

Imports

```
In [502]: import pandas as pd  
          from pandas import DataFrame, Series  
          import json
```

Loading json file

```
In [503]: list_of_issues_dict_data = [json.loads(line) for line in open('SPM587SP18issue  
          s.json')]
```

```
In [504]: issues_df = DataFrame(list_of_issues_dict_data)
```

Converting the dataframe object into json records

```
In [505]: s = issues_df.to_json(orient='records')
```

Loading the json records into variable

```
In [506]: cont = json.loads(s)
```

Importing Elasticsearch and helpers of elastic search

```
In [507]: from elasticsearch import Elasticsearch, helpers
```

```
In [508]: es = Elasticsearch()
```

Inserting the data into Elastic Search (Bulk Insertion)

```
In [509]: actions =[]
for data in cont:
    y=data['labels']
    dd = dict()
    for x in y:
        splt = x.split(':')
        l=len(splt)
        if l == 2:
            dd.update({splt[0]:splt[1]})
    data['Longitude'] = str(dd.get('Longitude'))
    data['Latitude'] = str(dd.get('Latitude'))
    action = {
        "_index": "issues",
        "_type": "issue",
        "_id" : data['issue_number'],
        "_source": data
    }

    actions.append(action)
    helpers.bulk(es,actions)
```

```
In [510]: pooja = cont[0]
print(pooja['labels'])
dd = {k:v for k,v in (x.split(':') for x in pooja['labels']) }

['Category:Inquiry', 'DetectionPhase:Field', 'OriginationPhase:Coding', 'Priority:High', 'Status:InProgress']
```

```
In [511]: dd['Category']
```

```
Out[511]: 'Inquiry'
```

