

# Trigger Development

## ( Event - Speaker Object )

Develop a Trigger on Event - Speaker object which will throw an error if the Speaker Selected on Event - Speaker Record already have an Event against his name. i.e - For a Speaker there will be only one event at a time. Reject Duplicate Bookings

1. Q1 - In which object the Trigger will be ( Event - Speaker )
2. Q2 - What are the events ( before insert , before update )

Output - Check the duplicate bookings and throw the error

```
trigger EventSpeakerTrigger on EventSpeakers__c (before insert, before update ) {

    // Step 1 - Get the speaker id & event id
    // Step 2 - SOQL on Event to get the Start Date and Put them into a Map
    // Step 3 - SOQL on Event - Speaker to get the Related Speaker along with the Event Start Date
    // Step 4 - Check the Conditions and throw the Error

    //Step 1 - Start

    Set<Id> speakerIdsSet = new Set<Id>();
    Set<Id> eventIdsSet = new Set<Id>();

    for( EventSpeakers__c es : Trigger.New ){
        speakerIdsSet.add(es.Speaker__c);
        eventIdsSet.add(es.Event__c);
    }
    //Step 1 - End

    // Step 2 Start
    Map<Id, DateTime> requestedEvents = new Map<Id, DateTime>();

    List<Event__c> relatedEventList = [Select Id, Start_DateTime__c From Event__c
                                      Where Id IN : eventIdsSet];

    for(Event__c evt : relatedEventList ){
        requestedEvents.put(evt.Id, evt.Start_DateTime__c);
    }
    // Step 2 End

    // Step 3 - Start
    List<EventSpeakers__c> relatedEventSpeakerList = [ SELECT Id, Event__c, Speaker__c,
                                                         Event__r.Start_DateTime__c
                                                         From EventSpeakers__c
                                                         WHERE Speaker__c IN : speakerIdsSet];

    // Step 3 - End
```

```

// Step 4 - Start
for( EventSpeakers__c es : Trigger.New ){ // - Salesforce Geek

    DateTime bookingTime = requestedEvents.get(es.Event__c);
    // DateTime for that event which is associated with this new Event-Speaker Record

    for(EventSpeakers__c es1 : relatedEventSpeakerList) {
        if(es1.Speaker__c == es.Speaker__c && es1.Event__r.Start_DateTime__c == bookingTime ){
            es.Speaker__c.addError('The speaker is already booked at that time');
            es.addError('The speaker is already booked at that time');
        }
    }

}

// Step 4 - End
}

```

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	Event Speaker ↑	Event	Speaker	Record ID ↑
1	A-0000	EVT - 000003	Hatice Kubra	a024x000008Wo1kAAC
2	A-0006	EVT - 000003	Salesforce Geek	a024x000008X2zAAK

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Event Speaker ↑

1 A-0000

2 A-0006

### New Event - Speaker

Information

Event Speaker

- Event
  - EVT - 0
- Speaker
  - Salesfor

The speaker is

**We hit a snag.**

Review the errors on this page.

- The speaker is already booked at that time

Review the following fields

- [Speaker](#)

Cancel Save & New Save