

作业实现思路说明

利用python通过mongodb进行数据分析工作，工作重心在于前期数据整理和之后的查询分析。根据所学知识，首先需要进行数据准备工作，对读入的样本数据进行测试，检查数据规范性、是否存在不正常的数据。修复数据后整理成可插入的数据格式插入到mongo中，再做后续的各类分析，挖掘数据信息

键值组合模式分析

通过之前的课程学习，能够了解到所有提交的数据都可能存在一些并不规范的数据，为了能够统一的进行识别处理按照所学知识对所有tag标签的属性值进行收集检查。排查分析后的数据可知，k键值对中可能存在异常字符影响分析的标签属性有14个，没有进行归类定义的有8601个，其他基本都属于比较合理常见的键值，

```
In [1]: # -*- coding: utf-8 -*-
import xml.etree.ElementTree as ET
import pprint
import re
import codecs
```

```
"""
针对数据和官网介绍的信息数据结构说明，以及之前项目整理的正则表达式，分析出目前数据中能发现的几种情况，其中对问题数据和未归类数据都将进行具体数据的记录
生成问题数据文件，尝试过直接输出在页面，但是会影响加载速度，因此单独保存问题数字字段
"""
lower = re.compile(r'^([a-z]|_)*$')
upper = re.compile(r'^([A-Z]|_)*$')
mixed = re.compile(r'^([a-zA-Z]|_)*$')
problemchars = re.compile(r'[\=\\+/&<>;\\\"\\?%#$@\\,.\\t\\r\\n]')
splittime = ["1次分割", "2次分割", "3次分割", "4次分割"]
othercnt = []
problemcnt = []
```

```
def key_type(element, keys):
    if element.tag == "tag":
        key = element.attrib['k']
        keys=statusColon(key, keys)
    return keys
```

```
def status(key):
    if problemchars.search(key):
        problemcnt.append(key)
        return "异常字符"
    elif lower.search(key):
        return "小写"
    elif upper.search(key):
        return "大写"
    elif mixed.search(key):
        return "大小写混合"
    else:
        othercnt.append(key)
        return "其他类型"
```

```
def statusColon(key, keys):
    keySplit = checkColon(key)
    if(len(keySplit)==1):
        processStatus(splittime[0], keys)
```

```

keyStatus=status(key)
process_status(keyStatus, keys)
else:
    keyStatus=splittime[len(keySplit)-1]
    process_status(keyStatus, keys)

return keys

def check_colon(key):
    return re.split('`:', key)

def process_status(status, keys):
    if status in keys:
        keys[status] += 1
    else:
        keys[status] = 1
    return keys

def process_map(filename):
    keys = {}
    for _, element in ET.iterparse(filename):
        keys = key_type(element, keys)
        element.clear()
    return keys

def test():
    keys = process_map('chicago.osm')
    pprint.pprint(keys)

    file_out = "problemchars-chicago.csv"
    data = []
    with codecs.open(file_out, "w", "utf-8") as fo:
        for line in problemcnt:
            fo.write(line+"\n")

    file_out = "othercntchars-chicago.csv"
    with codecs.open(file_out, "w", "utf-8") as fo:
        for line in othercnt:
            fo.write(line+"\n")

if __name__ == "__main__":
    test()

```

```

{'1次分割': 1617867,
'2次分割': 3053318,
'3次分割': 1487444,
'其他类型': 8601,
'大写': 1131,
'大小写混合': 29,
'小写': 1608092,
'异常字符': 14}

```

统计文件中出现过的所有标签数量和标签内attribute属性键值对的数量

设定数据整理思路需要了解大概的标签结构构成。通过结合官方文档说明以及样本数据的构成，设计对本次作业最有效 的数据整理方式。除了文件描述标签外，实际存在的标签可以分为 member , node , tag , relation , way , nd，标签次数记录在attrnum，每个标签的attribute分别记录，通过这种方式可以更好的规划到每个标签在后续过程中需要进行的数据处理判断逻辑

In [3]: # -*- coding: utf-8 -*-

```
"""
首先从数据表中了解有多少个标签tag, 以及每个标签下有多少个属性attr, 后续在数据整理入库时作为结构
参考
"""

import xml.etree.cElementTree as ET

def collect_tags(filename):

    tags={}

    for event, elem in ET.iterparse(filename):
        if event == 'end':
            tag = elem.tag
            #区分现在的字典表中是否有标签存在, 并进行初始化或者计数
            if tag not in tags.keys():
                tags[tag]={}
                tags[tag]["attrnum"]=1
            else:
                tags[tag]["attrnum"]+=1

            #区分现在的标签字典表中是否有遍历的属性存在, 并进行初始化或者计数
            attrkeys=elem.attrib
            for key in attrkeys:
                if(key not in tags[tag].keys()):
                    tags[tag][key]=1
                else:
                    tags[tag][key]+=1
            elem.clear() #通过测试发现如果不清空, 内存不会释放

    return tags

##查组成要素数量
tags = collect_tags('chicago.osm')
pprint.pprint(tags)
```

```
{'bounds': {'attrnum': 1,
            'maxlat': 1,
            'maxlon': 1,
            'minlat': 1,
            'minlon': 1,
            'origin': 1},
 'member': {'attrnum': 43678, 'ref': 43678, 'role': 43678, 'type': 43678},
 'nd': {'attrnum': 9072027, 'ref': 9072027},
 'node': {'attrnum': 7679935,
           'changeset': 7679935,
           'id': 7679935,
           'lat': 7679935,
           'lon': 7679935,
           'timestamp': 7679935,
           'uid': 7679934,
           'user': 7679934,
           'version': 7679935},
 'osm': {'attrnum': 1, 'generator': 1, 'version': 1},
 'relation': {'attrnum': 2484,
              'changeset': 2484,
              'id': 2484,
              'timestamp': 2484,
              'uid': 2484,
              'user': 2484,
              'version': 2484},
 'tag': {'attrnum': 6158629, 'k': 6158629, 'v': 6158629},
 'way': {'attrnum': 1087021,
          'changeset': 1087021,
          'id': 1087021,
          'timestamp': 1087021,
          'uid': 1087020,
          'user': 1087020,
          'version': 1087021}}
```