Qurey to fetch all the data from elastic Search

```
In [512]: doc = {
    'size' : 270,
    'query':{
        'match_all':{}
    }
}
result_without_condition=es.search(index='issues',body=doc, scroll = "1h")
```

```
In [513]: len(doc)
          result_without_condition
```

```

Out[513]: {'_scroll_id': 'DnF1ZXJ5VGhlbkZldGNoBQAAAAAAAAADiFlZwYWNVc0FfUnhDZy0tVnNIbX
VFZ2cAAAAA4xZWcGFjVXNBX1J4Q2ctLVZzSG11RwdnAAAAAAAAAQWVnBhY1VzQV9SeENn
LS1Wc0htdUVnZwAAAAAADlFlZwYWNVc0FfUnhDZy0tVnNIbXVFZ2cAAAAA5hZWcGFjVX
NBX1J4Q2ctLVZzSG11Rwdn',
'_shards': {'failed': 0, 'skipped': 0, 'successful': 5, 'total': 5},
'hits': {'hits': [{'_id': '24',
  '_index': 'issues',
  '_score': 1.0,
  '_source': {'Author': 'HSP18SCM69D',
    'Latitude': '41.891551',
    'Longitude': '-87.607375',
    'State': 'open',
    'closed_at': None,
    'created_at': '2018-04-09',
    'issue_number': 24,
    'labels': ['Address:600 E GRAND AVE',
      'Category:Inquiry',
      'DetectionPhase:Coding',
      'Latitude:41.891551',
      'Longitude:-87.607375',
      'OriginationPhase:Documentation',
      'Priority:Major',
      'Status:pendingReview']},
    '_type': 'issue'},
  {'_id': '22',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'HSP18SCM69D',
      'Latitude': '40.170101',
      'Longitude': '-92.177847',
      'State': 'open',
      'closed_at': None,
      'created_at': '2018-04-09',
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      'labels': ['Address:233 W JACKSON',
        'Category:Bug',
        'DetectionPhase:Field',
        'Latitude:40.170101',
        'Longitude:-92.177847',
        'OriginationPhase:Coding',
        'Priority:High',
        'Status:Completed']},
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  {'_id': '19',
    '_index': 'issues',
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    '_source': {'Author': 'HSP18SCM69D',
      'Latitude': '41.883772',
      'Longitude': '-87.625962',
      'State': 'open',
      'closed_at': None,
      'created_at': '2018-04-09',
      'issue_number': 19,
      'labels': ['Address:119 NORTH WABASH',
        'Category:Bug',
        'DetectionPhase:Testing',
        'Latitude:41.883772',

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      'Longitude:-87.625962',
      'OriginationPhase:Field',
      'Priority:Major',
      'Status:pendingReview']]],
    '_type': 'issue'},
  {'_id': '14',
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                'Latitude': '41.917164',
                'Longitude': '-87.686965',
                'State': 'open',
                'closed_at': None,
                'created_at': '2018-04-09',
                'issue_number': 14,
                'labels': ['Address:1951 N WESTERN AVE',
                           'Category:Bug',
                           'DetectionPhase:Coding',
                           'Latitude:41.917164',
                           'Longitude:-87.686965',
                           'OriginationPhase:Documentation',
                           'Priority:Low',
                           'Status:pendingReview']]],
   '_type': 'issue'},
  {'_id': '470',
   '_index': 'issues',
   '_score': 1.0,
   '_source': {'Author': 'RSP18SCM19N',
                'Latitude': 'None',
                'Longitude': 'None',
                'State': 'closed',
                'closed_at': '2018-04-14',
                'created_at': '2018-04-14',
                'issue_number': 470,
                'labels': ['Category:Enhancement',
                           'DetectionPhase:Testing',
                           'OriginationPhase:Design',
                           'Priority:Major',
                           'Status:Completed']]],
   '_type': 'issue'},
  {'_id': '452',
   '_index': 'issues',
   '_score': 1.0,
   '_source': {'Author': 'YSP18SCM40K',
                'Latitude': '41.878693',
                'Longitude': '-87.638924',
                'State': 'closed',
                'closed_at': '2018-04-13',
                'created_at': '2018-04-13',
                'issue_number': 452,
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                           'Category:Bug',
                           'DetectionPhase:Design',
                           'Latitude:41.878693',
                           'Longitude:-87.638924',
                           'OriginationPhase:Requirements',
                           'Priority:Medium',

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      'Status:Approved']},
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  {'_id': '449',
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    '_score': 1.0,
    '_source': {'Author': 'ZSP18SCM44L',
      'Latitude': 'None',
      'Longitude': 'None',
      'State': 'closed',
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      'created_at': '2018-04-13',
      'issue_number': 449,
      'labels': ['Category:Inquiry',
        'DetectionPhase:Field',
        'OriginationPhase:Field',
        'Priority:Medium',
        'Status:InProgress']},
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  {'_id': '415',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'NSP18SCM35K',
      'Latitude': 'None',
      'Longitude': 'None',
      'State': 'closed',
      'closed_at': '2018-04-13',
      'created_at': '2018-04-13',
      'issue_number': 415,
      'labels': ['Category:Enhancement',
        'DetectionPhase:Testing',
        'OriginationPhase:Design',
        'Priority:Critical',
        'Status:Approved']},
    '_type': 'issue'},
  {'_id': '400',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'GSP18SCM22M',
      'Latitude': 'None',
      'Longitude': 'None',
      'State': 'closed',
      'closed_at': '2018-04-13',
      'created_at': '2018-04-13',
      'issue_number': 400,
      'labels': ['Category:Inquiry',
        'DetectionPhase:Field',
        'OriginationPhase:Coding',
        'Priority:High',
        'Status:InProgress']},
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  {'_id': '397',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'SSP18SCM01V',
      'Latitude': 'None',
      'Longitude': 'None',
      'State': 'closed',

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      'closed_at': '2018-04-13',
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      'issue_number': 397,
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        'OriginationPhase:Coding',
        'Priority:Medium',
        'Status:pendingReview']},
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  { '_id': '387',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'JSP18SCM54B',
      'Latitude': 'None',
      'Longitude': 'None',
      'State': 'closed',
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      'created_at': '2018-04-13',
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        'Priority:High',
        'Status:pendingReview']},
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      'Latitude': 'None',
      'Longitude': 'None',
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      'issue_number': 374,
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        'OriginationPhase:Coding',
        'Priority:High',
        'Status:pendingReview']},
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      'Latitude': 'None',
      'Longitude': 'None',
      'State': 'closed',
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      'issue_number': 372,
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        'OriginationPhase:Coding',
        'Priority:High',
        'Status:inProgress']},
    '_type': 'issue'},

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{ '_id': '366',  
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  '_source': { 'Author': 'CSP18SCM33S',  
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    'Longitude': 'None',  
    'State': 'closed',  
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    'created_at': '2018-04-13',  
    'issue_number': 366,  
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      'OriginationPhase:Requirements',  
      'Priority:Critical',  
      'Status:Approved' ] },  
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  '_source': { 'Author': 'MSP18SCM38Y',  
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    'Longitude': 'None',  
    'State': 'closed',  
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    'created_at': '2018-04-12',  
    'issue_number': 356,  
    'labels': [ 'Category:Inquiry',  
      'DetectionPhase:Field',  
      'OriginationPhase:Coding',  
      'Priority:High',  
      'Status:InProgress' ] },  
  '_type': 'issue' },  
{ '_id': '338',  
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  '_score': 1.0,  
  '_source': { 'Author': 'CSP18SCM41G',  
    'Latitude': 'None',  
    'Longitude': 'None',  
    'State': 'closed',  
    'closed_at': '2018-04-13',  
    'created_at': '2018-04-12',  
    'issue_number': 338,  
    'labels': [ 'Category:Bug',  
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      'OriginationPhase:Design',  
      'Priority:Critical',  
      'Status:Approved' ] },  
  '_type': 'issue' },  
{ '_id': '313',  
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  '_score': 1.0,  
  '_source': { 'Author': 'YSP18SCM92Z',  
    'Latitude': 'None',  
    'Longitude': 'None',  
    'State': 'closed',  
    'closed_at': '2018-04-12',  
    'created_at': '2018-04-12',
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      'issue_number': 313,
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        'DetectionPhase:Field',
        'OriginationPhase:Coding',
        'Priority:High',
        'Status:InProgress']},
    '_type': 'issue'},
  {'_id': '302',
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    '_score': 1.0,
    '_source': {'Author': 'MSP18SCM51G',
      'Latitude': 'None',
      'Longitude': 'None',
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      'labels': ['Category:Bug',
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        'OriginationPhase:Design',
        'Priority:Critical',
        'Status:Approved']},
    '_type': 'issue'},
  {'_id': '300',
    '_index': 'issues',
    '_score': 1.0,
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      'Latitude': '41.838897',
      'Longitude': '-87.646804',
      'State': 'closed',
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      'created_at': '2018-04-12',
      'issue_number': 300,
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        'Category:Bug',
        'DetectionPhase:Design',
        'Latitude:41.838897',
        'Longitude:-87.646804',
        'OriginationPhase:Design',
        'Priority:Medium',
        'Status:Approved']},
    '_type': 'issue'},
  {'_id': '264',
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    '_score': 1.0,
    '_source': {'Author': 'HSP18SCM50W',
      'Latitude': 'None',
      'Longitude': 'None',
      'State': 'closed',
      'closed_at': '2018-04-16',
      'created_at': '2018-04-11',
      'issue_number': 264,
      'labels': []},
    '_type': 'issue'},
  {'_id': '229',
    '_index': 'issues',
    '_score': 1.0,

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    '_source': {'Author': 'BSP18SCM69R',
    'Latitude': '41.858415',
    'Longitude': '-87.660926',
    'State': 'closed',
    'closed_at': '2018-04-11',
    'created_at': '2018-04-11',
    'issue_number': 229,
    'labels': ['Address:1664 S Blue Island Ave Chicago IL 60608',
    'Category:Bug',
    'DetectionPhase:Design',
    'Latitude:41.858415',
    'Longitude:-87.660926',
    'OriginationPhase:Requirements',
    'Priority:Critical',
    'Status:pendingReview']},
    '_type': 'issue'},
  {'_id': '222',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'LSP18SCM07H',
    'Latitude': '41.893020',
    'Longitude': '-87.631556',
    'State': 'closed',
    'closed_at': '2018-04-12',
    'created_at': '2018-04-11',
    'issue_number': 222,
    'labels': ['Address:600 N Clark St Chicago IL 60610',
    'Category:Bug',
    'DetectionPhase:Design',
    'Latitude:41.893020',
    'Longitude:-87.631556',
    'OriginationPhase:Requirements',
    'Priority:Critical',
    'Status:Approved']},
    '_type': 'issue'},
  {'_id': '206',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'ASP18SCM75T',
    'Latitude': '41.878693',
    'Longitude': '-87.638924',
    'State': 'closed',
    'closed_at': '2018-04-11',
    'created_at': '2018-04-11',
    'issue_number': 206,
    'labels': ['Address:225 S Canal St Chicago IL 60606',
    'Category:Bug',
    'Latitude:41.878693',
    'Longitude:-87.638924',
    'OriginationPhase:Requirements',
    'Priority:Critical',
    'Status:Approved']},
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  {'_id': '190',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'SSP18SCM19P',

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'Latitude': '41.847095',
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'Category:Bug',
'DetectionPhase:Design',
'Latitude:41.847095',
'Longitude:-87.616767',
'OriginationPhase:Requirements',
'Priority:Critical',
'Status:pendingReview']},
'_type': 'issue'},
{'_id': '183',
'_index': 'issues',
'_score': 1.0,
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'Latitude': '41.847095',
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'State': 'closed',
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'created_at': '2018-04-11',
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'Category:Bug',
'DetectionPhase:Design',
'Latitude:41.847095',
'Longitude:-87.616767',
'OriginationPhase:Design',
'Priority:Critical',
'Status:Approved']},
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'created_at': '2018-04-11',
'issue_number': 172,
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'Category:Bug',
'DetectionPhase:Design',
'Latitude:41.847095',
'Longitude:-87.616767',
'OriginationPhase:Requirements',
'Priority:Critical',
'Status:pendingReview']},
'_type': 'issue'},
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'Latitude': '41.877817',
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'Category:Bug',
'DetectionPhase:Design',
'Latitude:41.877817',
'Longitude:-87.631247',
'OriginationPhase:Design',
'Priority:Medium',
'Status:Approved']},
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{'_id': '120',
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'_source': {'Author': 'JSP18SCM63X',
'Latitude': '41.893230',
'Longitude': '-87.617419',
'State': 'closed',
'closed_at': '2018-04-11',
'created_at': '2018-04-10',
'issue_number': 120,
'labels': ['Address:645 N MCCLURG CT',
'Category:Bug',
'DetectionPhase:Design',
'Latitude:41.893230',
'Longitude:-87.617419',
'OriginationPhase:Requirements',
'Priority:Medium',
'Status:Approved']},
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'_source': {'Author': 'MSP18SCM10S',
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'Longitude': '-87.616767',
'State': 'closed',
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'created_at': '2018-04-10',
'issue_number': 116,
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'Category:Bug',
'DetectionPhase:Design',
'Latitude:41.847095',
'Longitude:-87.616767',
'OriginationPhase:Design',
'Priority:Medium',
'Status:InProgress']},
'_type': 'issue'},
{'_id': '108',
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'_source': {'Author': 'SSP18SCM15B',

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'Latitude': '41.877846',
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'Category:Bug',
'DetectionPhase:Design',
'Latitude:41.877846',
'Longitude:-87.631296',
'OriginationPhase:Design',
'Priority:Critical',
'Status:Approved']},
'_type': 'issue'},
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'_index': 'issues',
'_score': 1.0,
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'Latitude': '41.838897',
'Longitude': '-87.646804',
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'Category:Bug',
'DetectionPhase:Design',
'Latitude:41.838897',
'Longitude:-87.646804',
'OriginationPhase:Requirements',
'Priority:Critical',
'Status:InProgress']},
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'created_at': '2018-04-10',
'issue_number': 99,
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'Category:Bug',
'DetectionPhase:Design',
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'Longitude:-87.646804',
'OriginationPhase:Requirements',
'Priority:Medium',
'Status:InProgress']},
'_type': 'issue'},
{'_id': '84',
'_index': 'issues',
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 'Latitude': '41.847095',
 'Longitude': '-87.616767',
 'State': 'closed',
 'closed_at': '2018-04-11',
 'created_at': '2018-04-10',
 'issue_number': 79,
 'labels': ['Address:2525 S Martin Luther King Dr',
 'Category:Bug',
 'DetectionPhase:Design',
 'Latitude:41.847095',
 'Longitude:-87.616767',
 'OriginationPhase:Requirements',
 'Priority:Medium',
 'Status:InProgress']},
 '_type': 'issue'},
{'_id': '73',
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 '_source': {'Author': 'SSP18SCM67M',
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 'Longitude': '-87.631296',
 'State': 'open',
 'closed_at': None,
 'created_at': '2018-04-10',
 'issue_number': 73,
 'labels': ['Address:111 W JACKSON',
 'Category:Bug',
 'DetectionPhase:Design',
 'Latitude:41.877846',
 'Longitude:-87.631296',
 'OriginationPhase:Design',
 'Priority:Critical',
 'Status:Approved',
 'longitude:87.631296']},
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 '_score': 1.0,
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 'Longitude': '-87.638924',
 'State': 'closed',
 'closed_at': '2018-04-10',
 'created_at': '2018-04-09',
 'issue_number': 60,

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'labels': ['Address:225 S Canal St',
'Category:Bug',
'DetectionPhase:Design',
'Latitude:41.878693',
'Longitude:-87.638924',
'OriginationPhase:Requirements',
'Priority:Critical',
'Status:pendingReview']]],
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'State': 'open',
'closed_at': None,
'created_at': '2018-04-09',
'issue_number': 52,
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'Category:Inquiry',
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    'Priority:Medium',
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 'Priority:Medium',
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 'Priority:Medium',
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 'Latitude:41.853136',
 'Longitude:-87.633160',
 'OriginationPhase:Design',
 'Priority:Critical',
 'Status:Approved']]],
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                           'Priority:Medium',
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 'Longitude:-87.631247',
 'OriginationPhase:Testing',
 'Priority:Critical',
 'Status:Approved']}},
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 'issue_number': 15,
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 'issue_number': 6,
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 'OriginationPhase:Coding',
 'Priority:Critical',
 'Status:Completed']}},
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 'Longitude:-87.630553',
 'OriginationPhase:Coding',
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 'Status:Approved']}},
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 'Longitude:-87.633160',
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 'Priority:High',
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 'Priority:High',
 'Status:pendingReview']}},
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'Priority:Critical',
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        'Status:InProgress']],
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    'Status:pendingReview']]],
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      'labels': ['Category:Inquiry',
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        'Priority:Low',
        'Status:inProgress']]],
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        'Priority:Critical',
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    'State': 'closed',
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    'created_at': '2018-04-12',
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    'Category:Bug',
    'DetectionPhase:Design',
    'Latitude:41.847441',
    'Longitude:-87.679408',
    'OriginationPhase:Design',
    'Status:Completed']]],
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    'issue_number': 301,
    'labels': ['Category:Inquiry',
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    'Priority:High',
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    'Latitude': '41.852623',
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    'State': 'open',
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        'OriginationPhase:Coding',
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'Status:Approved']},
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'Priority:Medium',
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 'Priority:Critical',
 'Status:pendingReview']],
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 'OriginationPhase:Requirements',
 'Priority:Critical',
 'Status:inProgress']},
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 'OriginationPhase:Requirements',
 'Priority:Medium',
 'Status:pendingReview']},
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'Priority:Critical',
'Status:inProgress']],
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'Priority:Critical',
'Status:inProgress']],
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        'Longitude:-87.616767',
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        'Priority:Critical',
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 'Priority:Critical',
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 'Priority:Major',
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                           'OriginationPhase:Documentation',
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        'OriginationPhase:Requirements',
        'Priority:Critical',
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      'Longitude': 'None',
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 'Priority:Major',
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 'Priority:Critical',
 'Status:Approved']},
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 'Priority:Critical',
 'Status:Approved']},
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'Latitude': 'None',
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'State': 'closed',
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'created_at': '2018-04-12',
'issue_number': 292,
'labels': ['Category:Inquiry',
'DetectionPhase:Field',
'OriginationPhase:Documentation',
'Priority:Medium',
'Status:InProgress']},
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'Category:Bug',
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'Latitude:41.852623',
'Longitude:-87.611958',
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'Priority:Medium',
'Status:Approved']},
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    'Longitude:-87.611958',
    'OriginationPhase:Requirements',
    'Priority:Medium',
    'Status:Approved']},
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    'Priority:Critical',
    'Status:Approved']},
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    'DetectionPhase:Design',
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    'Longitude:-87.631247',
    'OriginationPhase:Design',
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    '_source': {'Author': 'SSP18SCM68H',
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    'Longitude: -87.631556',
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    'Priority:Medium',
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    'Latitude:41.878693',
    'Longitude:-87.638924',
    'OriginationPhase:Requirements',
    'Priority:Medium',
    'Status:pendingReview']},
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    '_score': 1.0,
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    'issue_number': 124,

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      'created_at': '2018-04-10',
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        'Longitude:-87.611958',
        'OriginationPhase:Requirements',
        'Priority:Critical',
        'Status:Approved']},
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'Priority:Critical',
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'Category:Bug',
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'OriginationPhase:Requirements',
'Priority:Medium',
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    'State': 'open',
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    'OriginationPhase:Requirements',
    'Priority:Medium',
    'Status:Rejected']},
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    '_score': 1.0,
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    'created_at': '2018-04-09',
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    'Longitude:-87.617419',
    'OriginationPhase:Design',
    'Priority:Medium',
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    'Longitude:-87.617419',
    'OriginationPhase:Coding',
    'Priority:High',
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 'Priority:Critical',
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 'issue_number': 411,
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      'issue_number': 318,
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        'OriginationPhase:Requirements',
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  'issue_number': 291,
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  'Priority:Low',
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  'OriginationPhase:Testing',
  'Priority:Low',
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  '_score': 1.0,
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  'Latitude': ' 41.877846',
  'Longitude': '-87.631296',
  'State': 'closed',
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  'issue_number': 272,
  'labels': ['Address:111 W Jackson Blvd Chicago IL 60604',

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      'Category:Bug',
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      'Latitude: 41.877846',
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      'Priority:Medium',
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      'Longitude': 'None',
      'State': 'closed',
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        'DetectionPhase:Design',
        'OriginationPhase:Requirements',
        'Priority:Critical',
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        'longitude:-89.671152']}},
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      'Longitude': '-87.631247',
      'State': 'closed',
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      'created_at': '2018-04-11',
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        'Longitude:-87.631247',
        'OriginationPhase:Requirements',
        'Status:Approved']}},
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        'DetectionPhase:Design',
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        'Priority:Critical',
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    'Longitude': '-87.616767',
    'State': 'closed',
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    'created_at': '2018-04-11',
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      'Longitude:-87.616767',
      'OriginationPhase:Design',
      'Priority:Medium',
      'Status:Approved']]],
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    'State': 'closed',
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      'Priority:Medium',
      'Status:Approved']]],
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    'created_at': '2018-04-11',
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      'Longitude': -87.631247',
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      'State': 'closed',
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      'created_at': '2018-04-11',
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        'DetectionPhase:Design',
        'Latitude:41.877948',
        'Longitude:-87.634926',
        'OriginationPhase:Design',
        'Priority:Critical',
        'Status:Approved']]],
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      'State': 'closed',
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      'created_at': '2018-04-11',
      'issue_number': 196,
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        'DetectionPhase:Design',
        'Latitude: 41.847095',
        'Longitude:-87.616767',
        'OriginationPhase:Requirements',
        'Priority:Critical',
        'Status:Approved']]],
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      'Longitude': 'None',
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      'created_at': '2018-04-11',
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'Longitude:-87.616767',
'OriginationPhase:Design',
'Priority:Medium',
'Status:Approved']},
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'Longitude:-89.984333',
'OriginationPhase:Design',
'Priority:Medium',
'Status:pendingReview']},
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'Longitude:-87.625962',
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'Priority:Critical',
'Status:Approved']},
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'OriginationPhase:Requirements',
'Priority:Critical',
'Status:Approved']},
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'Priority:High',
'Status:InProgress']},
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'Latitude': 'None',
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        'OriginationPhase:Requirements',
        'Priority:Critical',
        'Status:InProgress']},
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        'Longitude:-87.631296',
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        'Priority:Critical',
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      'created_at': '2018-04-11',
      'issue_number': 156,
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        'Category:Bug',
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        'Longitude:-87.813483',
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                              'OriginationPhase:Requirements',
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                              'Status:InProgress']},
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                  'State': 'closed',
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                  'created_at': '2018-04-10',
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                              'Category:Bug',
                              'DetectionPhase:Design',
                              'Latitude:41.883772',
                              'Longitude:-87.625962',
                              'OriginationPhase:Design',

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      'Priority:Medium',
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                  'State': 'closed',
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                  'created_at': '2018-04-10',
                  'issue_number': 122,
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                              'Longitude:-87.631296',
                              'OriginationPhase:Design',
                              'Priority:Critical',
                              'Status:Approved']},
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                              'DetectionPhase:Design',
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                              'Longitude: -87.837132',
                              'OriginationPhase:Design',
                              'Priority:Medium',
                              'Status:Approved']},
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                              'DetectionPhase:Design',
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                              'Longitude:-87.616767',
                              'OriginationPhase:Design',

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      'Priority:Medium',
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      'created_at': '2018-04-10',
      'issue_number': 76,
      'labels': []},
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  {'_id': '75',
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    '_score': 1.0,
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      'Longitude': '-87.611958',
      'State': 'closed',
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      'created_at': '2018-04-10',
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        'Category:Bug',
        'DetectionPhase:Design',
        'Latitude:41.852623',
        'Longitude:-87.611958',
        'OriginationPhase:Requirements',
        'Priority:Medium',
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 'created_at': '2018-04-10',
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 'Longitude:-87.631247',
 'OriginationPhase:Requirements',
 'Priority:Critical',
 'Status:Approved']},
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 'Latitude': 'None',
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 'State': 'closed',
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 'created_at': '2018-04-10',
 'issue_number': 63,
 'labels': []},
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 'Longitude:-87.611958',
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 'Priority:Medium',
 'Status:Approved']},
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 'State': 'closed',
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'Longitude:-87.664548',
'OriginationPhase:Design',
'Priority:Medium',
'Status:Approved']},
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'State': 'open',
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'created_at': '2018-04-09',
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'Longitude:-87.633160',
'OriginationPhase:Design',
'Priority:High',
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'Longitude:-92.177847',
'OriginationPhase:Testing',
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'Status:Completed']},
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'State': 'open',
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    'Longitude:-87.617419',
    'OriginationPhase:Field',
    'Priority:Major',
    'Status:pendingReview']},
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    'Longitude': '-87.630553',
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    'Longitude:-87.630553',
    'OriginationPhase:Documentation',
    'Priority:Major',
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    'created_at': '2018-04-09',
    'issue_number': 37,
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    'Longitude:-92.177847',
    'OriginationPhase:Field',
    'Priority:High',
    'Status:Completed']},
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    '_source': {'Author': 'HSP18SCM69D',
    'Latitude': '41.883772',
    'Longitude': '-87.625962',
    'State': 'open',
    'closed_at': None,

