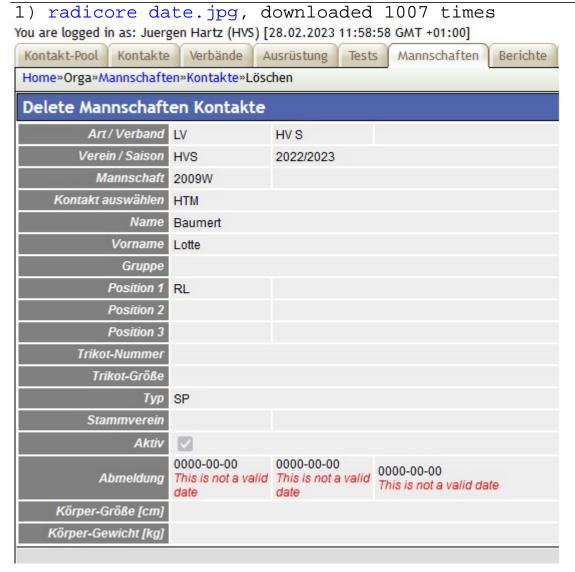## Subject: Error with date field
Posted by htManager on Tue, 28 Feb 2023 11:01:47 GMT
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Hi Tony,

I have one more problem. If I want to delete a record with date columns, I get the error that the values aren't valid. See attached picture. The date columns are empty/null in dictionary and this is allowed. The value 0000-00-00 is automatically inserted.

File Attachments
1) radicore date.jpg, downloaded 1007 times

You are logged in as: Juergen Hartz (HVS) [28.02.2023 11:58:58 GMT +01:00]

| Kontakt-Pool | Kontakte | Verbände | Ausrüstung | Tests | Mannschaften | Berichte |

Home»Orga»Mannschaften»Kontakte»Löschen

Delete Mannschaften Kontakte

Art / Verband	LV	HV S	
Verein / Saison	HVS	2022/2023	
Mannschaft	2009W		
Kontakt auswählen	HTM		
Name	Baumert		
Vorname	Lotte		
Gruppe			
Position 1	RL		
Position 2			
Position 3			
Trikot-Nummer			
Trikot-Größe			
Typ	SP		
Stammverein			
Aktiv	☑		
Abmeldung	0000-00-00 *This is not a valid date*	0000-00-00 *This is not a valid date*	0000-00-00 *This is not a valid date*
Körper-Größe [cm]			
Körper-Gewicht [kg]			

Subject: Re: Error with dictionary import
Posted by AJM on Tue, 28 Feb 2023 12:02:31 GMT
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That is because 0000-00-00 is not a valid date. You need to either change it to a valid date or change it to NULL.

Subject: Re: Error with dictionary import
Posted by htManager on Wed, 01 Mar 2023 17:30:20 GMT
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I thought that I did this in the database. See attached picture.

If I change the 0000-00-00 to NULL, I can delete the record. But if I insert a new record, the value 0000-00-00 for this date field will be generated automatically.

In data dictionary the value for NULL? is NULL and the value for Default is empty.

File Attachments
1) date null.jpg, downloaded 914 times

| | Anzeigen | Struktur | SQL | Suche | Einfügen | Exportieren | Importieren | |

#	Name	Typ	Kollation	Attribute	Null	Standard	Kommenta
☐	1 verbaende_art_id 🔑	varchar(5)	utf8_unicode_ci		Nein	*kein(e)*	
☐	2 verbaende_kuerzel 🔑	varchar(10)	utf8_unicode_ci		Nein	*kein(e)*	
☐	3 vereine_kuerzel 🔑	varchar(20)	utf8_unicode_ci		Nein	*kein(e)*	
☐	4 saison_id 🔑	varchar(10)	utf8_unicode_ci		Nein	*kein(e)*	
☐	5 mannschaften_id 🔑	varchar(10)	utf8_unicode_ci		Nein	*kein(e)*	
☐	6 user_id 🔑	varchar(16)	utf8_unicode_ci		Nein	*kein(e)*	
☐	7 user_seq_no 🔑	int(11)		UNSIGNED	Nein	*kein(e)*	
☐	8 rdcaccount_id 🔑🔑	int(10)		UNSIGNED	Nein	1	
☐	9 kontakt_ma_name	varchar(50)	utf8_unicode_ci		Nein	*kein(e)*	
☐	10 kontakt_ma_vorname	varchar(50)	utf8_unicode_ci		Ja	*NULL*	
☐	11 kontakt_ma_position_01	varchar(3)	utf8_unicode_ci		Ja	*NULL*	
☐	12 kontakt_ma_position_01_seq_no	tinyint(3)		UNSIGNED	Ja	*NULL*	
☐	13 kontakt_ma_position_02	varchar(3)	utf8_unicode_ci		Ja	*NULL*	
☐	14 kontakt_ma_position_02_seq_no	tinyint(3)		UNSIGNED	Ja	*NULL*	
☐	15 kontakt_ma_position_03	varchar(3)	utf8_unicode_ci		Ja	*NULL*	
☐	16 kontakt_ma_position_03_seq_no	tinyint(3)		UNSIGNED	Ja	*NULL*	
☐	17 kontakt_ma_position_rdcaccount_id	int(10)		UNSIGNED	Ja	*NULL*	
☐	18 kontakt_ma_trikot_no	smallint(2)			Ja	*NULL*	
☐	19 kontakt_ma_trikot_groesse	varchar(20)	utf8_unicode_ci		Ja	*NULL*	
☐	20 kontakt_ma_groesse	float			Ja	*NULL*	
☐	21 kontakt_ma_gewicht	decimal(6,3)		UNSIGNED	Ja	*NULL*	
☐	22 kontakt_ma_im_verein_seit	date			Ja	*NULL*	
☐	23 kontakt_ma_vertrag_bis	date			Ja	*NULL*	