统计标签结构化的情况，从而答题了解每个标签结构的组成，对于后续json序列化插入有关键的参考价值

```
In [4]: import pprint
import re
import codecs
import xml.etree.cElementTree as ET

##查数据结构, 与上述需求不同检查, 按照xml结构解析字段统计数
def get_inner_tages(keyDict, keyList):
    if len(keyList) == 1:

        if keyList[0] in keyDict:
            if "Total" in keyDict[keyList[0]]:
                keyDict[keyList[0]]["Total"] += 1
            else:
                keyDict[keyList[0]]["Total"] = 1
        else:
            keyDict[keyList[0]] = {"Total": 1}
    else:
        if keyList[0] not in keyDict:
            keyDict[keyList[0]] = {}
        get_inner_tages(keyDict[keyList[0]], keyList[1:])
    return keyDict

def process_map(filename):
    tags={}
    otheles={}
    for event, element in ET.iterparse(filename):
        if( event =='end'):
            if (element.tag in ["node","way"]):
                alltags = element.findall("tag")
                for tag in alltags:
                    if ((tag.tag == "tag")):
                        key = tag.attrib['k']
                        keySplit = re.split(':', key)
                        tags = get_inner_tages(tags, keySplit)
                element.clear()
            else:
                otheles[element.tag]=element.tag
    pprint.pprint(otheles)
    return tags

tags= process_map("chicago.osm")
tags
```

```
{'bounds': 'bounds',
'member': 'member',
'nd': 'nd',
'osm': 'osm',
'relation': 'relation',
'tag': 'tag'}
```

```
Out[4]: {'Andover Court': {'Total': 1},  
'Comment': {'Total': 14},  
'FAA': {'Total': 1},  
'FIXME': {'Total': 274, 'railway': {'Total': 1}, 'ref': {'Total': 33}},  
'LAYER': {'Total': 4},  
'Length': {'Total': 1},  
'Location': {'Total': 1},  
'Montrose Avenue': {'Total': 1},  
'NHD': {'ComID': {'Total': 7675},  
'Elevation': {'Total': 101},  
'FCode': {'Total': 7665},  
'FDate': {'Total': 5230},  
'FTYPE': {'Total': 5227},  
'FType': {'Total': 2429},  
'GNIS_ID': {'Total': 80},  
'GNIS_Name': {'Total': 82},  
'RESOLUTION': {'Total': 5230},  
'ReachCode': {'Total': 6563},  
'way_id': {'Total': 2435}},  
'NRHP': {'Total': 1},  
'NHS': {'Total': 832},  
'NRHP': {'Total': 1},  
'TODO': {'Total': 3},  
'Train': {'Total': 1},  
'abandoned': {'Total': 25},  
'aeroway': {'Total': 1},  
'highway': {'Total': 19},  
'name': {'Total': 8}},  
'access': {'Total': 4232, 'conditional': {'Total': 1}},  
'add': {'city': {'Total': 1}},  
'addr': {'STE': {'Total': 1},  
'Total': 1,  
'city': {'Total': 20150},  
'country': {'Total': 1798},  
'full': {'Total': 43},  
'housename': {'Total': 145},  
'housenumber': {'Total': 507957},  
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'province': {'Total': 2},  
'state': {'Total': 2634},  
'street': {'Total': 508039},  
'name': {'Total': 503165},  
'prefix': {'Total': 486054},  
'suffix': {'Total': 55},  
'type': {'Total': 497420}},  
'suite': {'Total': 11},  
'unit': {'Total': 19},  
'admin_level': {'Total': 18},  
'advertising': {'Total': 3},  
'aerodrome': {'Total': 1},  
'aeroway': {'Total': 1509},  
'airport_ref': {'Total': 277},  
'alt': {'Total': 1},  
'alt_name': {'Total': 157},  
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'architect': {'Total': 28},  
'area': {'Total': 783},  
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'artwork_type': {'Total': 22},  
'athletics': {'Total': 8},  
'atm': {'Total': 77},  
'attraction': {'Total': 10},  
'attribution': {'Total': 2470},
```

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'bar': {'Total': 2},
'barrier': {'Total': 1772},
'baseball': {'Total': 1},
'basin': {'Total': 50},
'bench': {'Total': 45},
'bicycle': {'Total': 4960},
'bicycle_parking': {'Total': 3},
'board_type': {'Total': 1},
'boat': {'Total': 172},
'border': {'Total': 1},
'border_type': {'Total': 8},
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'boundary': {'Total': 4094, 'type': {'Total': 1}},
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'brand': {'Total': 113},
'bridge': {'Total': 6550},
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'building': {'Total': 834137},
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'capacity': {'Total': 738},
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'women': {'Total': 3}},
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'collection_time': {'Total': 1},
'collection_times': {'Total': 5},
'community': {'Total': 1, 'en': {'Total': 1}},
'construction': {'Total': 116},
'contact': {'email': {'Total': 1},
'fax': {'Total': 9},
'phone': {'Total': 35},
'website': {'Total': 24}},
'content': {'Total': 385},
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'conveying': {'Total': 13},
'country': {'Total': 1},
'covered': {'Total': 138},
'craft': {'Total': 2},
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'fenced': {'Total': 1},
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'fishing': {'Total': 1},
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'frequency': {'Total': 1671},
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'generator': {'method': {'Total': 17}},
'output': {'electricity': {'Total': 14}},
'plant': {'Total': 2},
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'type': {'Total': 2}},
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'yoshon': {'Total': 1}},
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'google_plus': {'Total': 2}},
'list': {'Total': 1},
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'lane': {'right': {'Total': 1}}},
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```

替换缩写变成标准单词

addr:street记录了街道名称，其中出现了各类有个人色彩的缩写，因此通过先输出一次后得出所有addr:street名称结果，并针对结果进行整理后更新，将所有收集到的缩写更新为标准词组

```

In [5]: import xml.etree.cElementTree as ET
         from collections import defaultdict
         import re
         import pprint

         street_type_re = re.compile(r'\b\S+\.?$', re.IGNORECASE)

         expected = ["Street", "Avenue", "Boulevard", "Drive", "Court", "Place", "Square", "Lane", "Road",
                     "Trail", "Parkway", "Commons"]

         # 经过测试 有些字段可以直接判定不需要进行更新的，单独列出
         exception=["East", "Damen", "Belmont", "US-6", "Ter", "Wabansia", "0"]

         def convert_street_type(street_types, street_name):
             m = street_type_re.search(street_name)
             if m:
                 street_type = m.group()
                 if (street_type not in expected) and (street_type not in exception):
                     street_types[street_type].add(street_name)

         def audit(osmfile):
             street_types = defaultdict(set)
             for event, elem in ET.iterparse(osmfile, events=("end",)):
#             for event, elem in ET.iterparse(osmfile, events=("start",)):
#                 if (elem.tag == "node" or elem.tag == "way"):
#                     for tag in elem.iter("tag"):
#                         if (tag.attrib['k'] == "addr:street"):
#                             convert_street_type(street_types, tag.attrib['v'])
#                         elem.clear()
#
#                 if (elem.tag in ["node", "way"]):
#                     alltags = elem.findall("tag") ##效果与.iter效果相同，但一种方式采用end结束处理，另外一种方式采用start方式处理
#                     for tag in alltags:
#                         if ((tag.tag == "tag")):
#                             if (tag.attrib['k'] == "addr:street"):
#                                 convert_street_type(street_types, tag.attrib['v'])
#                         elem.clear()

             return street_types

         def test():
             st_types = audit('chicago.osm')
             pprint.pprint(dict(st_types))
             print("-----")
             if __name__ == '__main__':
                 test()