```

```

    'created_at': '2018-04-09',
    'issue_number': 31,
    'labels': ['Address:119 NORTH WABASH',
    'Category:Bug',
    'DetectionPhase:Design',
    'Latitude:41.883772',
    'Longitude:-87.625962',
    'OriginationPhase:Field',
    'Priority:Low',
    'Status:inProgress']},
    '_type': 'issue'},
  {'_id': '23',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'HSP18SCM69D',
    'Latitude': '41.883772',
    'Longitude': '-87.625962',
    'State': 'open',
    'closed_at': None,
    'created_at': '2018-04-09',
    'issue_number': 23,
    'labels': ['Address:119 NORTH WABASH',
    'Category:Enhancement',
    'DetectionPhase:Testing',
    'Latitude:41.883772',
    'Longitude:-87.625962',
    'OriginationPhase:Design',
    'Priority:Low',
    'Status:inProgress']},
    '_type': 'issue'},
  {'_id': '17',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'HSP18SCM69D',
    'Latitude': '41.880982',
    'Longitude': '-87.630553',
    'State': 'open',
    'closed_at': None,
    'created_at': '2018-04-09',
    'issue_number': 17,
    'labels': ['Address:23 S CLARK',
    'Category:Enhancement',
    'DetectionPhase:Design',
    'Latitude:41.880982',
    'Longitude:-87.630553',
    'OriginationPhase:Design',
    'Priority:High',
    'Status:Completed']},
    '_type': 'issue'},
  {'_id': '11',
    '_index': 'issues',
    '_score': 1.0,
    '_source': {'Author': 'HSP18SCM69D',
    'Latitude': '41.891551',
    'Longitude': '-87.607375',
    'State': 'open',
    'closed_at': None,

