
Subject: SqlArray sorting

Posted by [jimlef](#) on Mon, 16 Jan 2023 22:20:12 GMT

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I have the following code:

```
arrCount.Appending(true).AllSorting();
```

It's made so simple LOL...

Sorting number columns, words etc looks good, but when I sort a date column as in the picture:

You can see the dates are not sorting correctly (this is in month day year format)?

Dates are stored in the db as unix epoch since 1970, and format correctly when displayed according to my local settings using the simple DateIntConvert. All I can think of is that the array control is treating them as strings, rather than dates, but I don't know how to correct this? A custom function that breaks them up, and sorts the segments? Or modifying the dateintconvert's output? I'm so confused ;)

```
arrCount.ColumnAt(0).SetConvert ( DateIntConvert() );
```

```
...
```

```
struct DateIntConvertCls : ConvertDate {  
    virtual Value Format(const Value& q) const;  
    virtual Value Scan(const Value& text) const;  
    virtual int Filter(int chr) const;
```

```
};
```

```
// From sql borrow.cpp example
```

```
Value DateIntConvertCls::Format(const Value& q) const
```

```
{  
    return IsNull(q) ? String() : ::Format(Date( 1970, 1, 1) + (int)q);  
}
```

```
// Modified from UPP source
```

```
Value DateIntConvertCls::Scan(const Value& text) const
```

```
{  
    const char *s;  
    Date date;  
    String txt = text;  
    if(txt.IsEmpty()) return (Date) Null;  
    s = StrToDate(date, txt);  
    if(s)  
        for(;;) {  
            if(IsDigit(*s))  
                break;
```

```
    if(*s == '\0')
        return date - Date(1970, 1, 1);
    s++;
}
return ErrorValue(t_("Invalid date !"));
}

int DateIntConvertCls::Filter(int chr) const
{
    return CharFilterDate(chr);
}

Convert& DateIntConvert()
{
    return Single<DateIntConvertCls>();
}
```

Anyone have an idea as to how to get this sorted out? ;)

Thank you!

Jim

File Attachments

1) [datesort.png](#), downloaded 108 times
