链滴

利用MongoDB/MySQL计算附件人坐标

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原文链接：https://ld246.com/article/1471936324721
来源网站：链滴

eee also:

http://blog.csdn.net/lynnlovemin/article/details/51880261

http://www.cnblogs.com/zflinux21/archive/2012/02/07/2341428.html

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sql语句查询经纬度范围

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`create table x (name varchar(32), x decimal(9,6), y decimal(9,6));

INSERT INTO x（name,x,y）VALUES ('地点1', 39.895496,116.347996);

INSERT INTO x（name,x,y）VALUES ('中心点', 39.876739 , 116.396574) ;

INSERT INTO x（name,x,y）VALUES ('地点2', 39.884790 , 116.389644) ;

`

查询离“中心点”2公里范围内的坐标。

SELECT

name,x,y,

round(6378.1382asin(sqrt(pow(sin((39.876739pi()/180-xpi()/180)/2),2) + cos(39.876739pi()/180) os(xpi()/180) pow(sin((116.396574 * pi()/180- y * pi()/180)/2),2)))*1000) distance

FROM x

WHERE

(y between 116.396574 - 10 / 111.12 and 116.396574 + 10 / 111.12) -- 先缩小查询范围

and (x between 39.876739 - 10 / 111.12 and 39.876739 + 10 / 111.12) -- 先缩小查范围

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mongodb 查询地理位置

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db.x.save({ "point":"广安门桥" , "xy": [116.347996 , 39.895496] })

db.x.save({ "point":"中海地产" , "xy": [116.396574 , 39.876739] })

db.x.save({ "point":"陶然亭地铁" , "xy": [116.389644 , 39.884790] })

db.x.ensureIndex({"xy":"2d"},{"min":-180,"max":180})

1)标准查询, 为地球经纬度查询内置;

参数一为查询条件利用$near查找附近,

参数二$maxDistance为经纬弧度（1° latitude = 111.12 kilometers）即 1/111.12，表示查找附近公里。

```
db.x.find({  "xy" :{ near : [ 116.396574 , 39.876739 ] , maxDistance : 1 /111.12} })
```

工具

1. 计算两点间距离

http://www.storyday.com/wp-content/uploads/2008/09/latlung_dis.html

2. 从百度地图取得经纬度

http://api.map.baidu.com/lbsapi/getpoint/index.html