

## utPLSQL v3 Cheat Sheet

by Jacek Gebal (jgebal) via cheatography.com/22528/cs/11565/

Package annotations	
%suite	Package is a test suite
%suite(description)	A suite with description
%suitepath(org.my_org.my_project)	Similar to Java package. Groups suites in namespaces

Annotations are sinlgle-line comments starting with a % sign. Needed in package specification only (documentation)

Procedure annotations	
%test	The procedure is a test
%test(description)	A test with description
 %beforetest(procedure_name)	Runs the procedure before annotated test
 %aftertest(procedure_name)	Runs the procedure after annotated test
%beforeall	The procedure to run before first test in suite
%afterall	The procedure to run after last test in suite
%beforeeach	The procedure to run before each test

# **Unuary matchers**

### be\_empty

--%aftereach

```
open l_cursor for select * from dual where 1 = 0;
ut.expect( l_cursor ).to_( be_empty() );
```

The procedure to after each test

## be\_false

```
ut.expect( ( 1 = 0 ) ).to_( be_false() );
```

### be not null

```
ut.expect( to_clob('ABC') ).to_( be_not_null() );
```

### be null

```
ut.expect( 1 ).to_( be_null() );
```

### be\_true

```
ut.expect( ( 1 = 1 ) ).to_( be_true() );
```

```
Common annotations

--%disabled Suite / test will not execute

--%rollback(auto) Automatic savepoints/rollbacks - default

--%rollback(manual) No saveopint/rollback
```

### **Expectation structure**

```
Base expectation block
```

```
ut.expect( actual_value ).to_( matcher );
```

### Negated expectation block

```
ut.expect( actual_value ).not_to( matcher );
```

## **Equality matcher**

#### equal

```
ut.expect( 'a dog' ).to_(
  equal( 'a dog' ), a_nulls_are_equal => false ) );
a_nulls_are_equal is true by default
```

#### equal with cursors

```
open 1_expected for select * from dual;
open 1_actual for select * from dual where 1 = 0;
ut.expect( 1_expected ).to_( equal(1_actual) );
```

## equal on objects

```
ut.expect( anydata.convertObject(l_expected) ).to_(
  equal( anydata.convertObject(l_actual) ) );
```

## equal on collections

```
ut.expect( anydata.convertCollection(l_expected)
).to_(
   equal( anydata.convertCollection(l_actual) ) );
```

## Non-equality matchers

## be like

```
ut.expect( 'Lorem_impsum' ).to_(
  be_like( a_mask => '%rem\_%', a_escape_char => '\'
) );
ut.expect( 'Lorem_impsum' ).to_( be_like( '%rem%sum'
) );
a_mask, a_escape_char -> see Oracle like operator
```



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## Non-equality matchers (cont)

### match

```
ut.expect( a_actual => '123-456-ABcd' ).to_(
  match( a_pattern => '\d{3}-\d{3}-[a-z]',
a_modifiers => 'i' ) );
ut.expect( 'some value' ).to_( match( '^some.*' ) );
a_pattern, a_modifiers -> see regexp_like function
```

### be\_between

```
ut.expect(3).to_(be_between(1,3));
```

## be\_greater\_or\_equal

```
ut.expect( sysdate ).to_( be_greater_or_equal(
sysdate - 1 ) );
```

## be\_greater\_than

```
ut.expect( 2 ).to_( be_greater_than( 1 ) );
```

#### be\_less\_or\_equal

```
ut.expect( 3 ).to_( be_less_or_equal( 3 ) );
```

### be\_less\_than

```
exec ut.expect( 3 ).to_( be_less_than( 2 ) );
```

## Reporting

## Color output

```
exec ut.run(a_color_console=>true);
With sqlcl
or sqlPlus (Mac, Unix, Windows ANSICON)
```

## XUnit reporter

```
exec ut.run(ut_xunit_reporter());
JUnit-compatible XML report for CI servers
```

## TeamCity reporter

```
exec ut.run(ut_teamcity_reporter());
TeamCity-specific report
```

## Sonar Test reporter

```
exec ut.run(ut_sonar_test_reporter());
Sonar-specific XML tests report
```

### Coverage html reporter

```
exec ut.run(ut_coverage_html_reporter());
```

Produces HTML coverage report

## Documentation for coverage and reporters



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## **Executing tests**

```
Run all unit tests in my current schema
```

```
exec ut.run();
```

#### Run all unit tests in current schema after it was changed to HR

```
alter session set current_schema='HR';
exec ut.run();
```

### Run all unit tests in specific schema

```
exec ut.run('HR');
```

### Run all unit tests in specific package of current schema

```
exec ut.run('test_betwnstr');
```

## Run all unit tests in specific schema.package

```
exec ut.run('hr.test_betwnstr');
```

### Run one specific test only

```
exec ut.run('hr.test_betwnstr.big_end_position');
```

#### Run several items

```
exec ut.run(ut_varchar2_list(
   'hr.test_award_bonus',
   'hr.test_betwnstr.big_end_position'));
```

## Run test using suitepath

```
exec ut.run(':com.my_org.my_project');
```

### Run the tests as a select statement

```
select * from table(ut.run());
```

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