```

{'104': {'North Sherman Avenue #104'},
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'Ridge Terrace',
'South Park Terrace',
'West Cahill Terrace',
'West California Terrace',
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'pkwy' : {'Center pkwy'},
'rd' : {'S. Rohlwing rd'},
'road' : {'west cuba road and rand road', 'E Algonquin road'},
'st' : {'E main st'}}

```
In [6]: import xml.etree.cElementTree as ET
```

```

from collections import defaultdict
import re
import pprint

street_type_re = re.compile(r'\b\S+\.\?$', re.IGNORECASE)

expected = ["Street", "Avenue", "Boulevard", "Drive", "Court", "Place", "Square", "Lane", "Road",
            "Trail", "Parkway", "Commons"]

# 经过测试 有些字段可以直接判定不需要进行更新的，单独列出
exception=["East", "Damen", "Belmont", "US-6", "Ter", "Wabansia", "0"]

def convert_street_type(street_types, street_name):
    m = street_type_re.search(street_name)
    if m:
        street_type = m.group()
        if (street_type not in expected) and (street_type not in exception):
            street_types[street_type].add(street_name)

def audit(osmfile):
    street_types = defaultdict(set)
    for event, elem in ET.iterparse(osmfile, events=("end",)):
        # for event, elem in ET.iterparse(osmfile, events=("start",)):
        #     if (elem.tag == "node" or elem.tag == "way"):
        #         for tag in elem.iter("tag"):
        #             if (tag.attrib['k'] == "addr:street"):
        #                 convert_street_type(street_types, tag.attrib['v'])
        #             elem.clear()

        if (elem.tag in ["node", "way"]):
            alltags = elem.findall("tag")  ##效果与 iter效果相同，但一种方式采用end结束处理，另外一种方式采用start方式处理
            for tag in alltags:
                if ((tag.tag == "tag")):
                    if (tag.attrib['k'] == "addr:street"):
                        convert_street_type(street_types, tag.attrib['v'])
            elem.clear()

    return street_types

```

#根据上一条操作的输出记录，展开替换所有已知缩写

```

mapping = { "St": "Street", "st": "Street",
            "St.": "Street",
            "Ave": "Avenue",
            "Ave.": "Avenue",
            "AVE.": "Avenue",
            "Dr": "drive",
            "Dr.": "drive",
            "Blvd": "boulevard",
            "Blvd.": "boulevard",
            "blvd": "boulevard",
            "Fwy": "freeway",
            "Ln": "lane",
            "Wy": "way",
            "LN": "lane",
            "PKWY": "PARKWAY",
            "Pkwy": "PARKWAY",
            "pkwy": "PARKWAY",
            "Rd": "Road",
            "rd": "Road",
            "Rd.": "Road",
            "Cir": "circle",
            "CT": "court",
            "RD": "Road"
}

```

```
"Ct. ":"court",
"Ct ":"court",
"Ctr. ":"court", "PLZ":"Plaza",
"Hwy ":"Highway",
"HWY ":"Highway",
"Hwy. ":"Highway"
}

def update_name(name, mapping):
    if(len(street_type_re.findall(name))>0):
        if street_type_re.findall(name) [0] in exception:
            return name
        else:
            substring=street_type_re.findall(name) [0]
            if(substring in mapping ):
                newname = street_type_re.sub(mapping[substring], name, 1 )
                return newname
            else:
                return name
    else:
        return name

def run():
    st_types = audit('chicago.osm')
    for st_type, ways in st_types.items():
        for name in ways:
            updatename = update_name(name, mapping)
            pprint.pprint(updatename)

if __name__ == '__main__':
    run()
```

'N. Northwest Highway'
'South Avenue D'
'Elk Grove Town court'
'Touhy Avenue'
'N Damen Avenue'
'Brookfield Avenue'
'Calumet Avenue'
'W. Euclid Avenue'
'N. Oriole Avenue'
'Burlington Avenue'
'Milwaukee Avenue'
'S. Doty Avenue'
'N. Kilbourn Avenue'
'North Clybourn Avenue'
'Grand Avenue'
'W Park Avenue'
'South Avenue M'
'S. Rohlwing Road'
'US 30'
'Center PARKWAY'
'Merchandise Mart Plaza'
'West Merchandise Mart Plaza'
'North Riverside Plaza'
'South Riverside Plaza'
'S EWING AVE'
'Gloucester Way North'
'Parkway North'
'South Chicago'
'Raymond drive'
'Boulder drive'
'Arrowhead drive'
'Varsity drive'
'Gregory M Sears drive'
'Augusta drive'
'Fox Valley Center drive'
'Woodridge drive'
'Summit drive'
'Academic drive'
'Meadows drive'
'Steamboat drive'
'Breckenridge drive'
'Greenbriar drive'
'John M Boor drive'
'Briarwood drive'
'Plaza drive'
'Marketview drive'
'Industrial drive'
'Charlestown drive'
'Regent drive'
'Brentwood drive'
'Copper Mountain drive'
'N Columbus Service drive'
'Alpine drive'
'Authority drive'
'N Bolingbrook drive'
'Yorktown Center'
'Yorktown Shopping Center'
'Convenience Center'
'East 125th Plaza'
'East Carver Plaza'
'N Glenwood'
'N Paulina'
'East Grand'
'W Lincoln Highway'
'South Route 59'

