map returns 0 for existing keys if sqlserver driver is used

Asked 4 years, 11 months ago Modified 4 years, 11 months ago Viewed 54 times

0

I have this code which works as intended as long as I use sqlite3 driver. When I switch to sqlserver, somehow, the map which clearly contains values returns 0 for each key.

```
log.Println(current)
for abbr, rate := range fetched.Quotes {
    abbr = abbr[3:len(abbr)]
    log.Println(abbr, current[abbr])
    if c, ok := current[abbr]; ok {
    // programm does not reach this with sqlsever driver
    }
}
```

I added these log statements to test.

sqlite (https://github.com/mattn/go-sqlite3)

```
map[AED:3.67 ARS:44.31 AUD:1.46 BGN:1.77 BRL:3.83 CAD:1.31 CHF:0.99 CNY:6.9
COP:3326.15 CRC:571.81 CZK:23 DOP:51.1 EGP:16.28 EUR:0.9 GBP:0.82 HKD:7.83
HUF:287.01 IDR:14179 INR:69.2 JMD:135.63 JOD:0.71 JPY:107.7 KRW:1162.6
MUR:36.25 MXN:18.85 MYR:4.13 NZD:1.5 PHP:51.71 PLN:3.83 QAR:3.64 RON:4.28
SAR:3.75 SDG:45.09 SEK:9.5 SGD:1.35 THB:30.66 TND:2.88 TWD:31.05 USD:1
UYU:34.65 VND:23291.5]
2019/12/25 11:42:58 XAU 0
2019/12/25 11:42:58 XCD 0
2019/12/25 11:42:58 CHF 0.99
2019/12/25 11:42:58 ZAR 0
2019/12/25 11:42:58 AED 3.67
2019/12/25 11:42:58 BDT 0
2019/12/25 11:42:58 DKK 0
2019/12/25 11:42:58 MXN 18.85
...
```

sqlserver (https://github.com/denisenkom/go-mssqldb)

```
2019/12/25 11:44:12 map[AED   :3.67 ARS   :44.31 AUD   :1.46 BGN   :1.77 BRL
:3.83 CAD   :1.31 CHF   :0.99 CNY   :6.9 COP   :3326.15 CRC   :571.81 CZK   :23
DOP   :51.1 EGP
  :16.28 EUR   :0.9 GBP   :0.82 HKD   :7.83 HUF   :287.01 IDR   :14179 INR
:69.2 JMD   :135.63 JOD   :0.71 JPY   :107.7 KRW   :1162.6 MUR   :36.25 MXN
:18.85 MYR   :4.13 NZD   :1.5 PHP   :51.71 PLN   :3.83 QAR   :3.64 RON   :4.28
SAR   :3.75 SDG   :45.09 SEK   :9.5 SGD   :1.35 THB   :30.66 TND   :2.88 TWD
:31.05 USD   :1 UYU   :34.65 VND   :23291.5]
2019/12/25 11:44:12 KHR 0
2019/12/25 11:44:12 MDL 0
```

```
2019/12/25 11:44:12 AED 0
2019/12/25 11:44:12 MXN 0
2019/12/25 11:44:12 VUV 0
2019/12/25 11:44:12 MWK 0
2019/12/25 11:44:12 DOP 0
...
```

So for some strange reason, this map which contains the keys as logged does return 0 for everything.

Here are the 2 functions that I use to fetch and query

```
func getFX(db *sql.DB) (fx map[string]float64, err error) {
    var (
        abbr string
        rate float64
    )
    rows, err := db.Query("SELECT Abbreviation, Conversion_Rate FROM
CURRENCY_TEST")
    if err != nil {
        return fx, err
    }
    defer rows.Close()
    fx = map[string]float64{}
    for rows.Next() {
        err := rows.Scan(&abbr, &rate)
        if err != nil {
            return fx, err
        }
        fx[abbr] = rate
    }
    err = rows.Err()
    if err != nil {
        return fx, err
    }
    return fx, nil
}
```

```
func _fetchFX(dummy string, dummy1 string) (Fetched, error) {
    jsn, _ := ioutil.ReadFile("data/current.json")
    payload := Fetched{}
    err := json.Unmarshal(jsn, &payload)
    return payload, err
}
```

If anyone has an idea why this is happening, please share your wisdom.

sql-server **go**

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edited Dec 25, 2019 at 12:04

asked Dec 25, 2019 at 11:56

The Fool

20.2k ● 6 ● 69 ● 119

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the second version seems to contain a lots of whitespace in the keys, which you remove in the loop, hence indexing into the map with the changed key should get you *nothing*.
– mkopriva Dec 25, 2019 at 12:03

oh yes, now I see it too. I didn't pay attention to that at all. Why is it bringing the stuff with so much whitespace? lol, I bet trimming this will fix the issue, its still weird. – The Fool Dec 25, 2019 at 12:05

my guess is, but i could be wrong, that you're using some constant length text type in the sqlserver db for the abbreviation column, something like `char(6)` in other dbs (don't know if sqlserver has something like that, never used it). – mkopriva Dec 25, 2019 at 12:08

and as side weirdness, I created the sqlite3 DB by fetching from the SQL server and inserting the values. So they should be 100% the same. – The Fool Dec 25, 2019 at 12:09

@mkopriva, makes sense, it says nvarchar(32) or nvarchar(6), I have both tables.
– The Fool Dec 25, 2019 at 12:10

1 Answer

Sorted by: Highest score (default)

1

As discussed in the comments, the sqlserver version is retrieving the `Abbreviation` with a lot of whitespace while in the sqlite version the abbr strings contain no whitespace. The whitespace seems to be caused by how the column's type is implemented by the sqlserver.

So you either have to change the column types so that they are more compatible with each other, or you can "normalize" the scanned abbr string to ensure that it is always formatted in the same way regardless of the RDBMS.

For example:

```
fx[strings.TrimSpace(abbr)] = rate
```

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answered Dec 25, 2019 at 12:42

mkopriva
38k ● 4 ● 70 ● 84