It was possible in earlier versions of MySQL to set the value '0000-00-00' as the default for date

columns, but this is no longer possible. Does the definition of this column in the Data Dictionary still show '0000-00-00' as the default value? If it does then you must clear it.

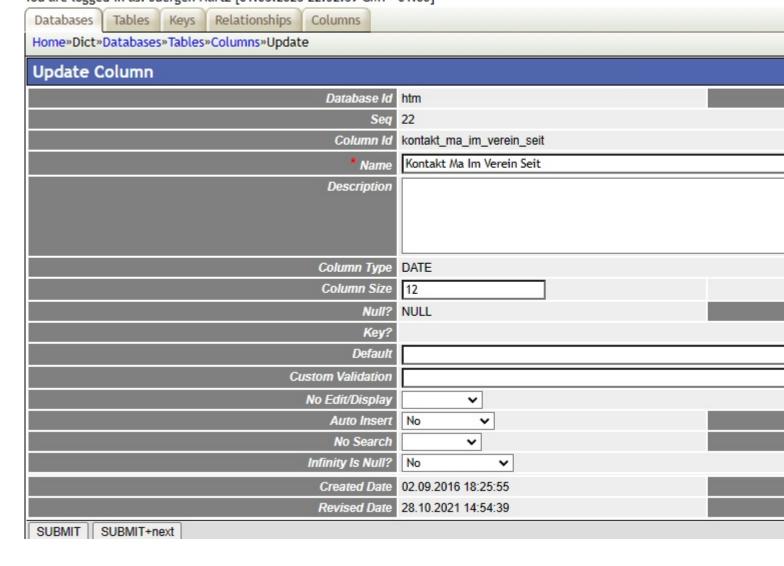## Subject: Re: Error with dictionary import
Posted by htManager on Wed, 01 Mar 2023 21:55:25 GMT
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In data dictionary isn't a value 0000-00-00. I attached a picture.

```
File Attachments
1) data dictionary date.jpg, downloaded 920 times
```

You are logged in as: Juergen Hartz [01.03.2023 22:52:39 GMT +01:00]

| Databases | Tables | Keys | Relationships | Columns |

Home»Dict»Databases»Tables»Columns»Update

Update Column

Database Id	htm
Seq	22
Column Id	kontakt_ma_im_verein_seit
* Name	Kontakt Ma Im Verein Seit
Description	
Column Type	DATE
Column Size	12
Null?	NULL
Key?	
Default	
Custom Validation	
No Edit/Display	
Auto Insert	No
No Search	
Infinity Is Null?	No
Created Date	02.09.2016 18:25:55
Revised Date	28.10.2021 14:54:39

| SUBMIT | SUBMIT+next |

Subject: Re: Error with dictionary import
Posted by AJM on Thu, 02 Mar 2023 09:42:22 GMT
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What does the <table>.dict.inc file contain? There is nothing in the framework code which would insert '0000-00-00' into a date field, so you need to step through with your debugger to see where it happens.

Subject: Re: Error with dictionary import
Posted by htManager on Thu, 02 Mar 2023 17:22:00 GMT
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That's what is in dict.inc:

```
$fieldspec['kontakt_ma_im_verein_seit'] = array('type' => 'date',
                                     'size' => 12);

$fieldspec['kontakt_ma_vertrag_bis']    = array('type' => 'date',
                                     'size' => 12);
```

I will do so, stepping through with the debugger.

Subject: Re: Error with dictionary import
Posted by AJM on Fri, 03 Mar 2023 09:42:21 GMT
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You might want to try searching through your code looking for where '0000-00-00' is actually mentioned.

Subject: Re: Error with dictionary import
Posted by htManager on Tue, 07 Mar 2023 23:16:37 GMT
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I stepped through the code with my debugger but I didn't find an expression 0000-00-00. I created a new table with ust a primary key and a field test_datum with type date. I had the same behaviour.