'S HWY 59'
'Route IL 59'
'S Rte 59'
'HWY 59'
'Route 59'
'N Elston'
'South Avenue C'
'South Avenue K'
'South Avenue H'
'West Montrose'
'W. Northwest Highway'
'Route 53'
'West Harrington lane'
'West High Bridge lane'
'West Evelyn lane'
'North Sauganash lane'
'West Memory lane'
'West University lane'
'West Joyce lane'
'8 S Michigan Ave Suite 1220'
'South Avenue B'
'White Feather lane'
'Erica lane'
'Running Deer lane'
'Brighton lane'
'Evergreen lane'
'Hendricks lane'
'Leadville lane'
'North Humboldt SD'
'Route 64'
'North Milwaukee Avenue 129'
'South Avenue F'
'W. Peregrine court'
'HWY 47'
'Margaret Pl'
'South Avenue L'
'South Ashland'
'South Avenue E'
'Danada Square E'
'Shabbona'
'East US 231'
'Auburn drive'
'Montrose Harbor drive'
'W. Peregrine drive'
'W Lakeshore drive'
'Corporate Grove drive'
'Sauk boulevard'
'South Route 83'
'West Churchill ROW'
'Indianapolis boulevard'
'South Naper boulevard'
'Woodridge Way'
'N Milwaukee'
'East Madison Park'
'East Groveland Park'
'East Madison Avenue Park'
'Milburn Park'
'East Woodland Park'
'Rehm Park'
'West Midway Park'
'South Washington Park'
'Ingleside Park'
'South Hyde Park Boulevard'
'Ridge Terrace'
'North Alta Vista Terrace'
'West Castlewood Terrace'

'West Junior Terrace'
'West Westgate Terrace'
'North Riversedge Terrace'
'North Wesley Terrace'
'North Geneva Terrace'
'Hull Terrace'
'North Parkview Terrace'
'North Eastlake Terrace'
'West Margate Terrace'
'West Jonquil Terrace'
'North Edgebrook Terrace'
'South Park Terrace'
'Harvard Terrace'
'West California Terrace'
'West Juneway Terrace'
'West Cahill Terrace'
'North Sandburg Terrace'
'West Gordon Terrace'
'Colfax Terrace'
'US 20'
'N Kedzie'
'Kedzie'
'Prairie Stone Pwy'
'South Avenue J'
'North Lincoln Park West'
'Park Avenue West'
'South Doty Avenue West'
'Ginny Lane West'
'North Lincoln Park West'
'Gloucester Way West'
'west cuba road and rand road'
'E Algonquin road'
'Michigan Avenue N'
'South Avenue N'
'Veterans PARKWAY'
'W Veterans PARKWAY'
'Maple Avenue'
'East Ogden Avenue'
'Forest Avenue'
'South Cumberland Avenue'
'W Prairie Avenue'
'S Harlem Avenue'
'W North Avenue'
'Lake Avenue'
'N Western Avenue'
'Belmont Avenue'
'N Hoyne Avenue'
'Ogden Avenue'
'N California Avenue'
'W Park Avenue'
'W 133rd Avenue'
'W Touhy Avenue'
'Brook Forest Avenue'
'North Lincoln Avenue'
'Thatcher Avenue'
'N Lincoln Avenue'
'West Fullerton Avenue'
'W Fullerton Avenue'
'West Euclid Avenue'
'Central Avenue'
'N Southport Avenue'
'N Wheaton Avenue'
'W Highland Avenue'
'Sayre Avenue'
'W Dempster Avenue'
'Touhy Avenue'

'East 79th Avenue'
'Torrence Avenue'
'Wilmette Avenue'
'North Clybourn Avenue'
'W Lawrence Avenue'
'Milwaukee Avenue'
'N Greenview Avenue'
'Dundee Avenue'
'West Maple Avenue'
'Larkin Avenue'
'South Gary Avenue'
'N Milwaukee Avenue'
'E Park Avenue'
'Oak Avenue'
'Jefferson Avenue'
'Cicero Avenue'
'West North Avenue'
'S. Arlington Heights Road'
'E. Rand Road'
'W. State Road'
'Baldwin Road'
'N. Rand Road'
'Park Street'
'Lillie Street'
'Capital Street'
'W Division Street'
'N Ellsworth Street'
'Jean Street'
'Short Street'
'Cross Street'
'Deborah Street'
'Kildare Street'
'W Main Street'
'S Gilbert Street'
'Railroad Street'
'Webster Street'
'S 1st Street'
'W Lake Street'
'Harbor Street'
'N Halsted Street'
'Central Street'
'Ohio Street'
'Kathleen Street'
'W Grace Street'
'W. Belden Street'
'S 5th Street'
'Raymond Street'
'Towne Street'
'S Washington Street'
'159th Street'
'Suzanne Street'
'N State Street'
'Liberty Street'
'Welch Street'
'W 111 Street'
'S Fryer Street'
'S State Street'
'Jackson Street'
'Rose Street'
'W Chicago Street'
'Main Street'
'S Lincolnway Street'
'E Chicago Street'
'W Washington Street'
'N Division Street'
'Dempster Street'

'North Hough Street'
'West Lake Street'
'N Railroad Street'
'S 8th Street'
'N Main Street'
'W Lockport Street'
'N Franklin Street'
'N. Clark Street'
'Tipperary Street'
'Nequa Street'
'Watch Street'
'Pierce Street'
'E Main Street'
'N St. Clair Street'
'W 183rd Street'
'Division Street'
'West Fulton Market'
'West South Water Market'
'60008'
'South Prospect'
'Shining Moon Path'
'Red Hawk Path'
'W Eames Street'
'E. Illinois Street'
'East 53rd Street'
'W 129th Street'
'N. Main Street'
'Justamere'
'Townplace Circle'
'Blanchard Circle'
'Calvin Circle'
'Woodland Park Circle'
'Knox Circle'
'South Loomis'
'1050 Essington Rd. Joliet, IL 60435'
'North Breakwater Access'
'Randall RD'
'North Lincoln Park WEST'
'Ridge Road'
'Silver Glen Road'
'Manheim Road'
'N Weber Road'
'Crane Road'
'Kirk Road'
'W Schick Road'
'Wise Road'
'Binder Road'
'S LaGrange Road'
'Freeman Road'
'Hobson Road'
'Dundee Road'
'Justamere Road'
'N Wood Dale Road'
'East Higgins Road'
'E Higgins Road'
'Pyott Road'
'S Naperville Road'
'Bloomingdale Road'
'Mason Road'
'Rand Road'
'N Rand Road'
'McHenry Road'
'E State Road'
'Carpenter Road'
'W Romeo Road'
'Plainfield Road'

