Salesforce Test Classes Best Practices

- **Use Descriptive Names**: Name test classes clearly to indicate what functionality they are testing.
- **♣ Isolate Test Data**: Create test data within the test class to ensure tests are independent of data created in other tests.
- **Use @TestSetup**: Use @TestSetup methods to create common test data for multiple test methods, improving efficiency.
- **Use System.assert()**: Assert expected outcomes using System.assert() methods to validate behavior.
- Avoid Hardcoding IDs: Use Salesforce's built-in Id creation methods or query for record IDs dynamically to avoid hardcoding IDs.

- **Test Bulk Operations**: Test the behavior of your code with bulk data to ensure it performs well under various loads.
- Use Test.startTest() and Test.stopTest(): Use these methods to separate setup and execution phases, ensuring accurate governor limit counting.
- **★ Test Exception Handling**: Cover exception handling scenarios to ensure your code behaves as expected when errors occur.
- ♣ Keep Test Classes Up-to-date: Regularly review and update test classes as your codebase evolves to maintain effective test coverage.
- Use Test.isRunningTest(): Conditionally execute code blocks within your classes using Test.isRunningTest() to handle testspecific logic.
- ♣ Document Your Tests: Add comments to your test methods explaining what they are testing and why, aiding in understanding and maintenance