When debugging, I had a message in the variables that a record was inserted in the table. When I looked in the database, I saw the new record with value 0000-00-00. If I delete the value 0000-00-00, the record will be updated without problem and the value is NULL/empty.

Where else can I search?

Subject: Re: Error with date field
Posted by htManager on Thu, 23 Mar 2023 14:51:10 GMT
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I created a new table with the following specifications:

$fieldspec['id'] = array('type' => 'integer', 'type_native' => 'int','size' => 10, 'minvalue' => -2147483648, 'maxvalue' => 2147483647, 'pkey' => 'y', 'required' => 'y');
$fieldspec['test_datum'] = array('type' => 'date', 'size' => 12);

// primary key details
$this->primary_key = array('id');

When I insert a new record with my application, the line 1.631 in dml.mysqli.class.inc: $result = mysqli_query($this->dbconnect, $this->query); is responsible for inserting the record in my database with the right id and the value 0000-00-00 in the field 'test_datum', if I leave this empty in my screen. I examined the database table before and after executing this line. Before, the record wasn't visible/inserted, afterwards it was.

These variables shows my debugger before executing the line:

$this->query = INSERT INTO test_datum SET `id`='2', `test_datum`=''

client_info = mysqlnd 8.2.0
server_info = 10.4.27-MariaDB

Where else can I search for the problem? My debugger doesn't show any further information. I only can see the inserted record in the database table.

Subject: Re: Error with date field
Posted by AJM on Fri, 24 Mar 2023 09:28:46 GMT
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Nowhere in the framework does is set any date fields to the value '0000-00-00'. I have found two 'IF' statements in std.datevalidation.class.inc at line # 893 and std.validation.class.inc at line # 575, but that's all.

What is your CREATE TABLE script for thois table?

You could also turn on SQL logging for the task which adds records to this table. See Update Task for details.

Subject: Re: Error with date field
Posted by htManager on Fri, 24 Mar 2023 15:40:39 GMT
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What do you mean with CREATE TABLE script?

In the sql log file seems to be a correct statement:

SELECT count(*) FROM test_datum WHERE id='4' =>[S=16:04:04.68586, F=16:04:04.68612, E=0.00026]
INSERT INTO test_datum SET `id`='4', `test_datum`='' =>Count=1 [S=16:04:04.68661, F=16:04:04.68688, E=0.00026]

I changed the storage engine in phpMyAdmin from MyIsam to InnoDB without success.

Subject: Re: Error with date field
Posted by AJM on Sat, 25 Mar 2023 09:27:25 GMT
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The CREATE TABLE script is the script which you used to create the table in your database. Every table has one. You can use phpMyAdmin to export these details.

You need to log the SQL query which creates the record with '0000-00-00' in its date field. If the query generated by the framework does not contain this value then it can only be inserted by MySQL.

Subject: Re: Error with date field
Posted by htManager on Sat, 25 Mar 2023 10:58:21 GMT
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I made a dump of the table and got a sql file. I added this script (hopefully the right one).

As far as I see, the problem is obviously a SQL problem.

Executing "INSERT INTO test_datum SET `id`='4', `test_datum`='';" in phpMyAdmin results in the same behaviour. The date field has the value '0000-00-00'.

Do I have to change the sqlmode?

File Attachments
1) test_datum.sql, downloaded 230 times

Subject: Re: Error with date field
Posted by htManager on Sat, 25 Mar 2023 12:02:47 GMT
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If I change the sql_mode to "
STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,NO_ENGINE_SUB STITUTION
" I get the error 1292. Value '' for field test_datum is wrong.

Subject: Re: Error with date field
Posted by AJM on Sun, 26 Mar 2023 08:16:45 GMT
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That is because you are trying to enter an empty string into a date field. You must either supply a valid date or NULL.

Subject: Re: Error with date field
Posted by htManager on Sun, 26 Mar 2023 09:29:50 GMT
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Yes, I know. I thought that if I set NULL as default in the table structure, this would be made automatically. I attached a picture of my table structure.

If I execute "INSERT INTO test_datum SET `id`='4', `test_datum`=NULL" instead of "INSERT INTO test_datum SET `id`='4', `test_datum`=''" the record will be inserted correctly without "0000-00-00".

Is there a setting to handle a blank value '' explecitly as NULL?

File Attachments
1) Structure date.jpg, downloaded 910 times

Subject: Re: Error with date field
Posted by AJM on Mon, 27 Mar 2023 08:45:19 GMT
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No, there is not. If your CREATE TABLE script states "DEFAULT NULL" then if you do not supply a value in an INSERT statement then MySQL will use that default value instead. If you want to remove the value in an update then you must explcity set it to NULL, not ''.

