

# Get Started with Apex Unit Tests

VERIFYDATE.APXC

```
@istest
public class TestVerifyDate {
    public static testmethod void verifyDate()
    {
        date d=system.today();
        date d1=date.parse('12/05/2016');
        date d2=system.today()+1;
        VerifyDate.CheckDates(d,d1);
        VerifyDate.CheckDates(d,d2);
    }
}
```

TESTVERIIFYDATE.APXC

```
@isTest
public class TestVerifyDate {
    @isTest static void testCheckDates()
    {
        Date D1=system.today();
        Date D2=system.today()+20;
        date D=VerifyDate.CheckDates(D1,D2);
    }
    @isTest static void testCheckDates1()
    {
        Date D1=system.today();
        Date D2=system.today()-20;
        date D=VerifyDate.CheckDates(D1,D2);
    }
    @isTest static void testCheckDates2()
    {
        Date D1=system.today();
        Date D2=system.today()+60;
        date D=VerifyDate.CheckDates(D1,D2);
    }
}
```

# Test Apex Triggers

## RESTRICTCONTACTBYNAME.APXT

```
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");
        }
    }
}
```

## TESTRESTRICTCONTACTBYNAME.APXC

```
@isTest
private class TestRestrictContactByName {

    @isTest static void metodoTest() {

        List listaContatti = new List();
        Contact c1 = new Contact(FirstName='Francesco', LastName='Riggio');
        Contact c2 = new Contact(LastName = 'INVALIDNAME');
        listaContatti.add(c1);
        listaContatti.add(c2);

        //insert listaContatti;

        // Perform test
        Test.startTest();
        Database.SaveResult [] result = Database.insert(listaContatti, false);
        Test.stopTest();

        c1.LastName = 'INVALIDNAME';
        update c1;

    }
}
```

# Create Test Data for Apex Tests

RANDOMCONTACTFACTORY.APXC

```
public class RandomContactFactory{

    public static List<Contact> generateRandomContacts(integer n,string LastName){
        integer n1=n;
        List<contact> c1 = new list<contact>();
        list<contact> c2 =new list<contact>();
        c1 = [select FirstName from Contact Limit : n1];
        integer i=0;
        for(contact cnew : c1){
            contact cnew1 = new contact();
            cnew1.firstname = cnew.firstname + i;

            c2.add(cnew1);
            i++;
        }
        return c2;
    }
}
```