```



```

'created_at': '2018-04-09',
'issue_number': 11,
'labels': ['Address:600 E GRAND AVE',
'Category:Bug',
'DetectionPhase:Testing',
'Latitude:41.891551',
'Longitude:-87.607375',
'OriginationPhase:Testing',
'Priority:Critical',
'Status:Approved']},
'_type': 'issue']},
'max_score': 1.0,
'total': 255},
'timed_out': False,
'took': 13}

```

```

In [514]: sid = result_without_condition['_scroll_id']
scroll_size = result_without_condition['hits']['total']
scroll_size

```

Out[514]: 255

```

In [515]: print (sid)
print (scroll_size)

```

```

DnF1ZXJ5VGhlbkZldGNoBQAAAAAAAAADiFlZwYWNVc0FfUnhDZy0tVnNiXVZFZ2cAAAAAAAAA4xZWc
GFjVXNBX1J4Q2ctLVZzSG11RwdnAAAAAAAAAQWVnBhY1VzQV9SeENnLS1Wc0htdUVnZwAAAAAAAA
DlFlZwYWNVc0FfUnhDZy0tVnNiXVZFZ2cAAAAAAAAA5hZWcGFjVXNBX1J4Q2ctLVZzSG11Rwdn
255

```

Populating the data into local variable

```

In [516]: final_location_ll = []
while(scroll_size > 0):

    for doc in result_without_condition['hits']['hits']:
        erating each results of the qurey
        location_ll = []
        results = doc['_source']['labels']
        for x in results:
            rr1 = x.split(':')
            if rr1[0]== "Latitude":
                lat_val = float(rr1[1])
                location_ll.append(lat_val )
            if rr1[0]== "Longitude":
                lon_val = float(rr1[1])
                location_ll.append(lon_val )
        if (len(location_ll)==2):
            final_location_ll.append(location_ll)

            #Appending Latitude and Longitude into the List

    result_without_condition = es.scroll(scroll_id = sid, scroll = '2m')
    sid = result_without_condition['_scroll_id']
    #Changing the scroll-id
    scroll_size = len(result_without_condition['hits']['hits'])
final_location_ll

```

```
Out[516]: [[41.891551, -87.607375],
[40.170101, -92.177847],
[41.883772, -87.625962],
[41.917164, -87.686965],
[41.878693, -87.638924],
[41.838897, -87.646804],
[41.858415, -87.660926],
[41.89302, -87.631556],
[41.878693, -87.638924],
[41.847095, -87.616767],
[41.847095, -87.616767],
[41.847095, -87.616767],
[41.877817, -87.631247],
[41.89323, -87.617419],
[41.847095, -87.616767],
[41.877846, -87.631296],
[41.838897, -87.646804],
[41.838897, -87.646804],
[41.847095, -87.616767],
[41.877846, -87.631296],
[41.878693, -87.638924],
[41.89323, -87.617419],
[41.883772, -87.625962],
[41.917164, -87.686965],
[41.883772, -87.625962],
[41.917164, -87.686965],
[41.880982, -87.630553],
[41.917164, -87.686965],
[41.89323, -87.617419],
[40.170101, -92.177847],
[41.883772, -87.625962],
[41.883772, -87.625962],
[41.880982, -87.630553],
[41.847095, -87.616767],
[41.838897, -87.646804],
[41.89302, -87.631556],
[41.847095, -87.616767],
[41.809739, -87.607105],
[41.847441, -87.679408],
[41.847095, -87.617419],
[41.847095, -87.616767],
[41.89302, -87.631556],
[41.847095, -87.616767],
[41.877817, -87.631247],
[41.877846, -87.631296],
[41.951072, -88.119872],
[41.89302, -87.631556],
[41.853136, -87.63316],
[41.891551, -87.607375],
[41.880982, -87.630553],
[41.883772, -87.625962],
[40.170101, -92.177847],
[41.877817, -87.631247],
[41.877817, -87.631247],
[41.853136, -87.63316],
[41.877817, -87.631247],
[41.880982, -87.630553],
```

```
[41.853136, -87.63316],  
[41.847441, -87.679408],  
[41.852623, -87.611958],  
[41.847095, -87.616767],  
[41.877817, -87.631247],  
[41.89302, -87.631556],  
[41.877846, -87.631296],  
[41.879094, -87.813483],  
[42.004828, -87.67314],  
[41.858415, -87.67314],  
[42.004828, -87.67314],  
[41.858415, -87.660926],  
[41.89302, -87.631556],  
[41.89302, -87.631556],  
[41.838897, -87.646804],  
[41.847095, -87.616767],  
[41.853136, -87.63316],  
[41.917164, -87.686965],  
[41.891551, -87.607375],  
[41.883772, -87.625962],  
[41.877817, -87.631247],  
[41.89323, -87.617419],  
[41.883772, -87.625962],  
[41.877817, -87.631247],  
[41.925573, -87.649249],  
[41.852623, -87.611958],  
[41.852623, -87.611958],  
[41.847095, -87.616767],  
[41.877817, -87.631247],  
[41.89302, -87.631556],  
[41.878693, -87.638924],  
[41.878693, -87.638924],  
[41.852623, -87.611958],  
[41.877817, -87.631247],  
[41.879094, -87.813483],  
[41.877817, -87.631247],  
[38.591142, -89.984312],  
[41.852623, -87.611958],  
[41.891551, -87.607375],  
[41.877817, -87.631247],  
[41.89323, -87.617419],  
[41.917164, -87.686965],  
[41.877817, -87.631247],  
[41.880982, -87.630553],  
[41.89323, -87.617419],  
[41.853136, -87.63316],  
[41.852623, -87.611958],  
[41.877846, -87.631296],  
[41.877817, -87.631247],  
[41.847095, -87.616767],  
[41.809739, -87.607375],  
[41.847441, -87.631247],  
[41.877948, -87.634926],  
[41.847095, -87.616767],  
[41.847095, -87.616767],  
[38.542048, -89.984333],  
[41.883772, -87.625962],
```

```
[41.847095, -87.616767],  
[41.847095, -87.616767],  
[41.877846, -87.631296],  
[41.879094, -87.813483],  
[41.847095, -87.616767],  
[41.847095, -87.616767],  
[41.883772, -87.625962],  
[41.877846, -87.631296],  
[41.96245, -87.837132],  
[41.847095, -87.616767],  
[41.852623, -87.611958],  
[41.877817, -87.631247],  
[41.852623, -87.611958],  
[41.777989, -87.664548],  
[41.853136, -87.63316],  
[40.170101, -92.177847],  
[41.89323, -87.617419],  
[41.880982, -87.630553],  
[40.170101, -92.177847],  
[41.883772, -87.625962],  
[41.883772, -87.625962],  
[41.880982, -87.630553],  
[41.891551, -87.607375]]
```

```
In [517]: print ("Filtered records for all match : ", len(final_location_ll))
```

```
Filtered records for all match :    137
```

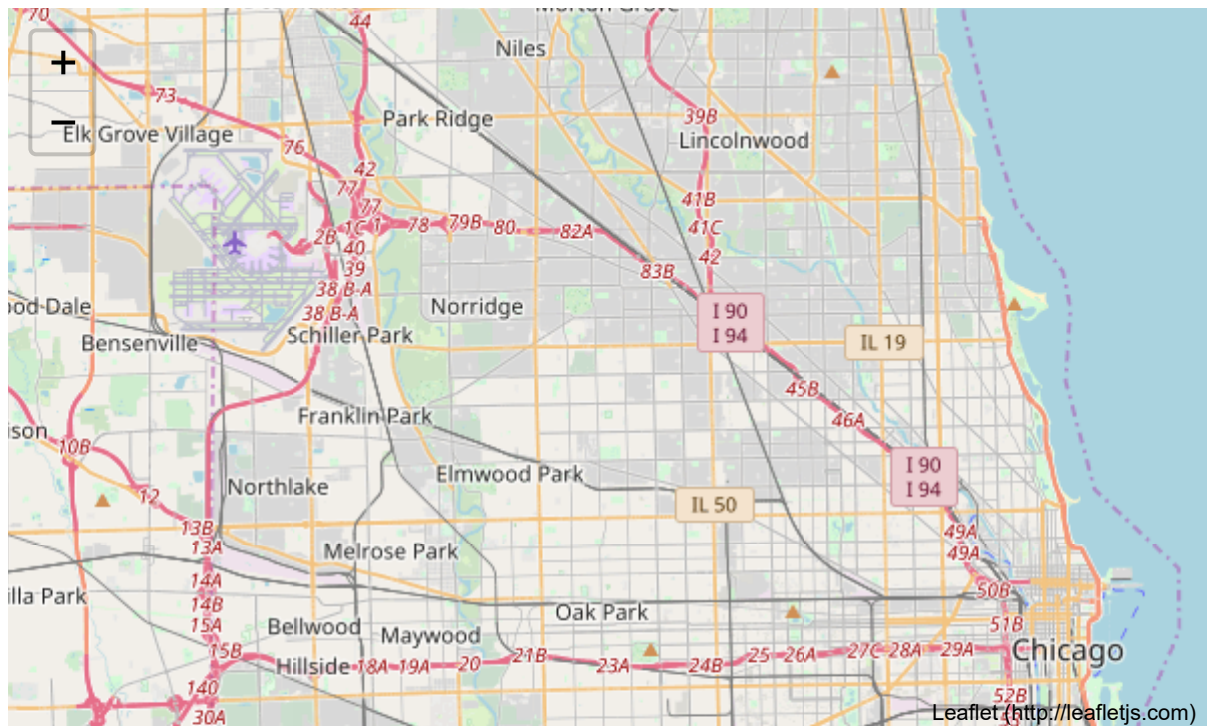
```
In [518]: import folium  
from folium import plugins  
print(folium.__version__)
```

```
0.5.0
```

```
In [519]: without_condition_heatmap = folium.Map([41.90293279, -87.70769386],
          zoom_start=11)
print(without_condition_heatmap)
without_condition_heatmap
```

