Interview Apex trigger Solved Scenarios













1. when ever a record is inserted to the account automatically inserted to the contact

```
trigger SCENARIO1 on Account (after insert) {
    list<contact> c=new list<contact>();
    for(account a:trigger.new)
    {
        contact b=new contact();
        b.LastName=a.Name;
        b.AccountId=a.Id;
        c.add(b);
    }
    insert c;
}
```

2. when ever a record is inserted to the contact automatically inserted to the account

```
trigger scenario2 on Contact (after insert) {

if(Recursive.flag)
{

Recursive.flag=false;

list<account>a=new list<account>();

for(contact c:trigger.new)
{

account al=new account();

al.Phone=c.Phone;

al.Name=c.LastName;

a.add(al);
}

insert a;
}

Recursive trigger fire:

3.avoid recursive trigger

public class Recursive {

public static boolean flag=true;
}
```

```
trigger scenario24 on Opportunity (after insert) {
set<id>ids=new set<id>();
for(Opportunity op:trigger.new)
ids.add(op.accountid);
list<account>ac=[select Total_opportunities_c,Total_Amount_c,(select id,Amount from Opportunities_) from a
ccount where id=:ids];
for(account a:ac)
a.Total opportunities c=a.opportunities.size();
decimal sum=0;
for(opportunity p:a.opportunities)
sum=sum+p.amount;
a.Total Amount c=sum;
update ac;
4.contact object when ever department equal to cse automatically before inserted email field
trigger scenario4 on Contact (before insert) {
for(contact c:trigger.new)
if(c.Department='CSE')
c.Email='naveengorentlal@gmail.com';
```

3. when ever a create opportunity object record updated total opportunies and total amount in account object

```
5. when ever we modify inputout object doctorname automatically update droppoff object text field no relation ship

trigger SCENARIO32 on Inputout_c (after update) {
list<Dropoffl_c>d=[select id,name,Text_c from Dropoffl_c where Text_c='naveen'];

string name;

for(Inputout_c c:trigger.new) {
    name=c.Doctor_Name_c;
    }

for(Dropoffl_c dp:d) {
    dp.Text_c=name;
    }

update d;
}
```

```
frigger SCENARIO6 on Account (before insert,before update) {
  integer count=0;
  list<account>a=[select id,name from account where createddate=today or lastmodifieddate=today];
  for(account ac:trigger.new) {
    count=a.size();
    ac.NumberofLocations_c=count;
    if(count>2) {
        ac.adderror('reached limit today');
    }
}
```

7.can not inser/update/delete that user account object records

```
trigger scenario30 on Account (before insert, before update, before delete) {
user u=[select id,name from user where username='naveensfdc98@gmail.com'];
if(u.id=userinfo.getUserId())
if(trigger.isdelete)
for(account a:trigger.old)
a.adderror('cant delete record');
if(trigger.isupdate)
for(account b:trigger.new)
b.adderror('can not update');
if(trigger.isinsert)
for(account c:trigger.new)
c.adderror('can not insert');
```

```
8.already existing records display error message
trigger scenario8 on Contact (before insert) {
list<string>st=new list<string>();
for(contact c:trigger.new)
list<contact>a=[select id,name,Email,lastname from contact where Email=:c.Email];
if(a.size()>0)
c.Email.adderror('already existing');
for loop without query
trigger duplicatetrigger on Inputout c (before insert) {
set<string>s=new set<string>();
for(Inputout c op:trigger.new)
s.add(op.Doctor Name c);
list<Inputout c>d=[select id,Doctor Name c from Inputout c where Doctor Name c=:s];
set<string>dupids=new set<string>();
for(Inputout c don:d)
dupids.add(don.Doctor Name c);
for(Inputout c c:trigger.new)
if(c.Doctor Name c!=null)
if(dupids.contains(c.Doctor Name c))
c.Doctor Name c.adderror('already existing record');
```

