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Question[Justin Wilson](#) · Dec 8, 2018

## Cannot Query on Field in IRIS

I have a persistent class that represents cities across the United States. It is below, but basically has a City Id, Name, Lat, Lon and a few other unimportant fields for this issue. Anytime I attempt to query on the Latitude or Longitude it immediately returns no results. My first thought was that it was a casting issue so I tried casting both sides to floats, ints, even strings and in all cases it immediately comes back with no results. I then decided to cast it to a string and attempt a like statement thinking it might be something about how floats are handled, but still no joy. Any ideas on why I cannot query on these fields? More details are below.

```
Property CityId As %Library.Integer;  
Property City As %Library.String(MAXLEN=500);  
Property State As %Library.String(MAXLEN=2);  
Property Country As %Library.String(MAXLEN=500);  
Property Longitude As %Library.Float;  
Property Latitude As %Library.Float;  
Property USCRNName As %Library.String;  
Property Status As %Integer;  
Property DateRecAdded As %Library.DateTime [InitialExpression = { $ZDT($SYSTEM.Util.U  
TCToLocalWithZTIMEZONE($ZTIMESTAMP), 3, 1, 0) }];
```

```
Index CityId ON CityId;  
Index State ON State;  
Index Longitude ON Longitude;  
Index Latitude ON Latitude;  
Index Status On Status;
```

### Sample Data

```
SELECT CityId, Latitude, Longitude  
FROM MML.Cities
```

```
4070245 31.21073 -85.484657  
4344544 31.11685 -93.183502  
4215307 31.313 -81.55899  
5285039 31.386209 -110.288139  
4673179 31.40266 -98.081139  
4047656 34.037609 -94.107697  
5493998 34.58979 -105.28611  
5815135 47.500118 -120.501472  
5391891 34.106682 -117.806732  
4056099 31.41683 -86.000221
```

Knowing 31.21073 is a valid Latitude I try the following query

```
SELECT CityId, Latitude, Longitude  
FROM MML.Cities  
WHERE Latitude = 31.21073
```

### No results

```
SELECT CityId, Latitude, Longitude  
FROM MML.Cities
```

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```
WHERE CAST(Latitude as Float) = CAST(31.21073 AS Float)
```

No results

```
SELECT CityId, Latitude, Longitude  
FROM MML.Cities  
WHERE SUBSTRING(Latitude, 0, 3) = 31
```

No Results

```
SELECT CityId, Latitude, Longitude  
FROM MML.Cities  
WHERE CAST(SUBSTRING(Latitude, 0, 3) as Integer) = 31
```

No Results

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