

## Trigger Scenario :

How would you create a trigger in Salesforce that updates a custom field on the Account object to reflect the total number of related Opportunity records, specifically those with the "Closed Won" stage, every time an Opportunity is inserted, updated, deleted, or undeleted?

Trigger on Object : Opportunity

Event : After

Operation : Insert, Update, Delete, Undelete

## Opportunity Trigger :

trigger OpportunityTrigger on Opportunity (After Insert, After update, After Delete, After Undelete) {

```
OpportunityTriggerHandler obj = new OpportunityTriggerHandler();  
obj.doAction();  
}
```



Swipe the page to see handler class.

## Trigger Handler on Opportunity :

```
public class OpportunityTriggerHandler {

    List<Opportunity> triggerNew;
    List<Opportunity> triggerOld;
    Map<id,Opportunity> triggerNewMap;
    Map<id,Opportunity> triggerOldMap;

    public OpportunityTriggerHandler(){

        triggerNew = (list<Opportunity>) trigger.New;
        triggerOld = (list<Opportunity> )trigger.Old;
        triggerNewMap =(Map<id,Opportunity>) trigger.Newmap;
        triggerOldmap =(Map<id,Opportunity> )trigger.Oldmap;

    }
    public void doAction(){

        Switch on trigger.OperationType{

            when BEFORE_INSERT{

            }

            when BEFORE_UPDATE{

            }

            when AFTER_INSERT{
                countTotalChild(triggerNew);
            }

            when AFTER_UPDATE{
                countTotalChild(triggerNew);
            }

            when BEFORE_DELETE{

            }

            when AFTER_DELETE{
                countTotalChild(triggerOld);
            }

            when AFTER_UNDELETE{
                countTotalChild(triggerNew);
            }

        }

    }
}
```

```

public void countTotalChild(List<opportunity> opplist){

    set<id> accountIds = new Set<id>();
    for(Opportunity Opportunityid:opplist){
        if(opportunityId.AccountId !=Null){
            if(trigger.isUpdate){

if(triggerOldMap.get(Opportunityid.Id).StageName!=Opportunityid.StageName){

                accountIds.add(opportunityId.AccountId);
            }
        }
        else
        {
            accountIds.add(opportunityId.AccountId);
        }
    }
}

if(accountIds.size()>0){
    List<AggregateResult> aggreResult = [select
                                        count(id)Total_number_opp ,accountId,StageName
                                        From Opportunity
                                        Where accountId =:accountIds
                                        Group by accountId,StageName
                                        having StageName = 'Closed Won'];

    List<account> accountList = new List<account>();

    for(AggregateResult AggregateRecord : aggreResult){

        Account obj = new Account();
        obj.Id= (id)AggregateRecord.get('accountId'); // it is an Subject so we need to
        typecaste as ID

        obj.Count_of_Closed_Won__c=(integer)AggregateRecord.get('Total_number_opp');
        accountList.add(obj);
    }
    if(accountList.size()>0){
        update accountList;
    }
}
}
}
}

```

Output :

## 1. Insert an opportunity stage is closed won

Account

**Burlington Textiles Corp of America**

Type

Customer - Direct

Phone

(336) 222-7000

Website

www.burlington.com

Account Owner

Dhayananth C

Account Site

Industry

Apparel

Related

Details

We found no potential duplicates of this Account.

Contacts (2)

New

	<u>dhayav</u>			<u>Jack Rogers</u>	
Title:			Title:	VP, Facilities	
Email:			Email:	jrogers@burlington.com	
Phone:	(336) 222-7000		Phone:	(336) 222-7000	

View All

Opportunities (2)

New

<u>Textiles</u>		<u>Burlington Textiles Weaving Plant Generator</u>	
Stage:	Prospecting	Stage:	Closed Won
Amount:	¥50,000.00	Amount:	¥40,000.00
Close Date:	17/8/2024	Close Date:	6/11/2023

CASE STUDY 4

Phone number

☐ copy to contacts

New

DELETE LOOKUP FIELDS


Active

--None--

☐ DELETE


New

The count will be one

 Skoda Home Campaigns ▾ Leads ▾ Products ▾ Accounts ▾ Contacts ▾ Opportunities ▾ Products ▾ Price Books ▾ Contracts ▾ Sprints ▾ Reports ▾ More ▾















---

Account  
**Burlington Textiles Corp of America**

Type Customer - Direct Phone (336) 222-7000 Website www.burlington.com Account Owner  Dhayananth C G Account Site Industry Apparel