9. count of related contacts and accounts field display size

public class rollupsummery {

public static void increment(list<contact>con)
{

set<id>id>=new set<id><();

```
for(contact c:con)
ids.add(c.accountid);
list<account>a=[select id,name,NumberOfEmployees,(select id,lastname from contacts) from account where id
=:ids];
for(account ac:a)
ac.NumberOfEmployees=ac.contacts.size();
update a;
trigger:
trigger scenariol 1 on Contact (after insert) {
rollupsummery.increment(trigger.new);
```

```
    when ever opportunity stagename =closedwon automatically update the account field rating=hot

trigger scenario12 on Opportunity (after insert, after update) {
set<id>ids=new set<id>();
list<account>ac=new list<account>();
for(opportunity op:trigger.new)
ids.add(op.AccountId);
ac=[select id,name,rating from account where id=:ids];
if(op.StageName='Closed won')
for(account a:ac)
a.Rating='hot';
update ac;
11. when ever account name is naveen automatically update the contact all lastnames
trigger scenario13 on Account (after update) {
string names;
list<contact>c=[select id,lastname,firstname from contact where lastname=:names ];
for(account a:trigger.new)
names=a.name;
for(contact con:c)
con.lastname=names;
update c;
```

```
12, when ever a opportunity created record amount field is calculated by account total field
```

```
trigger scenario21 on Opportunity (after insert,after update,after delete) {
set<id>id>ids=new set<id>();
map<id,opportunity>opp=new map<id,opportunity>();
Decimal oldVal;
Decimal newVal:
if(trigger.isinsert)
for(opportunity op:trigger.new)
ids.add(op.AccountId);
opp.put(op.AccountId, op);
list<account> acc=[select id, Total Amount c from account where id=:ids];
for(account a:acc)
if(a.Total Amount c==null)
a.Total Amount c=opp.get(a.Id).amount;
else
a.Total Amount c= a.Total Amount c+opp.get(a.Id).amount;
update acc;
if(trigger.isUpdate)
for(opportunity op:trigger.new)
ids.add(op.AccountId);
opp.put(op.AccountId, op);
newVal=op.Amount;
```

```
for(Opportunity ops:trigger.old) {
    oldVal=ops.Amount;
}
list<account> acc=[select id,Total_Amount__c from account where id=:ids];
for(account a:acc)
{
    if(a.Total_Amount__c=null) }
{
        a.Total_Amount__c=opp.get(a.Id).amount;
}
else
{

    a.Total_Amount__c= a.Total_Amount__c+opp.get(a.Id).amount-oldVal;
}

    update acc;
}

}

update acc;
}
```

13. when ever a create a lead object automatically converted account ,contact,opportunity

```
trigger scenario 19 on Lead (after insert) [
list<account>acc=new list<account>();
list<contact>con=new list<contact>();
list<opportunity>op=new list<opportunity>();
for(lead l:trigger.new)
account a=new account();
a.Name=l.lastname;
a.Phone=1.Phone;
acc.add(a);
contact c=new contact();
c.LastName=I.Name;
con.add(c);
opportunity o=new opportunity();
o.Amount=l.AnnualRevenue;
o.CloseDate=system.today();
o.StageName='closed won';
op.add(o);
insert acc:
insert con;
insert op;
1
```

14. when ever create a contact automatically update opprtunity fields

```
trigger scenario17 on Contact (after insert) {
list<opportunity>op=[select id,name,stagename,Description,amount from opportunity limit 50];
for(contact c:trigger.new) {
for(opportunity o:op)
{
    if(o.amount<5000||o.Amount==null) {
        o.amount=5000;
        o.Name=o.Name+'Mr';
        o.StageName='prospecting';
}
else {
        o.Amount=o.Amount+1000;
        o.Name=o.Name+'Dr';
}
update o;
}
```

15. Whenever new account is created, its rating should be hot.

```
trigger AccTrig on Account (before insert) {
   for (Account a:trigger.new) {
      a.rating = 'Hot';
   }
}
```