'Miller Road'
'Trout Farm Road'
'S Randall Road'
'Waukegan Road'
'Normantown Road'
'North Randall Road'
'Big Timber Road'
'N Randal Road'
'Pingree Road'
'South Eola Road'
'Warrenville Road'
'Dara James Road'
'Lake Cook Road'
'N Randall Road'
'Nesler Road'
'Galligan Road'
'Randall Road'
'Tyrrell Road'
'Tower Hill Road'
'Powers Road'
'Schmale Road'
'Sleeping Bear Trl'
'South Avenue G'
'North River Walk'
'Telluride court'
'Glenbrook court'
'Park court'
'Leadville court'
'Hennessy court'
'Alpine court'
'Powder Horn court'
'Towne court'
'Breckenridge court'
'Brittany court'
'Boulder court'
'Dillon court'
'Kilkenny court'
'Vail court'
'Andra court'
'Woodland Park court'
'Pauline court'
'Toll View court'
'Durango court'
'Joan court'
'Timber Trails court'
'Pamela court'
'Loveland court'
'Kerry court'
'Timber court'
'North Besly court'
'North Kenton court'
'South Tan court'
'South Washington Park court'
'North Crilly court'
'South Ridgewood court'
'North Willetts court'
'North Hartland court'
'South Elias court'
'North Marion court'
'South Haynes court'
'West Lithuanian Plaza court'
'North Haussen court'
'North St Johns court'
'South Grady court'
'West St Georges court'
'West Julia court'

'South Gilbert court'
'South Shelby court'
'North Fern court'
'South Park Shore East court'
'West Henry court'
'North Lehmann court'
'West Village court'
'North Ritchie court'
'South Pitney court'
'North Willets court'
'North Hampden court'
'North Surrey court'
'North Willard court'
'South Givins court'
'North Waterloo court'
'North Davlin court'
'South Melody court'
'North St Michaels court'
'East 93rd court'
'North Maria court'
'60463'
'Glenbrook circle'
'Aspen circle'
'South Robert Kingery Highway'
'West Northwest Highway'
'Lincoln Highway'
'East Northwest Highway'
'Busse Highway'
'North Northwest Highway'
'Northwest Highway'
'West Fullerton PARKWAY'
'West Beverly Glen PARKWAY'
'West Winneconna PARKWAY'
'South Euclid PARKWAY'
'West Diversey PARKWAY'
'South Calumet PARKWAY'
'South Wong PARKWAY'
'South Young PARKWAY'
'West Normal PARKWAY'
'West Congress PARKWAY'
'South Halsted PARKWAY'
'South Indiana PARKWAY'
'South Walden PARKWAY'
'North Edens PARKWAY'
'South Louie PARKWAY'
'South Lee PARKWAY'
'South Tom PARKWAY'
'North State PARKWAY'
'South Throop PARKWAY'
'South Campus PARKWAY'
'South Prairie PARKWAY'
'West College PARKWAY'
'W Armitage'
'North Broadway'
'West Broadway'
'E main Street'
'North Sherman Avenue #104'
'60546'
'Route 38'
'South Harding AV'
'Patriot boulevard'
'North McCormick boulevard'
'Franklin boulevard'
'Oakwood boulevard'
'Hansen boulevard'
'S Kenilworth boulevard'

' Sauk boulevard'
' Grand boulevard'
' South Cottage Grove boulevard'
' Timber Trails boulevard'
' Potawatomi boulevard'
' Route 14'
' South Boulevard WAY'
' West Route 34'
' US 34'

将编辑替换以后的数据写入json文件并写入mongodb

```
In [7]: import pdb
import xml.etree.cElementTree as ET
import pprint
import re
import codecs
import json
from pymongo import MongoClient

```
<node changeset="7781188" id="219850" lat="41.7585879" lon="-87.9101245" timestamp="2011-04-06
T05:17:15Z" uid="207745" user="NE2" version="54">
 <tag k="exit_to" v="Joliet Road" />
 <tag k="highway" v="motorway_junction" />
 <tag k="ref" v="276C" />
</node>
```
crtinfo = [ "version", "user", "timestamp", "uid", "changeset"]

problemchars = re.compile(r' [=+/&<>;\r\n]+')

def parseJson(element):
    node = {}
    if (element.tag in ["node", "way", "relation"]):
        #print("parsejson: ", ET.tostring(element).decode())
        createdinfo = {}
        geo = []
        node_refs = []

        members=[]

        node["id"] = element.attrib["id"]
        node["tagtype"] = element.tag

        try:
            geo.append(float(element.attrib["lat"]))
            geo.append(float(element.attrib["lon"]))
            node["geo"] = geo
        except KeyError:
            pass

        for ck in crtinfo:
            if(ck in element.keys()):
                createdinfo[ck] = element.attrib[ck]
        node["ndinfo"] = createdinfo

        for tag in element.iter("tag"):
            #print(ET.tostring(tag))
```

```

key = tag.attrib["k"]      #k值存在多端切分:, 需要分别保存
value = tag.attrib["v"]
arr = re.split('`:', key)
node = parse_key(node, arr, value)

try:
    node["address"] = node.pop("addr")
except KeyError:
    pass

#relation有memeber节点
for mb in element.iter("member"):
    #print(ET.tostring(tag))
    member={}
    for k in mb.attrib:
        member[k]= mb.attrib[k]
    members.append(member)
node["member"]=members

#way节点一般有nd关联节点
for nd in element.iter("nd"):
    node_refs.append(nd.attrib["ref"])
node["node_refs"] = node_refs

return node
else:
    return None

def parse_key(keyDict, keyList, keyValue):
    if len(keyList) == 1:
        if(keyList[0]=='street'):
            keyValue=update_name(keyValue, mapping)
            keyDict[keyList[0]] = keyValue
    else:
        if keyList[0] not in keyDict:
            keyDict[keyList[0]] = {}
        if isinstance(keyDict[keyList[0]], dict):
            keyDict[keyList[0]]=parse_key(keyDict[keyList[0]], keyList[1:], keyValue)
        else:
            k = ""
            for key in keyList:
                k += key + "_"
            k = k[:-1]
            keyDict[k] = keyValue
    return keyDict

### 经过尝试数据量过大, 为了避免内存占用, 通过直接传入数据库参数, 在业务代码中直接插库,
### fmt支持输出保存数据格式化
def process_map(db, file_in, fmt = False):

    file_out = "{0}.json".format(file_in)
    data = []
    idx=0
    with codecs.open(file_out, "w", "utf-8") as fo:
        for event, elem in ET.iterparse(file_in, events=("start","end")):      #针对事件因为需要
            #在内部展开子节点, 因此需要events包括开口和闭口
            if(event=="start"):

                el = parseJson(elem)
                idx+=1
                if el:

                    if fmt:

