Apex Testing

Test Apex Triggers

RestrictContactByName Code:

```
trigger RestrictContactByName on Contact (before insert, before update)
{


//check contacts prior to insert or update for invalid data
For (Contact c : Trigger.New) {
if(c.LastName == 'INVALIDNAME') {        //invalidname is invalid
c.AddError('The Last Name "'+c.LastName+'" is not allowed for DML');
}


}
}
```

Test RestrictContactByName;

```
@isTest
private class TestRestrictContactByName {

   @isTest static void testInvalidName() {
      //try inserting a Contact with INVALIDNAME
      Contact myConact = new Contact(LastName='INVALIDNAME');
```

```
        insert myConact;

        // Perform test
        Test.startTest();
        Database.SaveResult result = Database.insert(myConact, false);
        Test.stopTest();
        // Verify
        // In this case the creation should have been stopped by the trigger,
        // so verify that we got back an error.
        System.assert(!result.isSuccess());
        System.assert(result.getErrors().size() > 0);
        System.assertEquals('Cannot create contact with invalid last name.',
                result.getErrors()[0].getMessage());

    }
}
```