

12. Write a trigger to Update Number of contacts filed in Account when Contact is Updated or Deleted or Undeleted.

Object: Contact

Trigger ContactTrigger on Contact (After Update, After Delete, After Undelete)

```
{  
    If (Trigger.isAfter)  
    {  
        If (Trigger.IsUpdate)  
        {  
            ContactTriggerHandler.UpadteAccInUpdate(Trigger.new ,  
Trigger.OldMap);  
        }  
        If (Trigger.IsDelete)  
        {  
            ContactTriggerHandler.UpadeteAccInDelete(Trigger.Old);  
        }  
        If (Trigger.IsUndelete)  
        {  
            ContactTriggerHandler.UpdateAccInUndelet(Trigger.new);  
        }  
    }  
}  
  
// Calling the handler Class to Execute the trigger.....
```

```
Public class ContactTriggerHandler
```

```
{
```

```
    Public static void
```

```
    UpadteAccInUpdate(List<Contact>Conlist,Map<id,Contact>Oldmap)
```

```
{
```

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

```
    For (Contact C:Conlist)
```

```
    {
```

```
        if(C.AccountId!=null)
```

```
        {
```

```
            accids.add(C.AccountId);
```

```
            If (Oldmap.ContainsKey(C.Id) && Oldmap.get(C.Id).AccountId !=  
C.AccountId)
```

```
            {
```

```
                accids.add(Oldmap.get(C.Id).AccountId);
```

```
            }
```

```
        }
```

```
    }
```

```
    Map<id,Account>Accmap = new map<id,Account>([select  
id ,Number_of_Contacts__c,(select id from contacts) from Account where id  
IN :accids]);
```

```
List<Account>Accup = new list<Account> ();
```

```
for (Account A:Accmap.Values())
```

```
{
```

```
    A.Number_of_Contacts__c = A.Contacts.size();
```

```
    Accup.add(A);
```

```
}
```

```
Update Accup;
```

}

Initially this Account has one Contact I am updating the contact to another Account see the result....

Account

Salesforce

Related

Details

We found no potential duplicates of this Account.

Cases (0)

New

Contacts (1)

New

Developer

First Na...

Last Na... Developer

Phone: 8428691423

View All

Account

Salesforce

Type

Industry

Annual Revenue

CopyBillingToShipping

Number of Contacts

1

After Updating

Account

Salesforce

Account Number

Account Site

Type

Industry

Annual Revenue

CopyBillingToShipping

Number of Contacts

0

Webs

Ticke

Own

Empl

SIC C

```

Public static void UpadeteAccInDelete(List<Contact>Conlist)
{
    set<id>accids = new set<id> ();
    for (Contact C: Conlist)
    {
        if(C.AccountId!=null)
        {
            accids.add(C.AccountId);
        }
    }

    Map<id,Account>Accmap = new map<id,Account> ([select
id ,Number_of_Contacts__c,(select id from contacts) from Account where id
IN :accids]);

    List<Account>Accup = new list<Account>();
    for (Account A: Accmap.values())
    {
        A.Number_of_Contacts__c = A.Contacts.size();
        Accup.add(A);
    }

    Update Accup;
}

```

This Account Has 5 contacts after deleting see the result...

Account

XYZ

Related

Details

We found no potential duplicates

Cases (0)

Contacts (5)

Developer

Account

XYZ

Account Number

Account Site

Type

Industry

Annual Revenue

CopyBillingToShipping

☐

Number of Contacts

5

Result:

Account

XYZ

Contact "XYZ" was deleted. [Undo](#)

Account Number

Account Site

Type

Industry

Annual Revenue

CopyBillingToShipping

☐

Number of Contacts

4

Website

Ticker Symbol

Ownership

Employees

SIC Code

```

Public static void UpdateAccInUndelet(List<Contact>Conlist)
{
    set<id>accids = new set<id> ();
    for (Contact C:Conlist)
    {
        if(C.AccountId!=null)
        {
            accids.add(C.AccountId);
        }
    }

    Map<id,Account>Accmap = new map<id,Account>([select
id ,Number_of_Contacts__c,(select id from contacts) from Account where id IN :accids]);

    List<Account>Accup = new list<Account>();
    for(Account A:Accmap.values())
    {
        A.Number_of_Contacts__c = A.Contacts.size();
        Accup.add(A);
    }
    Update Accup;
}

```

} This Account had 4 contact after restoring one contact see the result.....

Account Xyz		✓ Contact "XYZ" was deleted. Undo	✕
Account Number		Website	
Account Site		Ticker Symbol	
Type		Ownership	
Industry		Employees	
Annual Revenue		SIC Code	
CopyBillingToShipping	<input type="checkbox"/>		
Number of Contacts	4		

Restoring the Contact related to Xyz Account.....

Recycle Bin

My Recycle Bin

RestoreDeleteEmpty Org Recycle Bin

1 item selected

Record Name

Type

Deleted By

Deleted Date

1

☒

XYZ

Contact

Sitharthan V

18/03/2024, 12:21 pm

2

☐

salesforcebeatiful

Contact

Sitharthan V

16/03/2024, 12:26 pm

3

☐

poda tahilee

Contact

Sitharthan V

16/03/2024, 12:24 pm

After Restoring

Account

Xyz

Account Number		Website	
Account Site		Ticker Symbol	
Type		Ownership	
Industry		Employees	
Annual Revenue		SIC Code	
CopyBillingToShipping			
<input type="checkbox"/>			
Number of Contacts			
5			