16. Make a Fax field mandatory in Account using trigger.

```
trigger AccTrig on Account (before insert) {
    for (Account a:trigger.new){
        if (a.fax == Null) {
            a.fax.addError('Fax field is mandatory');
        }
    }
}
```

17. Whenever a new contact is created, prefix the firstname with Mr.

```
trigger Contrig on Contact (before insert) {
  for (contact c:Trigger.new){
     c.salutation = 'Mr';
  }
}
```

18. Prevent the insertion of an account, if you already have an account with the same name (Prevent the insertion of a duplicate account).

```
trigger AccountDuplicate on Account (before insert)
Set<String> setName = new Set<String>();
For(Account acc: trigger.new)
setName.add(acc.name);
if(setName.size() > 0)
List<Account> lstAccount = [select name ,id from account where name in :setName ];
Map<String ,Account> mapNameWiseAccount = new Map<String,Account>();
For(Account acc: IstAccount)
 mapNameWiseAccount.put(acc.name ,acc);
For(Account acc : trigger.new)
 if(mapNameWiseAccount.containsKey(acc.name))
  acc.Name.addError('Name already Exist');
```

19. Whenever a new contact is inserted in the system, update the accounts phone field with the contacts phone field.

TRIGGER:

```
trigger contactTrigger on Contact (before insert, before update, before delete, after insert, after update, after d elete, after undelete) {

if(trigger.isBefore) {

system.debug('I am before trigger');
```

```
else if(trigger.isAfter){
          system.debug('I am after trigger');
          if(trigger.isUpdate){
            contactTriggerHandler.afterUpdateHelper(trigger.new);
HANDLER CLASS:
       public class contactTriggerHandler {
        public static void afterUpdateHelper(List<Contact> conList){
           Set < Id > setId = new Set < Id > ();
           for(Contact con:conList) {
             setId.add(con.AccountId);
           system.debug('setId' + setId);
          List<Account> accItemList = [Select Id, Name, Phone, (Select Id, FirstName, LastName, Phone, Account
tld From Contacts) From Account Where Id IN:setId];
           for(Account al:accItemList) {
             for(Contact c1:a1.Contacts){
               if(c1.Phone !=null){
                   a1.Phone = c1.Phone;
                   update accItemList;
```

20. Create a contact whenever a new account is created.

```
trigger AccTrig2 on Account (after insert) {
    set < id > Accid = new set < id > ();
    list < Contact > ContList = new List < Contact > ();

    for (Account a: Trigger.new) {
        Accid.add(a.id);

        contact c = new contact();

        c.AccountId = a.id;
        c.lastName = a.name;
        c.phone = a.phone;
        contList.add(c);
    }
    insert contList;
}
```

21. Prevent to delete account if they have related opportunity

```
trigger DeleteAccountOpportunity1 on Account (before delete)

{
    List<Opportunity> opp = [Select accountID from opportunity where accountid in :TRIGGER.OLD];
    for(Account a : Trigger.OLD)
    {
        for(Opportunity o : Opp)
        {
            if(a.id == o.accountId)
            {
                  a.addError('Account have Opportunity ,so you can not delete this Account');
            }
        }
    }
}
```

```
23. Trigger will prevent the user to delete records from account
      trigger test6 on Account (before delete) {
        for (Account A:Trigger.old){
          A.addError(' You can not delete the record, Please contact your Administartator');
24. Prevent user from creating duplicate accounts with same name
trigger AccountDuplicate on Account (before insert)
Set<String> setName = new Set<String>();
For(Account acc: trigger.new)
 setName.add(acc.name);
if(setName.size() > 0)
 List<Account> lstAccount = [select name ,id from account where name in :setName ];
 Map<String ,Account> mapNameWiseAccount = new Map<String,Account>();
 For(Account acc: IstAccount)
 mapNameWiseAccount.put(acc.name_,acc);
 For(Account acc : trigger.new)
  if(mapNameWiseAccount.containsKey(acc.name))
  acc.Name.addError('Name already Exist');
```