Subject: Re: Error with date field
Posted by htManager on Mon, 27 Mar 2023 09:18:14 GMT
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I tried. I tried it in the _cm_pre_insertRecord() and in the _cm_post_insertRecord() method with

the following code:

```
if ($fieldarray['test_datum'] == '') {
    $fieldarray['test_datum'] = NULL;
}
```

Without success. The DBMS inserts '0000-00-00'.

The only way to handle this behaviour at the moment is to insert the record and then to delete the '0000-00-00' values manually.

This happens in my local xampp installation, but in my internet server installation as well.

It isn't obviously a Radicore problem. So I think I will wait for a new version of mysql ...

Subject: Re: Error with date field
Posted by AJM on Tue, 28 Mar 2023 08:40:56 GMT
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I would suggest that you ask this question in a MySQL forum. You might want to check the MySQL manual in The DATE, DATETIME, and TIMESTAMP Types where it says:
Quote:Invalid DATE, DATETIME, or TIMESTAMP values are converted to the "zero" value of the appropriate type ('0000-00-00' or '0000-00-00 00:00:00'), if the SQL mode permits this conversion. The precise behavior depends on which if any of strict SQL mode and the NO_ZERO_DATE SQL mode are enabled; see Section 5.1.11, "Server SQL Modes".

Subject: Re: Error with date field
Posted by htManager on Fri, 31 Mar 2023 16:49:12 GMT
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I posted the problem in the german MySQL forum but I didn't get an answer yet.

At the moment, I found a solution: I set the $fieldarray['foobar'] to '' in the _cm_pre_updateRecord() and _cm_pre_deleteRecord() methods. This works.

Subject: Re: Error with date field
Posted by AJM on Sat, 01 Apr 2023 08:50:33 GMT
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This is a temporary hack, not a proper solution. What SQL mode are you using in your MySQL server? You can check this with the following query:
SELECT @@SESSION.sql_mode

Subject: Re: Error with date field
Posted by htManager on Sat, 01 Apr 2023 13:00:57 GMT
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I use NO_ZERO_IN_DATE,NO_ZERO_DATE,NO_ENGINE_SUBSTITUTION

Subject: Re: Error with date field
Posted by AJM on Sun, 02 Apr 2023 08:43:53 GMT
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When you say Quote:I set the $fieldarray['foobar'] to '' in the _cm_pre_updateRecord() and _cm_pre_deleteRecord() methods does this mean that this date field already contains the value '0000-00-00'. If it does then you need to investigate where it is coming from. Is it coming from the database or the HTML form?

Subject: Re: Error with date field
Posted by htManager on Sun, 02 Apr 2023 09:29:49 GMT
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Yes, the date field already has the value '0000-00-00'.

I think it comes from the database. In phpMyAdmin the SQL command INSERT INTO test_datum SET `id`='4', `test_datum`='' results in the value '0000-00-00' and the command INSERT INTO test_datum SET `id`='4', `test_datum`= NULL results in a blank value.

Subject: Re: Error with date field
Posted by AJM on Mon, 03 Apr 2023 08:37:17 GMT
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That is because an empty string is being treated as an invalid date which is then being converted to '0000-00-00'. I have tried the same query on my PC and the query fails instead of inserting '0000-00-00'. You have two problems:

 Your code should not be trying to insert an empty string into a date field.
 The MySQL query should fail if you do.

Subject: Re: Error with date field
Posted by htManager on Mon, 03 Apr 2023 13:09:58 GMT
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In the past (php < 7 and mySQL < 8) inserting an empty value wasn't obviously a problem. Could this be a bug in mySQL?

How do you handle a date field which will only be used when a certain event occurs?

I can set the default value to '1000-01-01' or whatever to avoid the error messages of '0000-00-00'. And what I do not understand is, that after inserting the record and then deleting the values '0000-00-00', there is no problem and no error messages. The mySQL database has no problem with date fields with empty value ''.

Subject: Re: Error with date field
Posted by AJM on Tue, 04 Apr 2023 08:44:23 GMT
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If a date field is only valid when certain conditions are met then it should be nullable (not defined with NOT NULL). I am using MySQL version 8.0.32 with SQL_MODE set to ANSI_QUOTES,STRICT_TRANS_TABLES,STRICT_ALL_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,TRADITIONAL,NO_ENGINE_SUBSTITUTION and this prevents me from setting a date field to '' instead of NULL.

As I said in an earlier post, if you do not have NO_ZERO_IN_DATE,NO_ZERO_DATE set then inserting an invalid date (such as an empty string) MySQL will instead replace it with '0000-00-00'.

Subject: Re: Error with date field
Posted by htManager on Wed, 05 Apr 2023 13:48:54 GMT
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Thank you very much for fixing the problem. With the new version 2.26.0 everything works fine again.