```

```
        fo.write(json.dumps(el, indent=2)+",\n")
    else:
        fo.write(json.dumps(el) + "\n")
        if("way" in elem.attrib):
            pprint.pprint(el)
            db.chicago.insert_one(el)
    elif(event=="end"):
        elem.clear()

print("all element ", idx)
return;

def runInsert():

    client = MongoClient("mongodb://192.168.3.155:27017")
    db = client.map
    process_map(db, 'chicago.osm', True)

runInsert()
```

```
all element 24043776
```

```
In [8]: import gc
gc.collect()
```

```
Out[8]: 4356
```

```
In [9]: import pdb
import string
import pprint
from pymongo import MongoClient
import os
import re
```

基本数据概览

数据源采用芝加哥城市数据进行分析，参考文件要求进行如下选择。

1、数据文件大小 数据文件大小在1.8GB 采用大型文本数据原因是为了检查使用python解析xml文件的功能理解，在数据准备及插入数据库过程中，基本流程内保证内存占用<800M

2、本次数据清洗后入库有效数据9869440条。其中relation类型数据2484条，way类型数据1087021条，node类型数据7879935条。

In [10]:

```
#query()

pprint pprint("chicago.osm file size : "+ str(os.path.getsize('chicago.osm')))

client =MongoClient("mongodb://192.168.3.155:27017")
db = client.map.chicago

pprint pprint("all rows " + str(db.count()))

rs= db.aggregate([
    {"$group": {"_id": "$tagtype", "count": {"$sum":1}}
])
pprint pprint("all tag types ")
for doc in rs:
    pprint pprint(doc)

'chicago.osm file size : 1887427618'
'all rows 8769440'
'all tag types '
{'_id': 'relation', 'count': 2484}
{'_id': 'way', 'count': 1087021}
{'_id': 'node', 'count': 7679935}
```