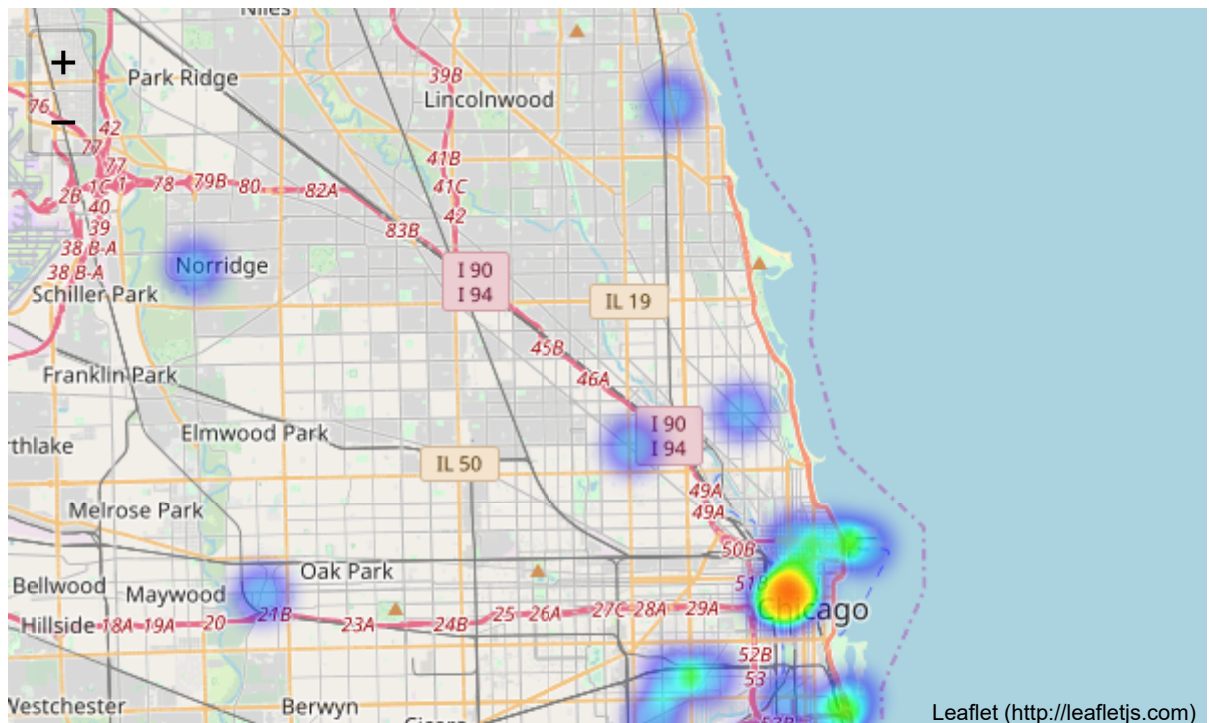
<folium.folium.Map object at 0x0000020D23CD0780>

Out[519]:



```
In [520]: without_condition_heatmap.add_child(plugins.HeatMap(final_location_11[:40000],
          radius=15))
without_condition_heatmap
```

Out[520]:



Query 1 for DetectionPhase is Field AND Priority is Critical

```
In [521]: doc1 = {  
    'size' : 10000,  
    'query':{  
        'bool':{  
            'must' : [{ 'match': {'labels': 'DetectionPhase:Field'} }, { 'match': {'labels': 'Priority:Critical'} } ]  
        }  
    }  
}  
result_with_condition=es.search(index='issues',body=doc1, scroll = "1h")  
  
len(result_with_condition)  
  
#print (result_with_condition)
```

Out[521]: 5

In [522]: `result_with_condition`


```

Out[522]: {'_scroll_id': 'DnF1ZXJ5VGhlbkZldGNoBQAAAAAAAAADnFlZwYWNVc0FfUnhDZy0tVnNIbX
VFZ2cAAAAA6BZWcGFjVXNBX1J4Q2ctLVZzSG11RwdnAAAAAAAAA0kVnBhY1VzQV9SeENn
LS1Wc0htdUVnZwAAAAAAdqFlZwYWNVc0FfUnhDZy0tVnNIbXVFZ2cAAAAA6xZWcGFjVX
NBX1J4Q2ctLVZzSG11Rwdn',
'_shards': {'failed': 0, 'skipped': 0, 'successful': 5, 'total': 5},
'hits': {'hits': [{'_id': '12',
  '_index': 'issues',
  '_score': 2.680638,
  '_source': {'Author': 'HSP18SCM69D',
    'Latitude': '41.893230',
    'Longitude': 'None',
    'State': 'open',
    'closed_at': None,
    'created_at': '2018-04-09',
    'issue_number': 12,
    'labels': ['Address:645 N MCCLURG CT',
      'Category:Inquiry',
      'DetectionPhase:Field',
      'Latitude:41.893230',
      'OriginationPhase:Coding',
      'Priority:Critical',
      'Status:Approved']},
    '_type': 'issue'},
  {'_id': '52',
    '_index': 'issues',
    '_score': 1.9169197,
    '_source': {'Author': 'HSP18SCM69D',
      'Latitude': '41.893230',
      'Longitude': '-87.617419',
      'State': 'open',
      'closed_at': None,
      'created_at': '2018-04-09',
      'issue_number': 52,
      'labels': ['Address:645 N MCCLURG CT',
        'Category:Inquiry',
        'DetectionPhase:Field',
        'Latitude:41.893230',
        'Longitude:-87.617419',
        'OriginationPhase:Field',
        'Priority:Critical',
        'Status:inProgress']},
      '_type': 'issue'},
  {'_id': '26',
    '_index': 'issues',
    '_score': 1.9169197,
    '_source': {'Author': 'HSP18SCM69D',
      'Latitude': '41.917164',
      'Longitude': '-87.686965',
      'State': 'open',
      'closed_at': None,
      'created_at': '2018-04-09',
      'issue_number': 26,
      'labels': ['Address:1951 N WESTERN AVE',
        'Category:Enhancement',
        'DetectionPhase:Field',
        'Latitude:41.917164',
        'Longitude:-87.686965',

```

```
'OriginationPhase:Requirements',
'Priority:Critical',
'Status:Approved']]],
'_type': 'issue'},
{'_id': '38',
 '_index': 'issues',
 '_score': 1.63692,
 '_source': {'Author': 'HSP18SCM69D',
 'Latitude': '41.891551',
 'Longitude': '-87.607375',
 'State': 'open',
 'closed_at': None,
 'created_at': '2018-04-09',
 'issue_number': 38,
 'labels': ['Address:600 E GRAND AVE',
 'Category:Enhancement',
 'DetectionPhase:Field',
 'Latitude:41.891551',
 'Longitude:-87.607375',
 'OriginationPhase:Documentation',
 'Priority:Critical',
 'Status:Approved']]],
 '_type': 'issue'}],
'max_score': 2.680638,
'total': 4},
'timed_out': False,
'took': 2}
```

```
In [523]: sid = result_with_condition['_scroll_id']
scroll_size = result_with_condition['hits']['total']
scroll_size
```

```
Out[523]: 4
```

Populating the data into local variable

```

In [524]: final_location_ll = []
          while(scroll_size > 0):

              for doc in result_with_condition['hits']['hits']:                #It
                  erating each results of the qurey
                  location_ll = []
                  results = doc['_source']['labels']
                  for x in results:
                      rr1 = x.split(':')
                      if rr1[0]== "Latitude":
                          lat_val = float(rr1[1])
                          location_ll.append(lat_val )
                      if rr1[0]== "Longitude":
                          lon_val = float(rr1[1])
                          location_ll.append(lon_val )
                  if (len(location_ll)==2):
                      final_location_ll.append(location_ll)

                      #Appending Latitude and Longitude into the list

              result_with_condition = es.scroll(scroll_id = sid, scroll = '2m')
              sid = result_with_condition['_scroll_id']
              #Changing the scroll-id
              scroll_size = len(result_with_condition['hits']['hits'])
          final_location_ll

```

```

Out[524]: [[41.89323, -87.617419], [41.917164, -87.686965], [41.891551, -87.607375]]

```

```

In [525]: print ("Filtered records for query 1 : ", len(final_location_ll))

