passages

"Amazing Views. Clean. 420. Finally!"

"Amazing Views. Clean. 420. Finally!"

"Marque made us feel very welcome and his apartment had an incredible view. A very comfortable space I recommend."

"Great experience renting with Paul! Clean room, comfortable apartment, great atmosphere, great location. I recommend it for anyone looking for a comfortable spot in close-in Brooklyn."

"If you're the type who expects perfection, this probably isn't the place for you as it does have some quirks. If you want a true NY experience, in a clean and comfortable apartment with a great host, and a great price, book now!!"

Results

Showing 10 of 46 matching documents

airbnb_review99.json

Sentiment	positive
Text	"...Marque was a great host, always friendly and helpful and even recommended a few restaurants. The room was big and clean. Would definitely book it again!"
Listing_name	Amazing Views. Clean. 420. Finally!


```

{
  "matching_results": 46,
  "session_token": "1_xwDMda01GA5oquF1_rU5zcTxd0",
  "passages": [
    {
      "document_id": "19aa7079b08499e76ee682c820744371",
      "passage_score": 8.608427612208626,
      "passage_text": "Amazing Views. Clean. 420. Finally!",
      "start_offset": 0,
      "end_offset": 35,
      "field": "listing_name"
    },
    {
      "document_id": "4697519bea9f232566ff3b6b799377fb",
      "passage_score": 8.608427612208626,
      "passage_text": "Amazing Views. Clean. 420. Finally!",
      "start_offset": 0,
      "end_offset": 35,
      "field": "listing_name"
    },
    {
      "document_id": "19aa7079b08499e76ee682c820744371",
      "passage_score": 8.10290916696442,
      "passage_text": "Marquis made us feel very welcome and his apartment had an incredible view. A very comfortable space I recommend.",
      "start_offset": 0,
      "end_offset": 113,
      "field": "text"
    },
    {
      "document_id": "5518201c31eeca8dcfdb664600229af0",
      "passage_score": 5.504074064623768,
      "passage_text": "Great experience renting with Paul! Clean room, comfortable apartment, great atmosphere, great location. I recommend it for anyone looking for a comfortable spot in close-in Brooklyn.",
      "start_offset": 0
    }
  ]
}

```

It is also considering synonyms of 'great view' which is a practical use of WordNet. It might show answers according to 'great view', 'great' something or something 'view'.

By using Discovery Query Language (usually used when you want to find something specific rather than something general):

IBM Watson Discovery

Build a query using one or more of these components. [Learn more.](#) [Use a sample query](#)

Search for documents Edit in query language

Use natural language [Use the Discovery Query Language](#)

Satisfy **all** of the following rules

Field	Operator	Value
enriched_text.concepts.text	contains	Columbus Circle

[+ Add rule](#)
[+ Add group of rules](#)

enriched_text.concepts.text:"Columbus Circle"

[+ Include analysis of your results](#)

[+ Filter which documents you query](#)

[Run query](#) [Close](#)

Summary JSON

Query URL: <https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7>

Results

Showing 1 of 1 matching documents

airbnb_review798.json

Sentiment	Concepts
positive	Columbus Circle

Activate Windows
Go to Settings to activate Windows.

Summary JSON

Query URL: <https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7>

```

{
  "http://dbpedia.org/resource/Broadway_(New_York_City)": {
    "text": "Times Square",
    "relevance": 0.601521,
    "dbpedia_resource": "http://dbpedia.org/resource/Times_Square"
  },
  "http://dbpedia.org/resource/Upper_West_Side": {
    "text": "Upper West Side",
    "relevance": 0.5508,
    "dbpedia_resource": "http://dbpedia.org/resource/Upper_West_Side"
  },
  "http://dbpedia.org/resource/Hell's_Kitchen,_Manhattan": {
    "text": "Hell's Kitchen, Manhattan",
    "relevance": 0.492948,
    "dbpedia_resource": "http://dbpedia.org/resource/Hell's_Kitchen,_Manhattan"
  },
  "http://dbpedia.org/resource/Columbus_Circle": {
    "text": "Columbus Circle",
    "relevance": 0.442455,
    "dbpedia_resource": "http://dbpedia.org/resource/Columbus_Circle"
  }
},
{
  "categories": [...],
  "extracted_metadata": {...},
  "highlight": {...}
},
{
  "retrieval_details": {
    "document_retrieval_strategy": "untrained"
  }
}

```

Activate Windows
Go to Settings to activate Windows.

