Subject: UTF8 Length of char -> ORA-01406 ORA-12899   Upp(6693/7609)
Posted by wqcmaster on Wed, 27 Aug 2014 13:54:49 GMT
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Tested on Windows XP and Windows 2008 R2 with Ultimate 7609
Tested on Linux with Oracle-Database (11), Client 11.1, Linux-Desktop: Ubuntu with UTF8 and
without UTF8 with Ultimate 6693

Did anybody have a idea, a hint or a solution?
We encounted a problem but do not know what we are doing wrong?

We insert a value in a database column with 'German umlauts', the column has a length of 5 and
the length of value too.
If we connect against a UTF8-Database we get an error about "ORA-12899: value too large for
column" during storage.
If we connect against a NON-UTF8-Database we are able to store, but during load we get an error
about "ORA-01406: fetched column value was truncated".

Where is the problem?

See our small Test-Program:

Database
TABLE_(UTF8TEST)
  INT_   (ID) PRIMARY_KEY
  STRING_ (TEST1,5)
  STRING_ (TEST2,10)
  TIME_   (TSTAMP)
END_TABLE

UTF8-Database && UTF8-Desktop-Enviroment:
SQL* insert into UTF8TEST(ID, TEST1 values (15, 'ääää')
ERROR ORA-12899: value too large for column "SCOTT"."UTF8TEST"."TEST1" (actual: 10,
maximum: 5)
(12899): insert into UTF8TEST(ID, TEST1) values (15, 'ääää')
SQL* select TEST1 from UTF8TEST where ID = 15
select TEST1 from UTF8TEST where ID = 15

UTF8-Database && Not-UTF8-Desktop-Enviroment:
SQL* insert into UTF8TEST(ID, TEST1) values (13, 'ääää')
ERROR ORA-12899: value too large for column "SCOTT"."UTF8TEST"."TEST1" (actual: 10,
maximum: 5)
(12899): insert into UTF8TEST(ID, TEST1) values (13, 'ääää')
SQL* select TEST1 from UTF8TEST where ID = 13
select TEST1 from UTF8TEST where ID = 13

Not-UTF8-Database && Not-UTF8-Desktop-Enviroment:
SQL* insert into UTF8TEST(ID, TEST1) values (11, 'ääää')
insert into UTF8TEST(ID, TEST1) values (11, 'ääää')
SQL* select TEST1 from UTF8TEST where ID = 11
select TEST1 from UTF8TEST where ID = 11
ERROR ORA-01406: fetched column value was truncated
(1406): select TEST1 from UTF8TEST where ID = 11

Not-UTF8-Database && UTF8-Desktop-Enviroment:

SQL* insert into UTF8TEST(ID, TEST1) values (13, 'ääää')
insert into UTF8TEST(ID, TEST1) values (13, 'ääää')
select TEST1 from UTF8TEST where ID = 13
ERROR ORA-01406: fetched column value was truncated
(1406): select TEST1 from UTF8TEST where ID = 13

File Attachments
1) TestOraUTF8Error.zip, downloaded 354 times
2) TestOraUTF8Error.png, downloaded 1078 times