25. Add a prefix dr to all leads names whenever a record is updated or inserted

26. Prevent user to delete contact which is associated with any account.

```
trigger TrigContact on Contact (before delete) {
    for (contact c:Trigger.old) {
        if(c.AccountId != Null) {
            c.addError('Can not delete contact');
        }
    }
}
```

27. Throw an error if phone number is not 10 dight of length

```
trigger AccTrig23 on Account (before insert, BEFORE UPDATE) {
   for (Account a:Trigger.new) {
      if (a.phone.length() != 10) {
          a.phone.addError('Phone length is not 10');
      }
}
```

28.	28. Whenever contact is created update status field from it's associate account	
29.	Whenever new record is created in account object, before this record inserted in account object Account, delete all contact records avilable with the same name	
30.	when ever a record is inserted to the Account automatically inserted to the Contact	
	trigger SCENARIO1 on Account (after insert) {	
	list <contact> c=new list<contact>();</contact></contact>	
	for(account a:trigger.new)	
	contact b = new contact();	
	b.LastName = a.Name; b.AccountId = a.Id;	
	e.add(b);	
	C.add(0),	
	insert c;	
	3	
	trigger scenario24 on Opportunity (after insert) { set <id> ids = new set<id>(); for(Opportunity op:trigger.new) { ids.add(op.accountid); }</id></id>	
	list <account>ac=[select Total_opportunities_c,Total_Amount_c,(select id,Amount from Opportunities) from the control of the co</account>	
m :	count where id=:ids];	
	for(account a:ac)	
	a. Total opportunities c=a.opportunities.size();	
	decimal sum=0;	
	for(opportunity p:a.opportunities)	
	sum=sum+p.amount;	
	A_{const} , which is a substitute of A_{const}	
	a. Total_Amountc=sum;	
	update ac:	

32. can not inser/update/delete that user account object records

```
for (Account a:Trigger.new){
    a.addError('Need to contact Amin for access');
}
```

33. whenever opportunity StageName = Closed Won automatically update the account field Rating = Hot

```
trigger updateAccountRating on opportunity (after insert, after update){
list<Id> acclds = new list<Id>();
list<Account> accounts = new list<account>();
for(opportunity o:trigger.new){
    acclds.add(o.accountId);
}
for(account a:[select Id, Rating from account where Id IN :accIds]){
    for(opportunity opp:trigger.new){
        if(opp.stage=='closed won'){
            a.Rating='hot';
            accounts.add(a);
        }
        update accounts;
}
```

34. name field is updated on account then put name field as name + Phone

```
for (Account a:Trigger.new){
   if (a.name != Trigger.oldMap.get(a.Id).name){
      a.name = a.name + trigger.oldMap.get(a.id).phone;
   }
}
```

35. Whenever account is created with annual revenue more than 50000, then add Pranay mehare as contact Name :: DONE (Check 50 k and insert contact)

```
trigger test5 on Account (before insert) {

list<Contact> ContList = new List<Contact>();
```

```
// set<Id> AccIdsSet = new Set<Id>();

for (Account Acc:Trigger.new) {

    if (Acc.AnnualRevenue > 50000) {
        Contact cont = new contact();

        Cont.AccountId = Acc.Id;
        Cont.Firstname = 'Pranay';
        Cont.Lastname = 'Mehare';
        ContList.add(Cont);
    }
}
Insert ContList;
```

36. Whenever Lead is created with lead Source as WEB then give rating as COLD otherwise HOT

```
trigger test56 on Lead (before insert) {
  for (Lead I:Trigger.New){
    if (l.leadSource == 'Web') {
        LRating = 'Cold';
    }
    Else {
        LRating = 'Hot';
    }
}
```

37. Prevent Account from deleting if it has 2 or more contacts...

```
trigger Account1 on Account (before Delete) {

set < Id> Acc Ids = new set < Id>();
    Map < Id, Account> AccMap = new Map < Id, Account>(); // need to store map

for (Account A: Trigger.old) {

    Acc Ids add(A.Id);
    }
    for (Account A: [SELECT Id, Name, (SELECT Id, Firstname, LastName FROM Contacts) FROM ACCOUNT WHERE Id IN : Acc Ids]) {

        Acc Map.put(A.Id, A);
    }
    for (Account A1: Trigger.Old) {
```

```
if (AccMap.get(A1.id).contacts.Size() >= 2){
    A1.addError("You Can not delete Account");
}
```

38. While creating or updating Lead check whether Email is already there in existing contact, if it is there then thro wan error.