3) Find a places that have reviewed as quiet.

The screenshot shows the IBM Watson Discovery console interface. On the left, the 'Build queries' section is active, showing a search for documents with the query 'quiet'. The 'Passages' section is also visible. On the right, the 'Summary' tab is selected, displaying the query URL and the results. The results show a list of documents, with the first document titled 'airbnb_review820.json' having a positive sentiment. The text of the review is displayed below the sentiment.

Query URL: <https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-...>

Passages

"Quiet Studio in Prime SoHo"

"Quiet Studio in Prime SoHo"

"Quiet Studio in Prime SoHo"

"Quiet Studio in Prime SoHo"

"Quiet Studio in Prime SoHo"

Results

Showing 10 of 20 matching documents

airbnb_review820.json

Sentiment: positive

Text: "...the place is very quiet and the large bed is very nice to recover after big walking days!! you've good restaurants around and a lovely bagels shop just right in the corner of the street to get typical NY breakfast! Casper was really reactive in the discussions before our journey, to answer to our questions and prepare the meeting to get the keys..."

Listing_name: Comfortable, clean & quiet in EV

Summary **JSON**[Train Watson to improve results](#)

Query URL <https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7>

```

{
  "document_id": "4/193321/3e813010/4/040/89500310",
  "passage_score": 6.117841183794906,
  "passage_text": "Quiet Studio in Prime SoHo",
  "start_offset": 0,
  "end_offset": 26,
  "field": "listing_name"
},
{
  "document_id": "50a52a0e0587e3638af10d5bd1e3f896",
  "passage_score": 6.117841183794906,
  "passage_text": "Quiet Studio in Prime SoHo",
  "start_offset": 0,
  "end_offset": 26,
  "field": "listing_name"
},
{
  "document_id": "e62b76db403a97df441741c93785371a",
  "passage_score": 6.117841183794906,
  "passage_text": "Quiet Studio in Prime SoHo",
  "start_offset": 0,
  "end_offset": 26,
  "field": "listing_name"
}
],
"results": [
  {
    "id": "c76cdddaf29db7a83f2793b9b4534401",
    "result_metadata": {...},
    "listing_name": "Comfortable, clean & quiet in EV",
    "listing_id": "651475",
    "host_name": "Casper",
    "text": "Casper's apartment is nice, clean and very strategically placed to visit manhattan!! 3 mn by walking to subway \r\nthe place is very quiet and the large bed is very nice to recover after big walking days !!\r\nyou've good restaurants around and a lovely bagel's shop just right in the corner of the street to get typical NY breakfast!!\r\nCasper"
  }
]

```

4) Any negative review?

IBM Watson Discovery - Query Builder

Build a query using one or more of these components. [Learn more.](#)

+ Search for documents

+ Include analysis of your results

Filter which documents you query

Satisfy all of the following rules

Field	Operator	Value
enriched_text.sentiment.document.label	contains	negative

+ Add rule
+ Add group of rules

enriched_text.sentiment.document.label:"negative"

+ More options

Run query Close

Summary JSON

Query URL: <https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7b-bede-d57>

Results

Showing 10 of 10 matching documents

- airbnb_review397.json
Sentiment: negative
- airbnb_review536.json
- airbnb_review31.json
- airbnb_review204.json
- airbnb_review264.json
- airbnb_review713.json
- airbnb_review748.json
- airbnb_review744.json
- airbnb_review679.json
- airbnb_review666.json

Activate Windows
Go to Settings to activate Windows.