```

```

Filtered records for query 1 : 3

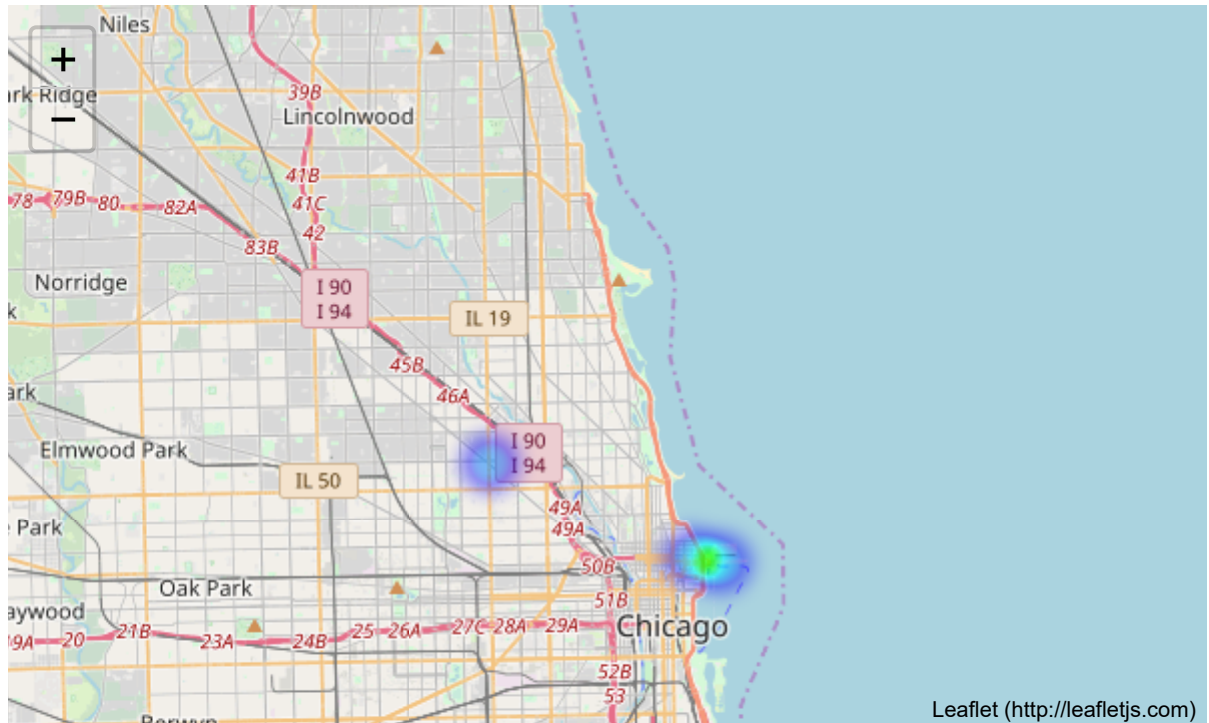
```

For generating HeatMap records fetched based on Query 1

```
In [526]: with_condition_heatmap = folium.Map([41.90293279, -87.70769386],
        zoom_start=11)

with_condition_heatmap.add_child(plugins.HeatMap(final_location_ll[:40000], radius=15))
with_condition_heatmap
```

Out[526]:



Query 2 for DetectionPhase is Field AND Status is Completed

```
In [527]: doc2 = {
    'size' : 10000,
    'query':{
        'bool':{
            'must' : [{ 'match': {'labels': 'DetectionPhase:Field'} }, { 'match': {'labels': 'Status:Completed'} } ]
        }
    }
}
result_with_condition_query2=es.search(index='issues',body=doc2, scroll = "1h")
```

```
In [528]: result_with_condition_query2
```

```

Out[528]: {'_scroll_id': 'DnF1ZXJ5VGhlbkZldGNoBQAAAAAAAAADsFlZwYWNVc0FfUnhDZy0tVnNIbX
VFZ2cAAAAA7RZwcGFjVXNBX1J4Q2ctLVZzSG11RwdnAAAAAAAAA04WVnBhY1VzQV9SeENn
LS1Wc0htdUVnZwAAAAAADwFlZwYWNVc0FfUnhDZy0tVnNIbXVFZ2cAAAAA7xZWcGFjVX
NBX1J4Q2ctLVZzSG11Rwdn',
'_shards': {'failed': 0, 'skipped': 0, 'successful': 5, 'total': 5},
'hits': {'hits': [{'_id': '22',
  '_index': 'issues',
  '_score': 4.4232726,
  '_source': {'Author': 'HSP18SCM69D',
    'Latitude': '40.170101',
    'Longitude': '-92.177847',
    'State': 'open',
    'closed_at': None,
    'created_at': '2018-04-09',
    'issue_number': 22,
    'labels': ['Address:233 W JACKSON',
      'Category:Bug',
      'DetectionPhase:Field',
      'Latitude:40.170101',
      'Longitude:-92.177847',
      'OriginationPhase:Coding',
      'Priority:High',
      'Status:Completed']},
  '_type': 'issue'},
  {'_id': '42',
    '_index': 'issues',
    '_score': 4.1702557,
    '_source': {'Author': 'HSP18SCM69D',
      'Latitude': '41.891551',
      'Longitude': '-87.607375',
      'State': 'open',
      'closed_at': None,
      'created_at': '2018-04-09',
      'issue_number': 42,
      'labels': ['Address:600 E GRAND AVE',
        'Category:Enhancement',
        'DetectionPhase:Field',
        'Latitude:41.891551',
        'Longitude:-87.607375',
        'OriginationPhase:Requirements',
        'Priority:High',
        'Status:Completed']},
      '_type': 'issue'},
    {'_id': '13',
      '_index': 'issues',
      '_score': 3.223109,
      '_source': {'Author': 'HSP18SCM69D',
        'Latitude': '41.893230',
        'Longitude': '-87.617419',
        'State': 'open',
        'closed_at': None,
        'created_at': '2018-04-09',
        'issue_number': 13,
        'labels': ['Address:645 N MCCLURG CT',
          'Category:Enhancement',
          'DetectionPhase:Field',
          'Latitude:41.893230',

```

```

        'Longitude:-87.617419',
        'OriginationPhase:Coding',
        'Priority:High',
        'Status:Completed']]],
    '_type': 'issue'},
    {'_id': '51',
     '_index': 'issues',
     '_score': 2.5170636,
     '_source': {'Author': 'HSP18SCM69D',
                  'Latitude': '41.853136',
                  'Longitude': '-87.633160',
                  'State': 'open',
                  'closed_at': None,
                  'created_at': '2018-04-09',
                  'issue_number': 51,
                  'labels': ['Address:2525 S Martin Luther King Drive',
                             'Category:Inquiry',
                             'DetectionPhase:Field',
                             'Latitude:41.853136',
                             'Longitude:-87.633160',
                             'OriginationPhase:Testing',
                             'Priority:High',
                             'Status:Completed']]],
     '_type': 'issue'}],
    'max_score': 4.4232726,
    'total': 4},
    'timed_out': False,
    'took': 2}

```

```

In [529]: sid = result_with_condition_query2['_scroll_id']
          scroll_size = result_with_condition_query2['hits']['total']
          scroll_size

```

Out[529]: 4

Populating the data into local variable

```

In [530]: final_location_ll = []
while(scroll_size > 0):

    for doc in result_with_condition_query2['hits']['hits']:
        #Iterating each results of the query
        location_ll = []
        results = doc['_source']['labels']
        for x in results:
            rr1 = x.split(':')
            if rr1[0]== "Latitude":
                lat_val = float(rr1[1])
                location_ll.append(lat_val )
            if rr1[0]== "Longitude":
                lon_val = float(rr1[1])
                location_ll.append(lon_val )
        if (len(location_ll)==2):
            final_location_ll.append(location_ll)

            #Appending Latitude and Longitude into the list

    result_with_condition_query2 = es.scroll(scroll_id = sid, scroll = '2m'
)
    sid = result_with_condition_query2['_scroll_id']
    #Changing the scroll-id
    scroll_size = len(result_with_condition_query2['hits']['hits'])
final_location_ll

```

```

Out[530]: [[40.170101, -92.177847],
           [41.891551, -87.607375],
           [41.89323, -87.617419],
           [41.853136, -87.63316]]

```

```

In [531]: print ("Filtered records for query 2 : ", len(final_location_ll))

Filtered records for query 2 : 4

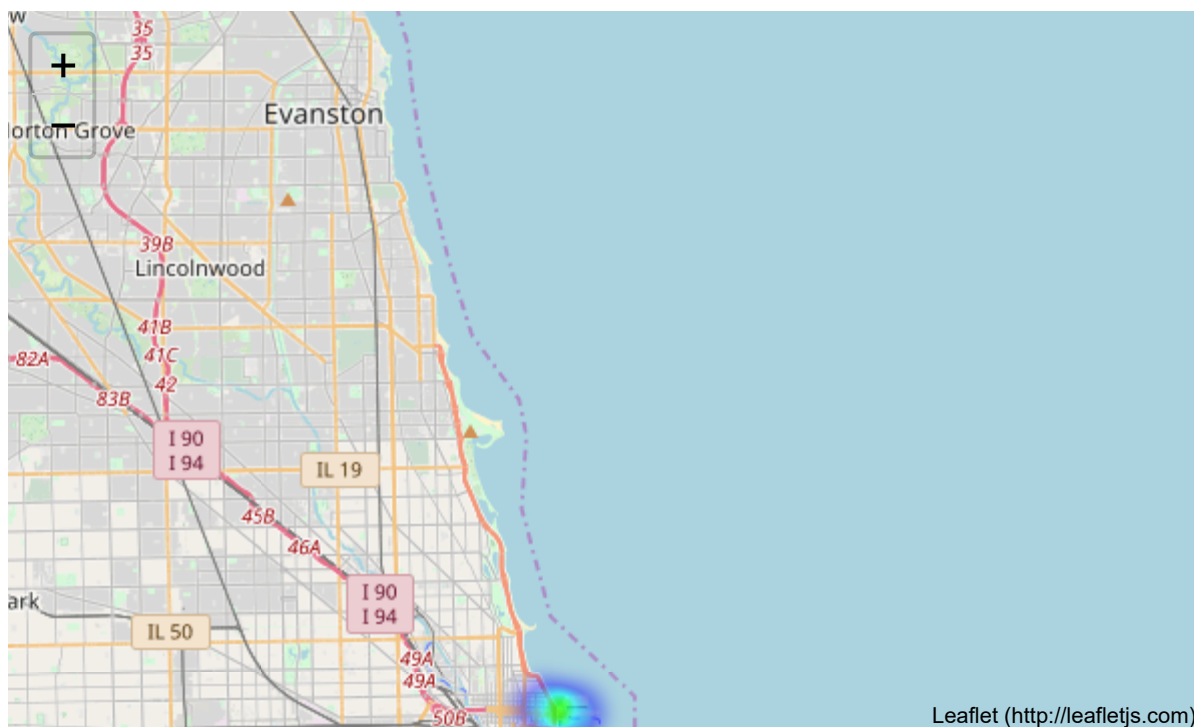
```

