

SQL Generation Tests.

Create

Test 1:

Name: TestGenerateCreateNoWhere

Initial State: No initial state. Code is a Pure Function and has no internal state data.

Input:

1. DomianModel object data.

Output: valid SQL code for creating that object in the database.

Expected Results: SQL code with random data inserted into correct spot.

Result: Pass

Update

Test 1:

Name: TestGenerateUpdateWithWhere

Initial State: No initial state. Code is a Pure Function and has no internal state data.

Input:

1. DomianModel object data.
2. Inline LINQ code for the C# representation of the where statement

Output: valid SQL code for updating that object in the database with the C# LINQ code transformed into an expression tree then into the correct select statement.

Expected Results: SQL code with random data inserted into correct spot.

Result: Pass

Test 2:

Name: TestGenerateCreateWithID

Initial State: No initial state. Code is a Pure Function and has no internal state data.

Input:

1. DomianModel object data.
2. ID of object to update

Output: valid SQL code for removing that object in the database with select clause for that ID.

Expected Results: SQL code with random data inserted into correct spot.

Result: Pass

Load

Test 1:

Name: TestGenerateLoadWithWhere

Initial State: No initial state. Code is a Pure Function and has no internal state data.

Input:

1. DomianModel object data.
2. Inline LINQ code for the C# representation of the where statement

Output: valid SQL code for loading that object in the database with the C# LINQ code transformed into an expression tree then into the correct select statement.

Expected Results: SQL code with random data inserted into correct spot.

Result: Pass

Test 2:

Name: TestGenerateLoadWithID

Initial State: No initial state. Code is a Pure Function and has no internal state data.

Input:

1. DomianModel object data.
2. ID of object to update

Output: valid SQL code for removing that object in the database with select clause for that ID.

Expected Results: SQL code with random data inserted into correct spot.

Result: Pass

Delete

Test 1:

Name: TestGenerateDeleteWithWhere

Initial State: No initial state. Code is a Pure Function and has no internal state data.

Input:

1. DomianModel object data.
2. Inline LINQ code for the C# representation of the where statement

Output: valid SQL code for removing that object in the database with the C# LINQ code transformed into an expression tree then into the correct select statement.

Expected Results: SQL code with random data inserted into correct spot.

Result: Pass

Test 2:

Name: TestGenerateDeleteWithID

Initial State: No initial state. Code is a Pure Function and has no internal state data.

Input:

1. DomainModel object data.
2. ID of object to update

Output: valid SQL code for removing that object in the database with select clause for that ID.

Expected Results: SQL code with random data inserted into correct spot.

Result: Pass

FileDTO

Name: DoesMapToDM

Initial State: Server normal operating state.

Input:

1. PythonFileDTO

Output: PythonFileDM

Expected Results: Data in DM matches that in DTO but mapped to the correct object.

Result: Pass