Summary JSON

Query URL: <https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7b-bede-d57>

```

{
  "listing_latitude": 40.606101009197490,
  "reviewer_name": "Ricky",
  "enriched_text": {
    "sentiment": {
      "document": {
        "score": -0.466502,
        "label": "negative"
      }
    },
    "entities": [...],
    "concepts": [...],
    "categories": [...]
  },
  "extracted_metadata": {...},
  "highlight": {...}
},
{
  "id": "2116bcc2facf398158be3ad6984ffe0b",
  "result_metadata": {...},
  "listing_name": "Your Stunning Vacation Apartment!",
  "listing_id": "415678",
  "host_name": "Will",
  "text": "Loved the brownstone and the area. Gave us a real look at New York. Close to the subway and supermarket as well great shopping only a couple of streets away. Apartment was very clean and had everything we required and although it looked exactly as in the photos was quite old and patched up very poorly. We arrived on a hot day and it took 2 days for the apartment to cool down. The airconditioning was close to useless. The fridge did not keep our drinks cold and the bed in the main room was only a double and the springs squeaked every time you moved. Curtains did not darken the rooms and the sheets and towels were of very poor quality. ",
  "listing_longitude": -73.9409468848735,
  "reviewer_id": "11827361",
  "host_id": "127772",
  "date": "2014-06-26",
  "listing_latitude": 40.818218466557525,
  "reviewer_name": "Dianne",
  "enriched_text": {
    "sentiment": {
      "document": {
        "score": -0.464951,
        "label": "negative"
      }
    }
  }
}

```

Activate Windows
Go to Settings to activate Windows.

5) Finding apartments that are near tourist attractions.

The screenshot shows the IBM Watson Discovery console interface. The left sidebar contains navigation icons for 'Build queries', 'Search', and 'Results'. The main area is titled 'Build queries' and includes a 'Use a sample query' button. Below this, there are two buttons: '+ Search for documents' and '+ Include analysis of your results'. A section titled 'Filter which documents you query' allows users to define rules. A rule is currently defined with the field 'enriched_text.entities.disambiguation.subtype', the operator 'contains', and the value 'TouristAttraction'. Below the rule, the text 'enriched_text.entities.disambiguation.subtype: "TouristAttraction"' is displayed. There are links for '+ Add rule' and '+ Add group of rules'. A 'More options' link is also present. At the bottom, there is a 'Passages' section with the option 'Include relevant passages'. On the right side, the 'Summary' tab is active, showing the query URL and a list of results. The results section indicates 'Showing 4 of 4 matching documents' and lists four documents: 'airbnb_review371.json', 'airbnb_review50.json', 'airbnb_review902.json', and 'airbnb_review694.json'. The 'airbnb_review371.json' document is expanded, showing a 'Sentiment' of 'positive'. At the bottom right, there is an 'Activate Windows' watermark.

IBM Watson Discovery

Build queries

Use a sample query

+ Search for documents

+ Include analysis of your results

Filter which documents you query

Satisfy all of the following rules

Field Operator Value

enriched_text.entities.disambiguation.subtype contains TouristAttraction

+ Add rule

+ Add group of rules

enriched_text.entities.disambiguation.subtype: "TouristAttraction"

More options

Passages

Include relevant passages

Run query Close

Summary JSON

Query url: https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7b-bede-d97f

Results

Showing 4 of 4 matching documents

airbnb_review371.json

Sentiment positive

airbnb_review50.json

airbnb_review902.json

airbnb_review694.json

Activate Windows

Go to Settings to activate Windows.