For generating HeatMap records fetched based on Query 2


```
In [532]: with_condition_heatmap_query2 = folium.Map([41.90293279, -87.70769386],
              zoom_start=11)

with_condition_heatmap_query2.add_child(plugins.HeatMap(final_location_11[:400
00], radius=15))
with_condition_heatmap_query2
```

Out[532]:



Query 3 for DetectionPhase is Field AND Priority is Critical AND Status is Approved

```
In [533]: doc3 = {
              'size' : 10000,
              'query':{
                  'bool':{
                      'must' : [{ 'match': {'labels': 'DetectionPhase:Field'} }, { 'match': {'labels': 'Priority:Critical'} },
                                { 'match': {'labels': 'Status:Approved'} }
                  ]
              }
            }
result_with_condition_query3=es.search(index='issues',body=doc3, scroll = "1h"
)
```

In [534]: `result_with_condition_query3`

```

Out[534]: {'_scroll_id': 'DnF1ZXJ5VGhlbkZldGNoBQAAAAAAAAADxFlZwYWNVc0FfUnhDZy0tVnNIbX
VFZ2cAAAAA8hZWcGFjVXNBX1J4Q2ctLVZzSG11RwdnAAAAAAAAAPMWVnBhY1VzQV9SeENn
LS1Wc0htdUVnZwAAAAAAD1FlZwYWNVc0FfUnhDZy0tVnNIbXVFZ2cAAAAA9BZWcGFjVX
NBX1J4Q2ctLVZzSG11Rwdn',
'_shards': {'failed': 0, 'skipped': 0, 'successful': 5, 'total': 5},
'hits': {'hits': [{'_id': '12',
  '_index': 'issues',
  '_score': 3.1718001,
  '_source': {'Author': 'HSP18SCM69D',
    'Latitude': '41.893230',
    'Longitude': 'None',
    'State': 'open',
    'closed_at': None,
    'created_at': '2018-04-09',
    'issue_number': 12,
    'labels': ['Address:645 N MCCLURG CT',
      'Category:Inquiry',
      'DetectionPhase:Field',
      'Latitude:41.893230',
      'OriginationPhase:Coding',
      'Priority:Critical',
      'Status:Approved']},
    '_type': 'issue'},
  {'_id': '26',
    '_index': 'issues',
    '_score': 2.7237563,
    '_source': {'Author': 'HSP18SCM69D',
      'Latitude': '41.917164',
      'Longitude': '-87.686965',
      'State': 'open',
      'closed_at': None,
      'created_at': '2018-04-09',
      'issue_number': 26,
      'labels': ['Address:1951 N WESTERN AVE',
        'Category:Enhancement',
        'DetectionPhase:Field',
        'Latitude:41.917164',
        'Longitude:-87.686965',
        'OriginationPhase:Requirements',
        'Priority:Critical',
        'Status:Approved']},
      '_type': 'issue'},
  {'_id': '38',
    '_index': 'issues',
    '_score': 2.4814277,
    '_source': {'Author': 'HSP18SCM69D',
      'Latitude': '41.891551',
      'Longitude': '-87.607375',
      'State': 'open',
      'closed_at': None,
      'created_at': '2018-04-09',
      'issue_number': 38,
      'labels': ['Address:600 E GRAND AVE',
        'Category:Enhancement',
        'DetectionPhase:Field',
        'Latitude:41.891551',
        'Longitude:-87.607375',

```

```

        'OriginationPhase:Documentation',
        'Priority:Critical',
        'Status:Approved']}},
        '_type': 'issue'}],
        'max_score': 3.1718001,
        'total': 3},
        'timed_out': False,
        'took': 2}

```

```

In [535]: sid = result_with_condition_query3['_scroll_id']
scroll_size = result_with_condition_query3['hits']['total']
scroll_size

```

Out[535]: 3

Populating the data into local variable

```

In [536]: final_location_ll = []
while(scroll_size > 0):

    for doc in result_with_condition_query3['hits']['hits']:
        #Iterating each results of the query
        location_ll = []
        results = doc['_source']['labels']
        for x in results:
            rr1 = x.split(':')
            if rr1[0] == "Latitude":
                lat_val = float(rr1[1])
                location_ll.append(lat_val)
            if rr1[0] == "Longitude":
                lon_val = float(rr1[1])
                location_ll.append(lon_val)
        if (len(location_ll) == 2):
            final_location_ll.append(location_ll)

            #Appending Latitude and Longitude into the list

    result_with_condition_query3 = es.scroll(scroll_id = sid, scroll = '2m')

    sid = result_with_condition_query3['_scroll_id']
    #Changing the scroll-id
    scroll_size = len(result_with_condition_query3['hits']['hits'])
    final_location_ll

```

Out[536]: [[41.917164, -87.686965], [41.891551, -87.607375]]

```

In [537]: print ("Filtered records for query 3 : ", len(final_location_ll))

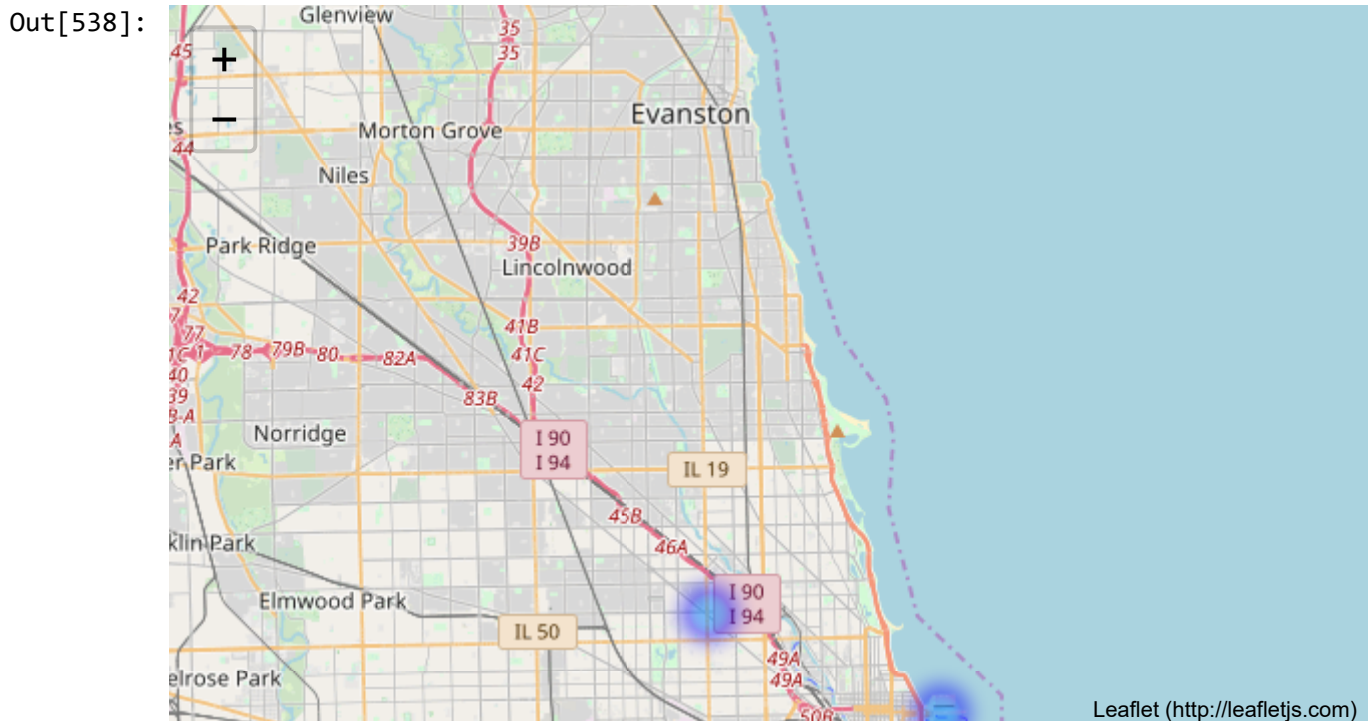
```

Filtered records for query 3 : 2

For generating HeatMap records fetched based on Query 3

```
In [538]: with_condition_heatmap_query3 = folium.Map([41.90293279, -87.70769386],
              zoom_start=11)

with_condition_heatmap_query3.add_child(plugins.HeatMap(final_location_ll[:400
00], radius=15))
with_condition_heatmap_query3
```