//Unrelated Objects ::

```
trigger Lead1 on Lead (before insert, before update) {
   map<string, contact> contMap = new map<string, contact>();
   list<contact> contEmail = [SELECT Id, Email FROM Contact];

for (contact c:contEmail) {
    contMap.put(c.Email, c);
   }
   for (lead 1:Trigger.new) {
    if ((lemail != null) && (trigger.isInsert || (l.email != Trigger.oldMap.get(Lld).Email))) {
        if (contMap.containsKey(l.email)) {
            l.Email.addError('Email already exist');
        }
   }
}
```

39. Whenever phone is modified on account object then update contact record with phone field (other phone with old value and home phone with new value) associated with account record.

```
trigger updatePhone on Account (after update) {
    Set<Id> accIdSet = new Set<Id>();
    for(Account acc : Trigger.New) {
        if(acc.Phone!=trigger.oldmap.get(acc.Id).Phone) {
            accIdSet.add(acc.Id);
        }
    }
    list<contact> conlist = new list<contact>();
    for(Contact con : [select Id,AccountId from Contact Where AccountId In : accIdSet]) {
        con.HomePhone=trigger.newmap.get(con.AccountId).Phone;
        con.OtherPhone = trigger.oldmap.get(con.AccountId).Phone;
        conlist.add(con);
    }
}
```

```
)
```

40. Counts number of contacts on Account using trigger (Create Lookup Summary field using Trigger)

Note: Object CONTACT [Very important]

update conlist;

TRIGGER:

```
trigger ContCount on Contact (After Delete, After Insert, After Update, After Undelete) {

If (Trigger.isInsert || Trigger.isDelete || Trigger.isUpdate || Trigger.isUndelete) {

CountContact.ContContacts (Trigger.New, Trigger.Old);
}
```

HANDLER CLASS:

```
Public class CountContact {
        Public static void ContContacts (list<Contact> NewContact, List<Contact> oldContact) {
          set<id>ContAcclds = new set<Id>();
          try (
            if (NewContact != Null) {
               for (Contact con:newContact){
                 if(Con.AccountId != Null){
                    ContAccIds.add(con.AccountId);
             if (oldContact != Null){
               for (Contact con:oldContact) (
                 if(Con.AccountId != Null){
                    ContAcclds.add(con.AccountId);
             List<Account> AceList = [SELECT Id, ContCount c, (SELECT Id FROM Contacts) FROM Account
t Where Id IN :ContAccIds];
            if (AccList != Null) {
               for (Account AceValue: AceList) {
                 accvalue.ContCount c = accValue.Contacts.Size();
```

```
if(!AccList.isEmpty()){
    update AccList;
}

Catch (Exception e) {
    System.debug ('Get Message' + e.getMessage());
}
```

```
41. Recursion in Trigger
TRIGGER:
Trigger TrigCont on Contact (Before insert){
  if (trigger.isinsert && Trigger.isBefore && CreateCont.isFirst ){
                                                                                 //TRIGGER WILL RUN A
FTER ISFRIST CHECK
    CreateCont = false;
                                                                                //TO AVOID RECURSION
    createCont.CreateConts(Trigger.New);
HANDLER:
Public class CreateCont (
  public static Boolean isFirst = true;
                                                                                //TO AVOID RECURSION
  public static void (List<Contact> conList) {
    List<Contact> cList = new List<Contact> ();
    for (Contact c: conList){
      contact c = new Contact;
      c.firstName = 'Recursive';
      c.LastName = 'Trigger';
      cListadd(c);
    if (!cList.isEmpty()){
      insert cList
         1
```

1