Summary JSON

[View Watson to improve result](#)

```

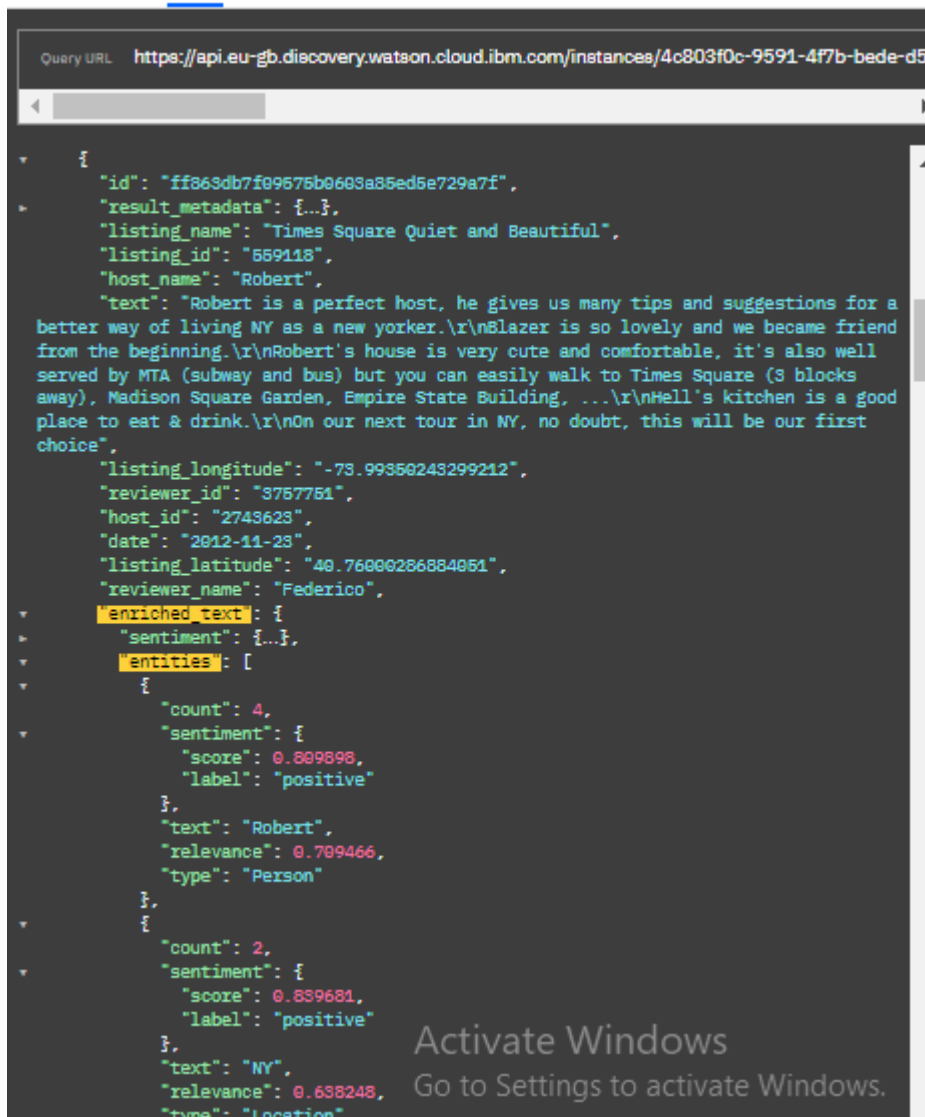
Query URL https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7b-beda-d57

{
  "matching_results": 4,
  "session_token": "1_xwDMda0lGA5tnAM1EhLvdwyNLE",
  "passages": [],
  "results": [
    {
      "id": "ce8b84eead6d2d834728668fd8a380a5",
      "result_metadata": {...},
      "listing_name": "Inexpensive private room in Midtown",
      "listing_id": "693479",
      "host_name": "Alejandro",
      "text": "Alejandro is a great host. He is very kind and friendly. His apartment is very well located; just a few blocks from Empire State Building. The metro is very close also and the bus stop is one block away from the place.\r\n\r\nI recomend Alejandro as a host. I really enjoyed it.",
      "listing_longitude": "-73.97544682731017",
      "reviewer_id": "S236617",
      "host_id": "3547349",
      "date": "2012-12-18",
      "listing_latitude": "40.74149171363009",
      "reviewer_name": "Dario",
      "enriched_text": {
        "sentiment": {...},
        "entities": [
          {
            "count": 4,
            "sentiment": {
              "score": 0.783419,
              "label": "positive"
            },
            "text": "Alejandro",
            "relevance": 0.901474,
            "type": "Person"
          },
          {
            "count": 1,
            "sentiment": {
              "score": 0,
              "label": "neutral"
            },
            "text": "Empire State Building",
            "relevance": 0.001053
          }
        ]
      }
    }
  ]
}