Query 4 for DetectionPhase is Field AND Priority is Critical or High AND Status is Approved or inProgress

```
In [539]: doc4 = {
              'size' : 10000,
              'query': {'bool': {'must' : [{'match': {'labels': 'DetectionPhase:Field'}}, {'bool': {
                  'should': [{'match': {'labels': 'Priority:Critical'}}, {'match': {'labels': 'Priority:High'}}]
                }}, {'match': {'labels': 'Status:Approved'}}, {'match': {'labels': 'Status:inProgress'}}]
            }
            }
            result_with_condition_query4=es.search(index='issues',body=doc4, scroll = "1h"
            )
            #print (result_with_condition)
```

```
In [540]: sid = result_with_condition_query4['_scroll_id']
scroll_size = result_with_condition_query4['hits']['total']
scroll_size
```

```
Out[540]: 24
```

Populating the data into local variable

```
In [541]: final_location_ll = []
while(scroll_size > 0):

    for doc in result_with_condition_query4['hits']['hits']:
        #Iterating each results of the query
        location_ll = []
        results = doc['_source']['labels']
        for x in results:
            rr1 = x.split(':')
            if rr1[0] == "Latitude":
                lat_val = float(rr1[1])
                location_ll.append(lat_val)
            if rr1[0] == "Longitude":
                lon_val = float(rr1[1])
                location_ll.append(lon_val)
        if (len(location_ll) == 2):
            final_location_ll.append(location_ll)

            #Appending Latitude and Longitude into the list

        result_with_condition_query4 = es.scroll(scroll_id = sid, scroll = '2m')

        sid = result_with_condition_query4['_scroll_id']
        #Changing the scroll-id
        scroll_size = len(result_with_condition_query4['hits']['hits'])
final_location_ll
```

```
Out[541]: [[41.89323, -87.617419],
[41.853136, -87.63316],
[41.917164, -87.686965],
[41.891551, -87.607375]]
```

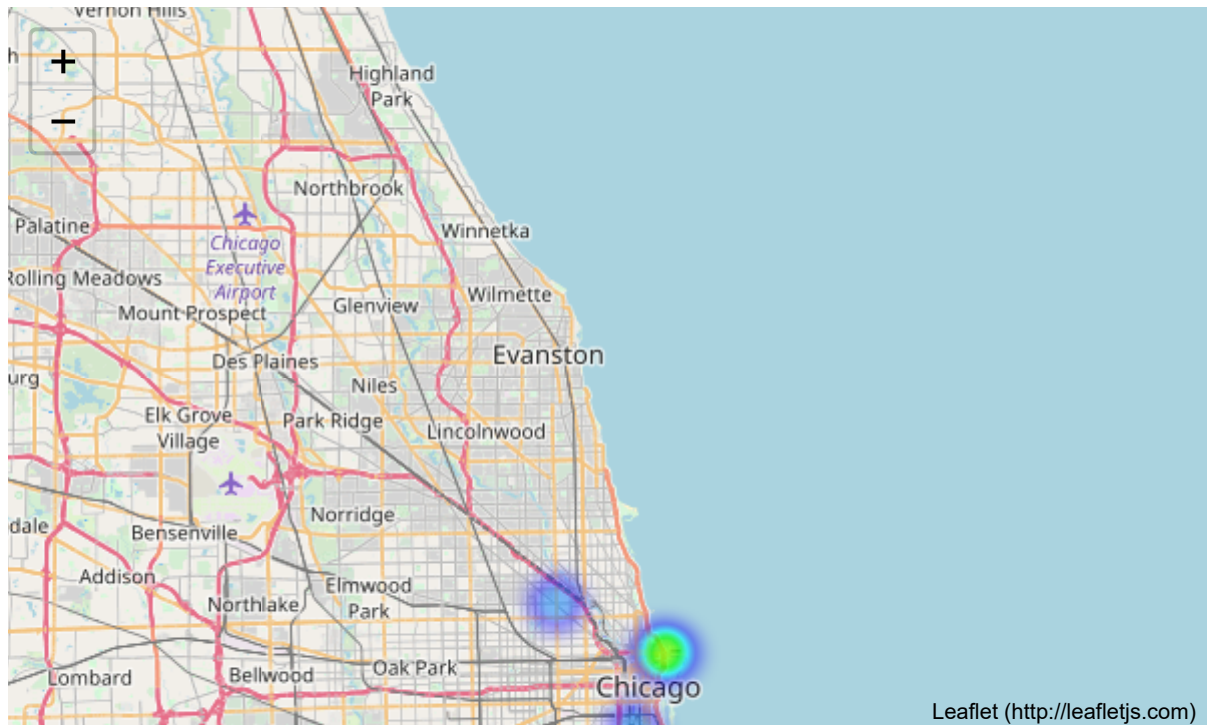
```
In [542]: print ("Filtered records for query 4 : ", len(final_location_ll))
```

```
Filtered records for query 4 : 4
```

For generating HeatMap records fetched based on Query 4

```
In [543]: with_condition_heatmap_query4= folium.Map([41.90293279, -87.70769386],  
                                                    zoom_start=11)  
with_condition_heatmap_query4.add_child(plugins.HeatMap(final_location_11[:400  
00], radius=15))  
with_condition_heatmap_query4
```

Out[543]:



Query 5 for Create Folium HeatMap for all locations that got at least 5 issues create for the same location (latitude, Longitude)

```
In [544]: doc = {
    'size' : 0,
    'query':{
        'bool':{
            'must_not' :[{'match':{'Latitude':'None'}},{ 'match':{'Longitude':
'None'}} ]} },
    "aggs" : {"latitude": {"terms" : { "field" : "Latitude.keyword" ,"min_doc_c
ount": 5,"order" : { "_count" : "asc" } }},
        "aggs":{"longitude":{"terms" : { "field" : "Longitude.keyword","mi
n_doc_count": 5}}}}
    }}
result_with_condition_query5=es.search(index='issues',body=doc)
result_with_condition_query5
```



```

Out[544]: {'_shards': {'failed': 0, 'skipped': 0, 'successful': 5, 'total': 5},
  'aggregations': {'latitude': {'buckets': [{'doc_count': 5,
    'key': '40.170101',
    'longitude': {'buckets': [{'doc_count': 5, 'key': '-92.177847'}]},
    'doc_count_error_upper_bound': 0,
    'sum_other_doc_count': 0}}],
    'doc_count': 5,
    'key': '41.877846',
    'longitude': {'buckets': [{'doc_count': 5, 'key': '-87.631296'}]},
    'doc_count_error_upper_bound': 0,
    'sum_other_doc_count': 0}},
    'doc_count': 5,
    'key': '41.878693',
    'longitude': {'buckets': [{'doc_count': 5, 'key': '-87.638924'}]},
    'doc_count_error_upper_bound': 0,
    'sum_other_doc_count': 0}},
    'doc_count': 5,
    'key': '41.891551',
    'longitude': {'buckets': [{'doc_count': 5, 'key': '-87.607375'}]},
    'doc_count_error_upper_bound': 0,
    'sum_other_doc_count': 0}},
    'doc_count': 6,
    'key': '41.853136',
    'longitude': {'buckets': [{'doc_count': 6, 'key': '-87.633160'}]},
    'doc_count_error_upper_bound': 0,
    'sum_other_doc_count': 0}},
    'doc_count': 6,
    'key': '41.917164',
    'longitude': {'buckets': [{'doc_count': 6, 'key': '-87.686965'}]},
    'doc_count_error_upper_bound': 0,
    'sum_other_doc_count': 0}},
    'doc_count': 7,
    'key': '41.880982',
    'longitude': {'buckets': [{'doc_count': 7, 'key': '-87.630553'}]},
    'doc_count_error_upper_bound': 0,
    'sum_other_doc_count': 0}},
    'doc_count': 7,
    'key': '41.893020',
    'longitude': {'buckets': [{'doc_count': 6, 'key': '-87.631556'}]},
    'doc_count_error_upper_bound': 0,
    'sum_other_doc_count': 0}},
    'doc_count': 7,
    'key': '41.893230',
    'longitude': {'buckets': [{'doc_count': 7, 'key': '-87.617419'}]},
    'doc_count_error_upper_bound': 0,
    'sum_other_doc_count': 0}},
    'doc_count': 8,
    'key': '41.852623',
    'longitude': {'buckets': [{'doc_count': 8, 'key': '-87.611958'}]},
    'doc_count_error_upper_bound': 0,
    'sum_other_doc_count': 0}}],
  'doc_count_error_upper_bound': 0,
  'sum_other_doc_count': 44}},
  'hits': {'hits': [], 'max_score': 0.0, 'total': 137},
  'timed_out': False,
  'took': 19}

```

Populating the data into local variable

```
In [545]: list_query_5 = []
for ele in result_with_condition_query5['aggregations']['latitude']['buckets']:
    lst_q5 = []
    d = dict(ele)
    lst_q5.append(float(d['key']))
    d1 = dict(d['longitude'])
    for i in d1['buckets']:
        dict(i)
        lst_q5.append(float(i['key']))
    list_query_5.append(lst_q5)
```

For generating HeatMap records fetched based on Query 5

```
In [546]: with_condition_heatmap_quer5 = folium.Map([41.9029,-87.7070],zoom_start=11)
print("Filtered records for query 5 : ",len(list_query_5))
```

Filtered records for query 5 : 10

```
In [547]: with_condition_heatmap_quer5.add_child(plugins.HeatMap(list_query_5[:40000], r
radius=15))
with_condition_heatmap_quer5
```

