Use Future Methods

Apex Class Name: AccountProcessor

```
public class AccountProcessor {
  @future
 public static void someFutureMethod(List<id> scope) {
 Account[] updates = new Account[] {};
    for (AggregateResult ar : [
         select AccountId a, count(Id) c
        from Contact
        where AccountId in :scope
        group by AccountId
        ]) {
      updates.add(new Account(
           Id = (Id) ar.get('a'),
           Number_of_Contacts__c = (Decimal) ar.get('c')
           ));
    }
    update updates;
  }
}
```

Apex Test Class Name: AccountProcessorTest

```
@lsTest
public class AccountProcessorTest {
public static testmethod void TestAccountProcessorTest() {
Test.startTest();
  Account a = new Account();
    a.Name = 'Test Account';
    Insert a;
   Contact cont = New Contact();
   cont.FirstName ='Bob';
   cont.LastName ='Masters';
   cont.AccountId = a.Id;
   Insert cont;
  Test.stopTest();
  Contact ACC = [select AccountId from Contact where id = :a.id LIMIT 1];
    System.assert(Cont.AccountId != null);
    System.assertequals(cont.id, ACC.AccountId);
}
```

Use Batch Apex

Apex Class Name: LeadProcessor

Apex Test Class Name: LeadProcessorTest

```
@isTest
public class LeadProcessorTest
  static testMethod void testMethod1()
    List<Lead> lstLead = new List<Lead>();
    for(Integer i=0 ;i <200;i++)
      Lead led = new Lead();
      led.FirstName ='FirstName';
      led.LastName ='LastName'+i;
      led.Company ='demo'+i;
      lstLead.add(led);
    }
    insert IstLead;
    Test.startTest();
      LeadProcessor obj = new LeadProcessor();
      DataBase.executeBatch(obj);
    Test.stopTest();
```

Control Processes with Queueable Apex

Apex Class Name : AddPrimaryContact

```
public class AddPrimaryContact implements Queueable
  private Contact c;
  private String state;
  public AddPrimaryContact(Contact c, String state)
    this.c = c;
    this.state = state;
  public void execute(QueueableContext context)
     List<Account> ListAccount = [SELECT ID, Name ,(Select id,FirstName,LastName from
contacts ) FROM ACCOUNT WHERE BillingState = :state LIMIT 200];
     List<Contact> lstContact = new List<Contact>();
     for (Account acc:ListAccount)
         Contact cont = c.clone(false,false,false,false);
         cont.AccountId = acc.id;
         lstContact.add( cont );
     }
     if(lstContact.size() >0)
       insert lstContact;
  }
}
```

Apex Test Class Name: AddPrimaryContactTest

```
@isTest
public class AddPrimaryContactTest {
  @isTest static void testQueueable(){
    //<----@testSetup
    List<Account> accounts = new List<Account>();
    for (Integer i = 0; i < 50; i++){accounts.add(new Account(name = 'acc' + i, BillingState =
'NY')); }
    for (Integer i = 50; i < 100; i++){accounts.add(new Account(name = 'acc' + i, BillingState =
'CA')); }
    insert accounts;
       String strState = 'CA';
    Contact cont = new Contact(LastName = 'TstsName');
    AddPrimaryContact updater = new AddPrimaryContact(cont, strState);
    //<----@testSetup
    //<----@testExecution
    Test.startTest();
       System.enqueueJob(updater);
    Test.stopTest();
    //<----@testExecution
    //<----@testResult
    System.assertEquals(50, [select count() from Contact where accountID IN (SELECT id
FROM Account WHERE BillingState = :strState)]);
    //<----@testResult
 }
```

Schedule Jobs Using the Apex Scheduler

Apex Class Name: DailyLeadProcessor

Code:

Apex Test Class Name: DailyLeadProcessorTest