Apex Testing

**verify date:**

**public class VerifyDate {**

**//method to handle potential checks against two dates**

**public static Date CheckDates(Date date1, Date date2) {**

**//if date2 is within the next 30 days of date1, use date2.  Otherwise use the end of the month**

**if(DateWithin30Days(date1,date2)) {**

**return date2;**

**} else {**

**return SetEndOfMonthDate(date1);**

**}**

**}**

**//method to check if date2 is within the next 30 days of date1**

**private static Boolean DateWithin30Days(Date date1, Date date2) {**

**//check for date2 being in the past**

**if( date2 < date1) { return false; }**

**//check that date2 is within (>=) 30 days of date1**

**Date date30Days = date1.addDays(30); //create a date 30 days away from date1**

**if( date2 >= date30Days ) { return false; }**

**else { return true; }**

**}**

**//method to return the end of the month of a given date**

**private static Date SetEndOfMonthDate(Date date1) {**

**Integer totalDays = Date.daysInMonth(date1.year(), date1.month());**

**Date lastDay = Date.newInstance(date1.year(), date1.month(), totalDays);**

**return lastDay;**

**}**

**}**

**test verify date:**

**@isTest**

**public class TestVerifyDate**

**{**

**static testMethod void testMethod1()**

**{**

**Date d = VerifyDate.CheckDates(System.today(),System.today()+1);**

**Date d1 = VerifyDate.CheckDates(System.today(),System.today()+60);**

**}**

**}**

**Restrict contact by name:**

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

**//check contacts before 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 restrict contact by name:**

**@isTest**

**private class TestRestrictContactByName {**

**static testMethod void  metodoTest()**

**{**

**List<Contact> listContact= new List<Contact>();**

**Contact c1 = new Contact(FirstName='Francesco', LastName='Riggio' , email='Test@test.com');**

**Contact c2 = new Contact(FirstName='Francesco1', LastName = 'INVALIDNAME',email='Test@test.com');**

**listContact.add(c1);**

**listContact.add(c2);**

**Test.startTest();**

**try**

**{**

**insert listContact;**

**}**

**catch(Exception e)**

**{**

**}**

**Test.stopTest();**

**}**

**}**

**Random contact factory**

**//@isTest**

**public class RandomContactFactory {**

**public static List<Contact> generateRandomContacts(Integer numContactsToGenerate, String FName) {**

**List<Contact> contactList = new List<Contact>();**

**for(Integer i=0;i<numContactsToGenerate;i++) {**

**Contact c = new Contact(FirstName=FName + ' ' + i, LastName = 'Contact '+i);**

**contactList.add(c);**

**System.debug(c);**

**}**

**//insert contactList;**

**System.debug(contactList.size());**

**return contactList;**

**}**

**}**