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Subject: Date pasted in GridCtrl saved in sqlite. Problem and solution

Posted by [koldo](#) on Tue, 26 Aug 2008 20:05:53 GMT

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Hello all

I have found another problem and I propose you a solution.

The source of this is because when pasting in GridCtrl:

- From the GridCtrl, as it knows the type of the cells, the type of the Value of the cells is right
- From outside, as it does not know the type, all data are Values of type String

Using the standard SetDateScan there is no problem, but when changing it (for example SetDateScan("dmy")), when inserting or updating the row in GridCtrl through grid.WhenInsertRow() callback the function called:

```
SQL & ::Insert(MYTABLE)
(NAME, grid(NAME))
(DATE, grid(DATE));
grid(ID) = SQL.GetInsertedId();
```

goes wrong because although the date looks right in GridCtrl, it has been saved wrong in sqlite file.

Solution, not perfect but it works: I convert the Value String in a Value Date before inserting or updating in sqlite, so the last code would be:

```
SQL & ::Insert(MYTABLE)
(NAME, grid(NAME))
(DATE, FixDate(grid(DATE)));
grid(ID) = SQL.GetInsertedId();
```

where FixDate is defined:

```
Value FixDate(Value &val)
{
  if (!val.IsNull()) {
    if (!val.Is<Date>()) {
      Date d;
      StrToDate(d, val.ToString());
      return d;
    }
  }
  return val;
}
```

StrToDate cares of converting the String into a right Date considering the SetDateScan defined.

Comments?

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Subject: Re: Date pasted in GridCtrl saved in sqlite. Problem and solution  
Posted by [amrein](#) on Fri, 29 Aug 2008 18:18:14 GMT  
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I think the problem come from SQLite types support and from how the data is converted when it is saved (U++ bug):

<http://sqlite.org/datatype3.html>

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Subject: Re: Date pasted in GridCtrl saved in sqlite. Problem and solution  
Posted by [koldo](#) on Sat, 30 Aug 2008 13:14:28 GMT  
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Hello amrein

I do not know if calling it a bug, but perhaps it is an improvement.  
When you add a column, for example:

```
myGrid.AddColumn(BIRTHDAY, t_("Birthday")).Edit(birthdate);
```

GridCtrl does not know the type, so it can only manage the data as Value(String).

Perhaps it would be possible to do a kind of SQLGridCtrl class that:

- You could include the database table, so it would know about the type of every column
- It would include inside the functions LoadTable, InsertRow, UpdateRow and RemoveRow.

Well, a little soon for me and perhaps it is a thing that unodgs has to decide.

Best regards

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Subject: Re: Date pasted in GridCtrl saved in sqlite. Problem and solution  
Posted by [unodgs](#) on Sat, 30 Aug 2008 19:22:37 GMT  
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koldo wrote on Sat, 30 August 2008 09:14Hello amrein

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When you add a column, for example:

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Perhaps it would be possible to do a kind of SQLGridCtrl class that:

- You could include the database table, so it would know about the type of every column

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Well, a little soon for me and perhaps it is a thing that unodgs has to decide.

Best regards

I have added WhenPasteCell<int row, int col, Value& v> callback. It's called when you paste data from clipboard. If you create your own method and assign it to this callback you will be able to return back the correct value (with correct type). In Excel scenario that means Value(String) will be passed to the callback method. Now you know what type of column number "col" is and you know how to convert String to this value. Maybe better will be example :

```
void MyConventer(int row, int col, Value& v)
{
  if(col == 0) //int
  {
    v = StrToInt(v);
  }
  else if(col = 10)
  {
    v = DblToInt(v);
  }
}
grid.WhenPasteCell = THISBACK(MyConventer);
```

I think this will help in your "clipboard problem"

Regarding SqlGridCtrl. It's a good idea but it will be part of GridCtrl 2.0. Generally 2.0 will be much more sql related (of course I'll try to do my best to save backward compatibility).

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Subject: Re: Date pasted in GridCtrl saved in sqlite. Problem and solution

Posted by [koldo](#) on Sun, 31 Aug 2008 18:01:45 GMT

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For me it is fine. Thank you!

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