```

Summary JSON

train watson to improve result



```

Query URL https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7b-bede-d57

{
  "id": "ff863db7f09675b0603a85ed5e729a7f",
  "result_metadata": {...},
  "listing_name": "Times Square Quiet and Beautiful",
  "listing_id": "559118",
  "host_name": "Robert",
  "text": "Robert is a perfect host, he gives us many tips and suggestions for a better way of living NY as a new yorker.\r\nBlazer is so lovely and we became friend from the beginning.\r\nRobert's house is very cute and comfortable, it's also well served by MTA (subway and bus) but you can easily walk to Times Square (3 blocks away), Madison Square Garden, Empire State Building, ... \r\nHell's kitchen is a good place to eat & drink.\r\nOn our next tour in NY, no doubt, this will be our first choice",
  "listing_longitude": "-73.99350243299212",
  "reviewer_id": "3757751",
  "host_id": "2743623",
  "date": "2012-11-23",
  "listing_latitude": "40.76000286884051",
  "reviewer_name": "Federico",
  "enriched_text": {
    "sentiment": {...},
    "entities": [
      {
        "count": 4,
        "sentiment": {
          "score": 0.809898,
          "label": "positive"
        },
        "text": "Robert",
        "relevance": 0.709466,
        "type": "Person"
      },
      {
        "count": 2,
        "sentiment": {
          "score": 0.839681,
          "label": "positive"
        },
        "text": "NY",
        "relevance": 0.638248,
        "type": "Location"
      }
    ]
  }
}

```

(A library of subtypes is maintained which helps to filter according to the subtypes.)
Near Museum:

The screenshot shows the IBM Watson Discovery console. On the left, the 'Build queries' section is active, showing a filter rule: 'enriched_text.entities.disambiguation.subtype' contains 'Museum'. Below this, the 'Passages' section is visible. On the right, the 'Summary' tab is selected, showing a table of results for the query. The table has columns for 'Sentiment' (positive), 'Concepts' (Museum), and 'Entities' (National Museum of Natural History). The 'Text' column shows a snippet of a review about an apartment near Central Park.

The screenshot shows the IBM Watson Discovery console with the 'JSON' tab selected. It displays the raw JSON output of a query. The output includes a 'matching_results' field with a value of 3, a 'session_token', and a 'results' array. The first result in the array is a JSON object containing details about a listing, including its ID, listing name, listing ID, host name, text, listing longitude, reviewer ID, host ID, date, listing latitude, reviewer name, enriched text, and entities. The entities array contains a single object with a count of 3 and a sentiment score of 0.864183.

