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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

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1) [datesort.png](#), downloaded 341 times

Date:▼
01/01/2008
01/01/2010
01/01/2013
01/01/2016
01/01/2019
01/01/2021
01/02/2004
01/02/2007
01/02/2009
01/02/2015
01/02/2018
01/03/2003
01/03/2006
01/03/2012
01/03/2014
01/03/2017
01/03/2020
01/03/2023
01/04/2005
01/04/2008
01/04/2011