数据统计维度分析

根据用户提交情况统计，展示哪些用户贡献度最高。按照贡献从多到少提供

```
In [11]: print("-----根据ndinfo.user统计设施次数-----")
-----")
rs= db.aggregate([
    {"$group": {"_id": "$ndinfo.user", "count": {"$sum": 1}}}, {"$sort": {"count": -1}}
])
for doc in rs:
    pprint.pprint(doc)
```

```
{'_id': 'chicago-buildings', 'count': 5724631}
{'_id': 'Umbugben', 'count': 1031161}
{'_id': 'alexrudd (NHD)', 'count': 269298}
{'_id': 'woodpeck_fixbot', 'count': 261575}
{'_id': 'TIGERcnl', 'count': 119770}
{'_id': 'patester24', 'count': 115641}
{'_id': 'mpinnau', 'count': 107196}
{'_id': 'bbmiller', 'count': 85927}
{'_id': 'NE2', 'count': 82519}
{'_id': 'Sundance', 'count': 78046}
{'_id': 'Kristian M Zoerhoff', 'count': 67888}
{'_id': 'Tom Layo', 'count': 63017}
{'_id': 'nickvet419', 'count': 58955}
{'_id': 'Deo Favente', 'count': 50629}
{'_id': 'bot-mode', 'count': 48483}
{'_id': 'iandees', 'count': 42925}
{'_id': 'alexrudd', 'count': 34574}
{'_id': 'Rub21', 'count': 33913}
{'_id': 'WernerP', 'count': 31840}
{'_id': 'mappy123', 'count': 24876}
{'_id': 'Eliyak', 'count': 18284}
{'_id': '42429', 'count': 15487}
{'_id': 'boeleman81', 'count': 14555}
{'_id': 'Ru55Ht', 'count': 12731}
{'_id': 'maxerickson', 'count': 12641}
{'_id': 'Forest Gregg', 'count': 12574}
{'_id': 'Steven Vance', 'count': 11968}
{'_id': 'andrewpmk', 'count': 11660}
{'_id': 'Chris Lawrence', 'count': 11064}
{'_id': 'jimjoe45', 'count': 10451}
{'_id': 'mkeller3', 'count': 9159}
{'_id': 'JWAddison', 'count': 8901}
{'_id': 'KristenK', 'count': 8552}
{'_id': 'fumo7887', 'count': 8333}
{'_id': 'BeatlesZeppelinRush', 'count': 7667}
{'_id': 'jbk123', 'count': 7593}
{'_id': 'GXCEBOTOSM', 'count': 7131}
{'_id': 'GeneBase', 'count': 6499}
{'_id': 'be9110', 'count': 6496}
{'_id': 'AndrewSnow', 'count': 6163}
{'_id': 'MikeNBulk', 'count': 6079}
{'_id': 'linuxUser16', 'count': 5494}
{'_id': 'dmcbride98', 'count': 5121}
{'_id': 'MikeN', 'count': 5098}
{'_id': '1bk100', 'count': 4759}
{'_id': 'zephyr', 'count': 4755}
{'_id': 'Gone', 'count': 4587}
{'_id': 'sargas', 'count': 4437}
{'_id': 'richlv', 'count': 4289}
{'_id': 'DaveHansenTiger', 'count': 3961}
{'_id': 'Cam4rd98', 'count': 3886}
{'_id': 'Gary Cox', 'count': 3437}
{'_id': 'Geogast', 'count': 3373}
{'_id': 'dcs', 'count': 3352}
{'_id': 'Brian Clark', 'count': 3326}
{'_id': 'California Bear', 'count': 3018}
{'_id': 'NHD edits', 'count': 2994}
{'_id': 'StellanL', 'count': 2934}
{'_id': 'Ivan Komarov', 'count': 2880}
{'_id': 'Blue Nacho', 'count': 2848}
{'_id': 'Mythdraug', 'count': 2799}
{'_id': 'C_H', 'count': 2758}
{'_id': 'bruck4', 'count': 2721}
```

```
{'_id': 'TMLutas', 'count': 2690}
{'_id': 'mattbierner', 'count': 2665}
{'_id': 'rcpax', 'count': 2653}
{'_id': 'BenUWebmaster', 'count': 2607}
{'_id': 'Lart', 'count': 2573}
{'_id': 'Brian@Brea', 'count': 2523}
{'_id': 'gxceb0t', 'count': 2440}
{'_id': 'Matthew Truch', 'count': 2438}
{'_id': 'blahedo', 'count': 2124}
{'_id': 'Rusty388', 'count': 2043}
{'_id': 'Mirro', 'count': 2042}
{'_id': 'fredr', 'count': 1870}
{'_id': 'ocotillo', 'count': 1863}
{'_id': 'Apoxol', 'count': 1760}
{'_id': 'Czech', 'count': 1755}
{'_id': 'eric22', 'count': 1744}
{'_id': 'Jim Grisham', 'count': 1714}
{'_id': 'RalfZ', 'count': 1651}
{'_id': 'raykendo', 'count': 1648}
{'_id': 'rolandg', 'count': 1616}
{'_id': 'D!zzy', 'count': 1581}
{'_id': 'ksturm2', 'count': 1576}
{'_id': 'MGH', 'count': 1525}
{'_id': 'chris983', 'count': 1476}
{'_id': 'Jim Mauck', 'count': 1441}
{'_id': 'VE6SRV', 'count': 1440}
{'_id': 'SmallR2002', 'count': 1384}
{'_id': 'Derick Rethans', 'count': 1341}
{'_id': 'newscientist', 'count': 1321}
{'_id': 'OSMF Redaction Account', 'count': 1261}
{'_id': '1i3n3', 'count': 1238}
{'_id': 'BobM', 'count': 1187}
{'_id': 'RetiredInNH', 'count': 1178}
{'_id': 'Phil D Basket', 'count': 1170}
{'_id': 'debutterfly', 'count': 1160}
{'_id': 'PhQ', 'count': 1153}
{'_id': 'kollokollo', 'count': 1132}
{'_id': 'Dylan Semler', 'count': 1123}
{'_id': 'elektrikshoos', 'count': 1103}
{'_id': 'Scott Usher', 'count': 1087}
{'_id': 'g246020', 'count': 1050}
{'_id': 'nwscfox', 'count': 1026}
{'_id': 'bobws', 'count': 938}
{'_id': 'jvg312', 'count': 914}
{'_id': 'fredjunod', 'count': 909}
{'_id': 'robgeb', 'count': 906}
{'_id': 'Jeremy', 'count': 891}
{'_id': '0Schluter', 'count': 872}
{'_id': 'vkungys', 'count': 854}
{'_id': 'DoubleA', 'count': 835}
{'_id': 'Sarutobi', 'count': 804}
{'_id': 'Cheesehead Dave', 'count': 782}
{'_id': 'crex', 'count': 746}
{'_id': 'PeterIto', 'count': 719}
{'_id': 'amillar', 'count': 712}
{'_id': 'phobie', 'count': 711}
{'_id': 'encleadus', 'count': 703}
{'_id': 'cluening', 'count': 693}
{'_id': 'JaapK', 'count': 685}
{'_id': 'CHAINJOJ', 'count': 666}
{'_id': 'DGlow', 'count': 638}
{'_id': 'matthieun', 'count': 635}
{'_id': 'geostone', 'count': 632}
{'_id': 'davidearl', 'count': 622}
{'_id': 'RoadGeek_MD99', 'count': 599}
{'_id': 'asdf1234', 'count': 588}
```

```
{'_id': 'Phil Scherer', 'count': 585}
{'_id': 'Andrew Fish', 'count': 574}
{'_id': 'homeslice60148', 'count': 573}
{'_id': 'smllyons77', 'count': 572}
{'_id': 'cdelacruz', 'count': 569}
{'_id': 'nerfer', 'count': 553}
{'_id': 'TorhamZed', 'count': 549}
{'_id': 'alexz', 'count': 526}
{'_id': 'becw', 'count': 523}
{'_id': 'dunduk', 'count': 517}
{'_id': 'bitslab-diaz', 'count': 508}
{'_id': 'BrianKiwi', 'count': 500}
{'_id': 'ChrisZontine', 'count': 499}
{'_id': 'hogrod', 'count': 489}
{'_id': 'Davio', 'count': 477}
{'_id': '!i!', 'count': 475}
{'_id': 'dcat', 'count': 461}
{'_id': 'bitslab', 'count': 460}
{'_id': 'Dennis McClendon', 'count': 445}
{'_id': 'fitzsimons', 'count': 437}
{'_id': 'MacDude72', 'count': 428}
{'_id': 'Mark Gray', 'count': 427}
{'_id': 'mvexel', 'count': 425}
{'_id': 'wotaskd', 'count': 424}
{'_id': 'stucki1', 'count': 420}
{'_id': 'Voyeur', 'count': 419}
{'_id': 'dchiles', 'count': 417}
{'_id': 'randomjunk', 'count': 415}
{'_id': 'Squirrel1982', 'count': 413}
{'_id': 'Milliams', 'count': 407}
{'_id': 'cassini83', 'count': 406}
{'_id': 'Mattsloomba', 'count': 395}
{'_id': 'HolgerJeromin', 'count': 384}
{'_id': 'neuhaustr', 'count': 379}
{'_id': 'iarspider', 'count': 374}
{'_id': 'nicberry', 'count': 368}
{'_id': 'FrViPofm', 'count': 364}
{'_id': 'Minh Nguyen', 'count': 364}
{'_id': 'da_gibb', 'count': 359}
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按照 amenity 设施分类查看提交了多少种设施。由于插入数据中有多种类型，因此可看到没有 amenity 标签属性的数据最多，其次是公园 6881 次， place_of_worship 理解为教堂等 4314 次，学校 3389 次。

```
In [12]: print("-----根据amenity统计设施次数-----")
-----")
rs= db.aggregate([
    {"$group": {"_id": "$amenity", "count": {"$sum": 1}}}, {"$sort": {"count": -1}}
])
for doc in rs:
    pprint.pprint(doc)
```

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```

按照 amenity =school 提交过的全部学校名称，大部分学校都是唯一提交，有些学校被多个用户或者多次提交数据中。芝加哥全部的学校不区分小初高共有2839所，名称中有middle默认为中学，共有140所。其他学校经对数据抽样常看没有特定规律能够识别是小学或者高中

```
In [13]: print("-----根据amenity=school统计设施次数-----")
-----)

rs= db.aggregate([
    {"$match": {"amenity": "school"}},
    {"$group": {"_id": "$name", "count": {"$sum": 1}}},
    {"$sort": {"count": -1}}
])

cnt=0
for doc in rs:
    pprint.pprint(doc)
    cnt+=1

print("共有学校 "+str(cnt) +" 所")

rs= db.aggregate([
    {"$match": {"amenity": "school", "name": re.compile("middle", re.IGNORECASE)}},
    {"$group": {"_id": "$name", "count": {"$sum": 1}}},
    {"$sort": {"count": -1}}
])

cnt=0
for doc in rs:
    pprint.pprint(doc)
    cnt+=1

print("中学共有 "+str(cnt)+" 所")
```

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共有学校 2839 所
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```
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{'_id': 'Willowcreek Middle School', 'count': 1}  
{'_id': 'Troy Middle School', 'count': 1}
```