---

Related **Details**

Account Owner	 Dhayananth.C	Rating	Hot	
Account Name	Burlington Textiles Corp of America	Phone	(336) 222-7000	
Parent Account		Fax	(336) 222-8000	
Account Number	CD656092	Website	www.burlington.com	
Account Site		Ticker Symbol	BTXT	
Type	Customer - Direct	Ownership	Public	
Industry	Apparel	Employees	9,000	
Annual Revenue	\$35,00,00,000	SIC Code	546732	
Type		Count of Closed Won	1	
Sub Type				
priority				
annual revenue Half	\$17,50,00,000.00			
current generator				

### CASE STUDY 4

Phone number

  
☐ copy to contacts
 Next

### DELETE LOOKUP FIELDS

Active

--None--

☐ DELETE

Next

2. Updation

Skoda

Home

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Opportunities

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Star

Plus

Refresh

Help

Settings

Notifications

Profile

Account

Burlington Textiles Corp of America

+ Follow

Department

New Contact

New Case

Type

Customer - Direct

Phone

(336) 222-7000

Website

www.burlington.com

Account Owner

Dhayananth C

Account Site

Industry

Apparel

Related

Details

We found no potential duplicates of this Account.

Contacts (2)

New

dhayay

Title

Email

Phone

Jack Rogers

Title

Email

Phone

View All

Opportunities (2)

New

Textiles

Stage

Amount

Close Date

Burlington Textiles Weaving Plant Generator

Stage

Amount

Close Date

CASE STUDY 4

Phone number

copy to contacts

Next

DELETE LOOKUP FIELDS

Active

DELETE

Next

Changing the Textiles stage a closed won

Skoda

Home

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Star

Plus

Refresh

Help

Settings

Notifications

Profile

Account

Burlington Textiles Corp of America

+ Follow

Department

New Contact

New Case

Type

Customer - Direct

Phone

(336) 222-7000

Website

www.burlington.com

Account Owner

Dhayananth C

Account Site

Industry

Apparel

Related

Details

We found no potential duplicates of this Account.

Contacts (2)

New

dhayay

Title

Email

Phone

Jack Rogers

Title

Email

Phone

View All

Opportunities (2)

New

Textiles

Stage

Amount

Close Date

Burlington Textiles Weaving Plant Generator

Stage

Amount

Close Date

CASE STUDY 4

Phone number

copy to contacts

Next

DELETE LOOKUP FIELDS

Active

DELETE

Next

The count of closed Won is 2

Skoda

Home

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Search...

Star

Plus

Refresh

Help

Settings

Notifications

Profile

Account

Burlington Textiles Corp of America

+ Follow

Department

New Contact

New Case

Type

Customer - Direct

Phone

(336) 222-7000

Website

www.burlington.com

Account Owner

Dhayananth C

Account Site

Industry

Apparel

Related

Details

Account Owner

Dhayananth C

Rating

Hot

Account Name

Burlington Textiles Corp of America

Phone

(336) 222-7000

Parent Account

Fax

(336) 222-8000

Account Number

CD656092

Website

www.burlington.com

Account Site

Ticker Symbol

BTXT

Type

Customer - Direct

Ownership

Public

Industry

Apparel

Employees

9,000

Annual Revenue

₹35,00,00,000

SIC Code

546732

Type

Count of Closed Won

2

Sub Type

priority

annual revenue Half

₹17,50,00,000.00

current generator

Planned Amount

CASE STUDY 4

Phone number

copy to contacts

Next

DELETE LOOKUP FIELDS

Active

DELETE

Next

### 3. Deletion

#### Delete the Textiles record

The screenshot shows the Skoda CRM interface for the account "Burlington Textiles Corp of America". A green notification banner at the top states: "Opportunity 'Textiles' was deleted. Undo". The account details include: Type: Customer - Direct, Phone: (336) 222-7000, Website: www.burlington.com, Account Owner: Dhayananth C, Account Site, and Industry: Apparel. The "Related" section shows "Contacts (2)" and "Opportunities (1)". The "Contacts" list includes "dhayay" and "Jack Rogers". The "Opportunities" list includes "Burlington Textiles Weaving Plant Generator". The right sidebar contains "CASE STUDY 4" and "DELETE LOOKUP FIELDS".

