

## Database - Bug #6852

### Problem with datetime-tz literal string conversion.

10/18/2022 11:21 AM - Igor Skornyakov

<b>Status:</b> New	<b>Start date:</b> 10/18/2022
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b>	
<b>billable:</b> No	<b>case_num:</b>
<b>vendor_id:</b> GCD	
<b>Description</b>	
Related to Database - Feature #6453: temp-table features <b>Closed</b>	

### History

#### #1 - 10/18/2022 11:22 AM - Igor Skornyakov

The field definition

```
FIELD fdatetime-tz1 as datetime-tz initial "10/17/2022 13:47:48.426+03:00" label "datetime-tz1"
```

is converted to

```
@Property(id = 14, name = "fdatetimeTz1", column = "fdatetime_tz1", legacy = "fdatetime-tz1", format = "99/99/9999 HH:MM:SS.SSS+HH:MM", initial = "10/17/2022", label = "datetime-tz1", order = 130)
public datetimetz getFdatetimeTz1();
```

As we can see the time part is lost.

In the .parser file I see:

```
define field [DEFINE_FIELD]:17179869551 @0:0
  fdatetime-tz1 [SYMBOL]:17179869552 @17:11
  as [KW_AS]:17179869554 @17:25
    datetime-tz [KW_DATE_TZ]:17179869556 @17:28
  initial [KW_INIT]:17179869558 @17:40
    10/17/2022 [DATE_LITERAL]:17179869560 @17:48
  label [KW_LABEL]:17179869562 @17:80
    "datetime-tz1" [STRING]:17179869564 @17:86
```

Here, we see DATE\_LITERAL instead of DATETIME\_TZ\_LITERAL.

According to Greg this can be caused by a bug in initializer\_constant in progress.g, more specifically at a relex() step.

As far as I understand relex() cannot properly and reliably detect the literal type since it does not consider vtype at all. For example 4GL accepts "10/17/2022 13:47:48.426" as INITIAL value for datetime-tz with session timezone but how relex() can decide if it is DATETIME\_TZ\_LITERAL or DATE\_LITERAL? Right now it treats it as DATE\_LITERAL.

**#2 - 10/18/2022 11:22 AM - Igor Skornyakov**

- Related to Feature #6453: temp-table features added