中学共有 140 所

middle学校数据经由以下24名用户提交，最多提交次数83次，大部分都提交1个条。数据贡献集中在'iandeess' 与 'Umbugbene'.针对用户iandeess进行分析，得知该用户在各类数据节点都有贡献，贡献度最高的是完善了39483个node节点数据，并且提交了1925条学校信息和自行车出租(bicycle_rental)信息。以上三项是该用户在芝加哥开放数据中贡献最多的部分

```
In [14]: print("-----根据amenity=school, 统计提交人情况统计设施次数-----  
-----")
```

```
rs= db.aggregate([  
    {"$match": {"amenity": "school", "name": re.compile("middle", re.IGNORECASE)}},  
    {"$group": {"_id": "$ndinfo.user", "count": {"$sum": 1}}},  
    {"$sort": {"count": -1}}  
])  
  
cnt=0  
for doc in rs:  
    pprint.pprint(doc)  
    cnt+=1  
  
print("共有 "+str(cnt)+" 名用户提交")
```

```
-----根据amenity=school, 统计提交人情况统计设施次数-----
```

```
{'_id': 'iandees', 'count': 83}  
{'_id': 'Umbugbene', 'count': 29}  
{'_id': 'mpinnau', 'count': 5}  
{'_id': 'Kristian M Zoerhoff', 'count': 5}  
{'_id': 'Sundance', 'count': 3}  
{'_id': 'bbmiller', 'count': 1}  
{'_id': 'GXCEBOTOSM', 'count': 1}  
{'_id': 'TMLutas', 'count': 1}  
{'_id': 'Drew2324', 'count': 1}  
{'_id': 'OSMF Redaction Account', 'count': 1}  
{'_id': 'JaapK', 'count': 1}  
{'_id': 'Eliyak', 'count': 1}  
{'_id': 'Steven Vance', 'count': 1}  
{'_id': 'mappy123', 'count': 1}  
{'_id': 'Geo_Liz', 'count': 1}  
{'_id': 'patester24', 'count': 1}  
{'_id': '42429', 'count': 1}  
{'_id': 'BeatlesZeppelinRush', 'count': 1}  
{'_id': 'DaBunny', 'count': 1}  
{'_id': 'lgoughenour', 'count': 1}  
{'_id': 'Thyais Meade', 'count': 1}  
{'_id': 'JWAddison', 'count': 1}  
{'_id': 'jbk123', 'count': 1}  
{'_id': 'Forest Gregg', 'count': 1}
```

```
共有 24 名用户提交
```

```
In [15]: print("-----根据user=iandees, 统计提交人情况统计设施次数-----")
-----)

rs= db.aggregate([
    {"$match": {"ndinfo.user": "iandees"}},
    {"$group": {"_id": "$tagtype", "count": {"$sum": 1}}},
    {"$sort": {"count": -1}}
])

cnt=0
for doc in rs:
    pprint.pprint(doc)
    cnt+=1

print("iandees在 "+str(cnt)+" 类节点提交数据\r\n\r\n")

rs= db.aggregate([
    {"$match": {"ndinfo.user": "iandees"}},
    {"$group": {"_id": "$amenity", "count": {"$sum": 1}}},
    {"$sort": {"count": -1}}
])

cnt=0
for doc in rs:
    pprint.pprint(doc)
    cnt+=1

print("iandees在 "+str(cnt)+" 种amenity设施种类下提交")
```

-----根据user=iandees, 统计提交人情况统计设施次数-----

```
{'_id': 'node', 'count': 39483}  
'_id': 'way', 'count': 3435}  
'_id': 'relation', 'count': 7}
```

iandees在 3 类节点提交数据

```
{'_id': None, 'count': 39683}  
'_id': 'school', 'count': 1925}  
'_id': 'bicycle_rental', 'count': 298}  
'_id': 'grave_yard', 'count': 206}  
'_id': 'restaurant', 'count': 153}  
'_id': 'fast_food', 'count': 151}  
'_id': 'place_of_worship', 'count': 121}  
'_id': 'post_office', 'count': 87}  
'_id': 'parking', 'count': 72}  
'_id': 'hospital', 'count': 61}  
'_id': 'cafe', 'count': 26}  
'_id': 'bank', 'count': 21}  
'_id': 'pub', 'count': 20}  
'_id': 'fuel', 'count': 19}  
'_id': 'pharmacy', 'count': 10}  
'_id': 'bicycle_parking', 'count': 8}  
'_id': 'post_box', 'count': 7}  
'_id': 'bar', 'count': 6}  
'_id': 'gym', 'count': 5}  
'_id': 'bench', 'count': 5}  
'_id': 'parking_entrance', 'count': 4}  
'_id': 'fire_station', 'count': 3}  
'_id': 'car_wash', 'count': 3}  
'_id': 'theatre', 'count': 3}  
'_id': 'car_sharing', 'count': 3}  
'_id': 'veterinary', 'count': 2}  
'_id': 'insurance', 'count': 2}  
'_id': 'charging_station', 'count': 2}  
'_id': 'dentist', 'count': 2}  
'_id': 'library', 'count': 2}  
'_id': 'car_rental', 'count': 2}  
'_id': 'kindergarten', 'count': 2}  
'_id': 'toilets', 'count': 1}  
'_id': 'clinic', 'count': 1}  
'_id': 'ice_cream', 'count': 1}  
'_id': 'dance_theater', 'count': 1}  
'_id': 'hookah_lounge', 'count': 1}  
'_id': 'auto_impound', 'count': 1}  
'_id': 'spa', 'count': 1}  
'_id': 'telephone', 'count': 1}  
'_id': 'atm', 'count': 1}  
'_id': 'shop', 'count': 1}  
'_id': 'cinema', 'count': 1}
```

iandees在 43 种amenity设施种类下提交

项目参考说明

历史学生完成的优秀案例

https://github.com/baumanab/udacity_mongo_github/tree/master/final_project
(https://github.com/baumanab/udacity_mongo_github/tree/master/final_project)

数据内存占用的性能评价

<https://pycoders-weekly-chinese.readthedocs.io/en/latest/issue6/processing-xml-in-python-with-element-tree.html>
(<https://pycoders-weekly-chinese.readthedocs.io/en/latest/issue6/processing-xml-in-python-with-element-tree.html>)

数据处理查询的技能点,包括mongo,xml处理形式

<https://stackoverflow.com/search?q=python+pymongo> (<https://stackoverflow.com/search?q=python+pymongo>)
<https://stackoverflow.com/questions/tagged/python+xml+et> (<https://stackoverflow.com/questions/tagged/python+xml+et>)