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 :

Capture Test and Plan Project :