ERROR ORACLE

ORA-01722: invalid number

***Looking for Solution***

Moodle 3.2.5 + Oracle Database 12c Standard Edition Release 12.1.0.2.0 - 64bit Production.

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# + Platform

1. We have installed Moodle 3.2.5. **+** Oracle Oracle Database 12c Standard Edition Release 12.1.0.2.0 - 64bit Production.
2. ORACLE Architecture.
3. OS: Red Hat Enterprise Linux Server release 6.7 (Santiago).
4. Database engine:  Oracle Database 12c Standard Edition Release 12.1.0.2.0 - 64bit Production.

# Problem

In the question creation (multiple choice) , the question is not created correctly, and throw the next error:

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**Debug info:** ORA-01722: invalid number

INSERT INTO dlquestion (category,qtype,createdby,name,parent,length,penalty,questiontext,questiontextformat,generalfeedback,generalfeedbackformat,defaultmark,stamp,timecreated) VALUES (:category,:qtype,:createdby,:name,:parent,:length,:penalty,:questiontext,:questiontextformat,:generalfeedback,:generalfeedbackformat,:defaultmark,:stamp,:timecreated) RETURNING id INTO :oracle\_id  
[array (  
'category' => '1',  
'qtype' => 'multichoice',  
'createdby' => '2',  
'name' => 'qwqwqw',  
'parent' => 0,  
'length' => 1,  
'penalty' => '0.3333333',  
'questiontext' => 'qwqw',  
'questiontextformat' => '1',  
'generalfeedback' => '',  
'generalfeedbackformat' => '1',  
'defaultmark' => 1,  
'stamp' => '[escuelavirtual.mintransporte.gov.co](http://escuelavirtual.mintransporte.gov.co/)+171207082224+7XJUbG',  
'timecreated' => 1512634944,  
)]  
Error code: dmlwriteexception

**Stack trace:**

* line 482 of /lib/dml/moodle\_database.php: dml\_write\_exception thrown
* line 277 of /lib/dml/oci\_native\_moodle\_database.php: call to moodle\_database->query\_end()
* line 1404 of /lib/dml/oci\_native\_moodle\_database.php: call to oci\_native\_moodle\_database->query\_end()
* line 1437 of /lib/dml/oci\_native\_moodle\_database.php: call to oci\_native\_moodle\_database->update\_record\_raw()
* line 94 of /question/type/multichoice/questiontype.php: call to oci\_native\_moodle\_database->update\_record()
* line 390 of /question/type/questiontypebase.php: call to qtype\_multichoice->save\_question\_options()
* line 264 of /question/question.php: call to question\_type->save\_question()

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The question go to the database but with errors, when we try preview the question, in the question bank, trhow the next error:

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**Can not find data record in database table qtype\_multichoice\_options.**

[More information about this error](http://docs.moodle.org/32/en/error/moodle/invalidrecord)

×**Debug info:** SELECT \* FROM {qtype\_multichoice\_options} WHERE questionid = :questionid  
[array (  
'questionid' => '44',  
)]  
Error code: invalidrecord

×**Stack trace:**

* line 1526 of /lib/dml/moodle\_database.php: dml\_missing\_record\_exception thrown
* line 1502 of /lib/dml/moodle\_database.php: call to moodle\_database->get\_record\_select()
* line 43 of /question/type/multichoice/questiontype.php: call to moodle\_database->get\_record()
* line 783 of /lib/questionlib.php: call to qtype\_multichoice->get\_question\_options()
* line 816 of /lib/questionlib.php: call to \_tidy\_question()
* line 575 of /question/engine/bank.php: call to get\_question\_options()
* line 333 of /cache/classes/loaders.php: call to question\_finder->load\_for\_cache()
* line 1444 of /cache/classes/loaders.php: call to cache->get()
* line 498 of /question/engine/bank.php: call to cache\_application->get()
* line 255 of /question/engine/bank.php: call to question\_finder->load\_question\_data()
* line 274 of /question/engine/bank.php: call to question\_bank::load\_question\_data()
* line 46 of /question/preview.php: call to question\_bank::load\_question()

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# About Oracle conditions

Database NLS parameters

PARAMETER VALUE CON\_ID

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NLS\_LANGUAGE AMERICAN 0

NLS\_TERRITORY COLOMBIA 0

NLS\_CURRENCY $ 0

NLS\_ISO\_CURRENCY COLOMBIA 0

NLS\_NUMERIC\_CHARACTERS ,. 0

NLS\_CALENDAR GREGORIAN 0

NLS\_DATE\_FORMAT DD/MM/RR 0

NLS\_DATE\_LANGUAGE AMERICAN 0

NLS\_CHARACTERSET AL32UTF8 0

NLS\_SORT BINARY 0

NLS\_TIME\_FORMAT HH12:MI:SSXFF AM 0

NLS\_TIMESTAMP\_FORMAT DD/MM/RR HH12:MI:SSXFF AM 0

NLS\_TIME\_TZ\_FORMAT HH12:MI:SSXFF AM TZR 0

NLS\_TIMESTAMP\_TZ\_FORMAT DD/MM/RR HH12:MI:SSXFF AM TZR 0

NLS\_DUAL\_CURRENCY $ 0

NLS\_NCHAR\_CHARACTERSET UTF8 0

NLS\_COMP BINARY 0

NLS\_LENGTH\_SEMANTICS BYTE 0

NLS\_NCHAR\_CONV\_EXCP FALSE 0

## **Others Oracle**

The Oracle RDBMS imposes a character length restriction on the identifiers of:

* name of the tables.
* fields (columns).
* Alias.

This maximum length is 30 characters, so if they are exceeded when executing the corresponding query, the DBMS returns the ORA-00972, so it will be enough to truncate the identifier or rename it to a shorter one to solve it.

**¿If you ask is it possible to change the character limit to a greater (or smaller) number such as 40? The answer is no.**

Oracle uses 30 bytes internally to store the identifiers of these relational elements, using one byte coding per character and can not be altered in any way by changing any parameter since it is part of the internal logic of the manager.

We have do changes in some fields in the Table DLQUESTION

# What we have done

**We change the datatype in two fields on the table (see next).**

Original TABLE

CREATE TABLE DLQUESTION

**(**

**ID NUMBER(10) NOT NULL,**

**CATEGORY NUMBER(10) DEFAULT 0 NOT NULL,**

**PARENT NUMBER(10) DEFAULT 0 NOT NULL,**

**NAME VARCHAR2(255 CHAR) DEFAULT ‘ ‘ NOT NULL,**

**QUESTIONTEXT CLOB NOT NULL,**

**QUESTIONTEXTFORMAT NUMBER(2) DEFAULT 0 NOT NULL,**

**GENERALFEEDBACK CLOB NOT NULL,**

**GENERALFEEDBACKFORMAT NUMBER(2) DEFAULT 0 NOT NULL,**

**DEFAULTMARK NUMBER(12,7) DEFAULT 1 NOT NULL,**

**PENALTY NUMBER(12,7) DEFAULT 0.3333333 NOT NULL,**

**QTYPE VARCHAR2(20 CHAR) DEFAULT ‘ ‘ NOT NULL,**

**LENGTH NUMBER(10) DEFAULT 1 NOT NULL,**

**STAMP VARCHAR2(255 CHAR) DEFAULT ‘ ‘ NOT NULL,**

**VERSION VARCHAR2(255 CHAR) DEFAULT ‘ ‘ NOT NULL,**

**HIDDEN NUMBER(1) DEFAULT 0 NOT NULL,**

**TIMECREATED NUMBER(10) DEFAULT 0 NOT NULL,**

**TIMEMODIFIED NUMBER(10) DEFAULT 0 NOT NULL,**

**CREATEDBY NUMBER(10),**

**MODIFIEDBY NUMBER(10)**

**)**

Changed table

CREATE TABLE DLQUESTION

**(**

**ID NUMBER(10) NOT NULL,**

**CATEGORY NUMBER(10) DEFAULT 0 NOT NULL,**

**PARENT NUMBER(10) DEFAULT 0 NOT NULL,**

**NAME VARCHAR2(255 CHAR) DEFAULT ‘ ‘ NOT NULL,**

**QUESTIONTEXT CLOB NOT NULL,**

**QUESTIONTEXTFORMAT VARCHAR2(2 BYTE) DEFAULT 0 NOT NULL,**

**GENERALFEEDBACK CLOB NOT NULL,**

**GENERALFEEDBACKFORMAT VARCHAR2(2 BYTE) DEFAULT 0 NOT NULL,**

**DEFAULTMARK NUMBER(12,7) DEFAULT 1 NOT NULL,**

**PENALTY VARCHAR2(20 BYTE) DEFAULT 0.3333333,**

**QTYPE VARCHAR2(20 CHAR) DEFAULT ‘ ‘ NOT NULL,**

**LENGTH NUMBER(10) DEFAULT 1 NOT NULL,**

**STAMP VARCHAR2(255 CHAR) DEFAULT ‘ ‘ NOT NULL,**

**VERSION VARCHAR2(255 CHAR) DEFAULT ‘ ‘ NOT NULL,**

**HIDDEN NUMBER(1) DEFAULT 0 NOT NULL,**

**TIMECREATED NUMBER(10) DEFAULT 0 NOT NULL,**

**TIMEMODIFIED NUMBER(10) DEFAULT 0 NOT NULL,**

**CREATEDBY NUMBER(10),**

**MODIFIEDBY NUMBER(10)**

**)**

## Results

No results. The error is the same: Error Oracle **ORA-01722 Invalid Number**