

TEST AND PLAN PROJECT

Objective:

The Objective of learning this test plan to ensure the functionality, reliability, and correctness of the classes within the TestandPlan project.

Classes to be Tested:

- CreateDDLMySQL
- EdgeConvertCreateDDL
- EdgeConvertFileParser
- EdgeField
- EdgeTable

Test Scenarios:

1. CreateDDLMySQL

Scenario:

Creating DDL for a Simple Table Description: Testing the generateDDL method's ability to create CREATE TABLE statements for a simple table.

Steps:

- Call the generateDDL method with the argument of a simple table.
- Compare the output with the expected DDL.

2. EdgeConvertCreateDDL

Scenario 1:

Testing the generateDDL method's ability to create a CREATE TABLE statement for a simple table.

Steps:

- Call the generateDDL method with the argument of a simple table.
- Compare the output with the expected DDL.

Scenario 2: Creating DDL for a Table with Foreign Key

Testing the generateDDL method's ability to create a CREATE TABLE statement for a table that includes a foreign key.

Steps:

- Call the generateDDL method with the argument of a table containing a foreign key.
- Verify the successful creation of the DDL.

3. EdgeConvertFileParser

Scenario 1:

Parsing a Valid File Description: Testing the parseFile method's ability to successfully read a valid file.

Steps:

- Call the parseFile method with a valid file location.
- Verify that file parsing is successful.
- Verify that the parsing result matches the expected outcome.

Scenario 2:

Parsing an Invalid File Description: Testing the parseFile method's ability to handle an invalid or non-existent file.

Steps:

- Call the parseFile method with an invalid or non-existent file location.
- Verify that file parsing fails.

4. EdgeField

testGetterAndSetter Method

Scenario 1: Set and Get Field Attributes

Test the ability of the testGetterAndSetter method to correctly set and get field attributes.

Steps:

- Set values for all field attributes using setter methods.
- Verify that the getter methods return the expected values.

Scenario 2: Set and Get Field Attributes (Negative Test)

Test the ability of the testGetterAndSetter method to handle invalid or out-of-range values.

Steps:

Attempt to set values for attributes with invalid or out-of-range inputs.

Verify that the setter methods reject invalid inputs.

testToString Method

Scenario : Check toString Output

Test whether the toString method produces the correct output.

Steps:

- Set values for all field attributes.

- Call the toString method.
- Verify that the generated string matches the expected format.

5. EdgeTable

testGetterAndSetter Method

Scenario : Check Getters

Test the ability of the testGetterAndSetter method to correctly get table attributes.

Steps:

- Set values for table attributes during setup.
- Verify that the getter methods return the expected values.

testAddRelatedTable Method

Scenario : Add Related Table

Test whether the addRelatedTable method functions correctly.

Steps:

- Add a related table during setup.
- Verify that the related table is added to the array.

testAddNativeField Method

Scenario : Add Native Field

Test whether the addNativeField method functions correctly.

Steps:

- Add native fields during setup.
- Verify that the native fields are added to the array.

testMoveFieldUp Method

Scenario : Move Field Up

Test whether the moveFieldUp method functions correctly.

Steps:

Move a native field up during setup.

Verify that the native field has moved up in the array.

testMoveFieldDown Method

Scenario : Move Field Down

Test whether the moveFieldDown method functions correctly.

Steps:

- Move a native field down during setup.
- Verify that the native field has moved down in the array.

Known Issues :

Here we are still having difficulty displaying the output report text file. but we can now display checkstyle and pmd in this test and plan.

Informasi Versi:

JDK Version: 21.0.1

Gradle Version: 8.4

Repository :

https://github.com/adibrit27/TestPlan_Iste422.git

Capture Test and Plan Project :

