**List ll the assert-library functions in utPLSQL**

The utPLSQL assert library consists of various assertion functions provided mainly through the utAssert package. These functions allow writing unit tests that verify conditions, equality, existence, and exceptions in PL/SQL code. Here is a list of key assertion functions in utPLSQL's assert library:

* utAssert.this - Generic assertion for a boolean expression.
* utAssert.isnull / utAssert.isnotnull - Check for NULL or NOT NULL values.
* utAssert.eq - Check equality of scalar values (numbers, strings, dates, booleans).
* utAssert.eqtable - Check equality of database tables.
* utAssert.eqtabcount - Check equality of table row counts.
* utAssert.eqquery - Check equality of query results.
* utAssert.eqqueryvalue - Check equality of a query against a single value.
* utAssert.eqfile - Check equality of files.
* utAssert.eqpipe - Check equality of database pipes.
* utAssert.eqcoll / utAssert.eqcollapi - Check equality of PL/SQL collections.
* utAssert.throws - Check that a procedure or function throws an expected exception.
* utAssert.previous\_passed / utAssert.previous\_failed - Check the result of the previous assertion.
* utAssert.objexists / utAssert.objnotexists - Check for the existence or nonexistence of database objects.
* utAssert.eqoutput - Check equality of DBMS\_OUTPUT collections.
* utAssert.eq\_refc\_query - Check equality between a ref cursor and a query.
* utAssert.eq\_refc\_table - Check equality between a ref cursor and a database table.

These assertion routines form the core utPLSQL assert library used to validate test cases in PL/SQL unit tests.[[1]](#fn1)[[2]](#fn2)[[3]](#fn3)

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1. <https://www.utplsql.org/utPLSQL/latest/userguide/expectations.html>

1. <https://www.utplsql.org/utPLSQL/v2.3.1/utassert.html>

1. <https://resources.oreilly.com/examples/utplsql/blob/master/Doc/utassert.htm>

1. <https://www.utplsql.org/utPLSQL/v2.3.1/testfunc.html>

1. <https://www.salvis.com/blog/2022/07/31/testing-with-utplsql-made-easy-with-sql-developer/>

1. <https://www.utplsql.org/utPLSQL/v2.3.1/fourstep.html>

1. <https://mikesmithers.wordpress.com/2016/09/25/utplsql-were-building-the-unit-tests/>

1. <http://aprogrammerwrites.eu/?cat=107>

1. <https://stackoverflow.com/questions/16647327/utplsql-how-to-assert-not-equal>

1. <https://www.utplsql.org/utPLSQL/v3.1.5/userguide/expectations.html>