Then the count will 1 because textile is deleted

The screenshot shows the "Details" view of the account "Burlington Textiles Corp of America". The account owner is Dhayananth C. The details table lists the following information:

Field	Value
Account Owner	Dhayananth C
Account Name	Burlington Textiles Corp of America
Parent Account	
Account Number	CD656092
Account Site	
Type	Customer - Direct
Industry	Apparel
Annual Revenue	\$35,00,00,000
Type	
Sub Type	
priority	
annual revenue Half	\$17,50,00,000.00
current generator	
Rating	Hot
Phone	(336) 222-7000
Fax	(336) 222-8000
Website	www.burlington.com
Ticker Symbol	BTXT
Ownership	Public
Employees	9,000
SIC Code	S46732
Count of Closed Won	1

The right sidebar contains "CASE STUDY 4" and "DELETE LOOKUP FIELDS".

4. Undelete

Go to recycle bin and restore the textile record

Skoda

Home

Campaigns

Leads

Products

Accounts

Contacts

Opportunities

Products

Price Books

Contacts

My Recycle Bin | Recycle Bin

More

Recycle Bin

My Recycle Bin

Restore

Delete

Empty Org Recycle Bin

26 Items • Sorted by Deleted Date • Filtered by My recycle bin • Updated a few seconds ago

<input type="checkbox"/>	Record Name	Type	Deleted By	Deleted Date	
<input type="checkbox"/>	Textiles	Opportunity	Dhayananth C	16/08/2024, 10:38 am	
<input type="checkbox"/>	SA	Opportunity	Dhayananth C	16/08/2024, 10:30 am	
<input type="checkbox"/>	00001020	Case	Dhayananth C	15/08/2024, 2:20 pm	
<input type="checkbox"/>	00001019	Case	Dhayananth C	15/08/2024, 2:20 pm	
<input type="checkbox"/>	Follow up	Task	Dhayananth C	15/08/2024, 12:50 am	
<input type="checkbox"/>	Follow up	Task	Dhayananth C	15/08/2024, 12:49 am	
<input type="checkbox"/>		Task	Dhayananth C	15/08/2024, 12:45 am	
<input type="checkbox"/>	00001094	Case	Dhayananth C	12/08/2024, 1:00 am	
<input type="checkbox"/>	00001096	Case	Dhayananth C	12/08/2024, 12:40 am	
<input type="checkbox"/>	00001106	Case	Dhayananth C	12/08/2024, 12:39 am	
<input type="checkbox"/>	00001132	Case	Dhayananth C	12/08/2024, 12:38 am	
<input type="checkbox"/>	00001133	Case	Dhayananth C	12/08/2024, 12:37 am	

Restore

Delete

Record restored:

Skoda

Home

Campaigns

Leads

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Accounts

Contacts

Opportunities

Products

Price Books

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Sprints

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More

Account

Burlington Textiles Corp of America

+ Follow

Department

New Contact

New Case

Type: Customer - Direct

Phone: (336) 222-7000

Website: www.burlington.com

Account Owner: Dhayananth C

Account Site:

Industry: Apparel

Related

Details

We found no potential duplicates of this Account.

Contacts (2)

New

Dhayananth C

Title:

Email:

Phone: (336) 222-7000

Jack Rogers

Title: VP, Facilities

Email: jrogers@burlington.com

Phone: (336) 222-7000

View All

Opportunities (2)

New

Textiles

Stage: Closed Won

Amount: ₹50,000.00

Close Date: 16/8/2024

Burlington Textiles Weaving Plant Generator

Stage: Closed Won

Amount: ₹40,000.00

Close Date: 6/11/2023

CASE STUDY 4

Phone number

☐ copy to contacts

Next

DELETE LOOKUP FIELDS

Active

--None--

☐ DELETE

Next

The count will be 2

Skoda

Home

Campaigns

Leads

Products

Accounts

Contacts

Opportunities

Products

Price Books

Contacts

Sprints

Reports

More

Account

Burlington Textiles Corp of America

+ Follow

Department

New Contact

New Case

Type: Customer - Direct

Phone: (336) 222-7000

Website: www.burlington.com

Account Owner: Dhayananth C

Account Site:

Industry: Apparel

Related

Details

Account Owner: Dhayananth C

Rating: Hot

Account Name: Burlington Textiles Corp of America

Phone: (336) 222-7000

Parent Account:

Fax: (336) 222-8000

Account Number: CD656092

Website: www.burlington.com

Account Site:

Ticker Symbol: BTXT

Type: Customer - Direct

Ownership: Public

Industry: Apparel

Employees: 9,000

Annual Revenue: ₹35,00,00,000

SIC Code: 546732

Type:

Count of Closed Won: 2

Sub Type:

priority:

annual revenue Half: ₹17,50,00,000.00

current generator:

CASE STUDY 4

Phone number

☐ copy to contacts

Next

DELETE LOOKUP FIELDS

Active

--None--

☐ DELETE

Next