EXTRA: Use both components together:

IBM Watson Discovery - Query Builder

Build a query using one or more of these components. [Learn more.](#) [Use a sample query](#)

Search for documents

Use natural language [Use the Discovery Query Language](#)

Satisfy [all](#) of the following rules

Field	Operator	Value
host_name	contains	Paul

[+ Add rule](#)
[+ Add group of rules](#)

host_name: "Paul"

[+ Include analysis of your results](#)

Filter which documents you query

Satisfy [all](#) of the following rules

Field	Operator	Value
enriched_text.sentiment.document.label	contains	positive

[Run query](#) [Close](#)

Summary JSON

Query URL: <https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7b-bede-d57>

Passages

"Paul"

"Paul"

"Paul"

"Paul"

"Paul"

Results

Showing 10 of 22 matching documents

[airbnb_review321.json](#)

Sentiment: positive

Entities: Paul

Text: "...Paul's place is great! Everything is exactly as pictured/described and in an awesome location. Paul is super sweet and has great recommendations for places to go nearby. I was incredibly comfortable there and would definitely stay again..."

Host_name: Paul

[airbnb_review326.json](#)

[airbnb_review286.json](#)

[airbnb_review289.json](#)

Activate Windows
Go to Settings to activate Windows.

Summary JSON

Query URL: <https://api.eu-gb.discovery.watson.cloud.ibm.com/instances/4c803f0c-9591-4f7b-bede-d57>

```

{
  "passage_text": "Paul",
  "start_offset": 0,
  "end_offset": 4,
  "field": "host_name"
},
{
  "results": [
    {
      "id": "25e2cbbcb108a2c814fef1aa75d29126e",
      "result_metadata": {
        "listing_name": "Spacious room in cozy Boerum Hill",
        "listing_id": "506306",
        "host_name": "Paul",
        "text": "Paul's place is great! Everything is exactly as pictured/described and in an awesome location. Paul is super sweet and has great recommendations for places to go nearby. I was incredibly comfortable there and would definitely stay again.",
        "listing_longitude": "-73.98937115554887",
        "reviewer_id": "2127702",
        "host_id": "2495797",
        "date": "2015-06-22",
        "listing_latitude": "40.686986552490545",
        "reviewer_name": "Cory",
        "enriched_text": {
          "sentiment": {
            "document": {
              "score": 0.956689,
              "label": "positive"
            }
          },
          "entities": [...],
          "concepts": [...],
          "categories": [...]
        },
        "extracted_metadata": {
          "highlight": {

```

OR like this:

The screenshot displays the IBM Watson Discovery console interface. On the left, a sidebar shows navigation options like 'cgc 5 / Build queries'. The main area is titled 'Search for documents' and includes a 'Use natural language' tab and a 'Use the Discovery Query Language' tab. Below these, a query builder table is visible:

Satisfy	Field	Operator	Value
all	host_name	contains	Paul
	enriched_text.categories.label	contains	/travel/traveling with kids

Below the table, the query is shown as: `host_name:"Paul",enriched_text.categories.label:"/travel/traveling with kids"`. There are buttons for '+ Add rule', '+ Add group of rules', '+ Include analysis of your results', and '+ Filter which documents you query'. At the bottom, there are 'Run query' and 'Close' buttons.

On the right, the 'Summary' tab is active, showing the query URL and a 'Passages' section with three results, each containing a snippet of text. Below this, the 'Results' section shows 'Showing 4 of 4 matching documents'. The first result is 'airbnb_review245.json' with the following details:

Field	Value
Sentiment	positive
Categories	/travel/traveling with kids
Entities	Paul
Text	"...I really enjoyed my stay with Paul and would absolutely recommend him to friends visiting NYC. He was a great host and full of intelligent conversation. Wish that I had a few more nights at his place! Paul's apartment is beautiful, clean, and comfortable. Conveniently located a short couple blocks from the subway, it makes it super easy to get to Manhattan. I highly recommend it!"
Host_name	Paul

The text of the first result is: "I really enjoyed my stay with Paul and would absolutely recommend him to friends visiting NYC. He was a great host and full of intelligent conversation. Wish that I had a few more nights at his place! Paul's apartment is beautiful, clean, and comfortable. Conveniently located a short couple blocks from the subway, it makes it super easy to get to Manhattan. I highly recommend it!"