









Trigger Class



Apex Reference Guide / System Namespace / OrgLimits Class

Trigger Class

Use the Trigger class to access run-time context information in a trigger, such as the type of trigger or the list of sObject records that the trigger operates on.

Namespace

System

Trigger Context Variables

The Trigger class provides the following context variables.

Variable	Usage
isExecuting	Returns true if the current context for the Apex code is a trigger, not a Visualforce page, a Web service, or an executeanonymous() API call.
isInsert	Returns true if this trigger was fired due to an insert operation, from the Salesforce user interface, Apex, or the API.
isUpdate	Returns true if this trigger was fired due to an update operation, from the Salesforce user interface, Apex, or the API.
isDelete	Returns true if this trigger was fired due to a delete operation, from the Salesforce user interface, Apex, or the API.
isBefore	Returns true if this trigger was fired before any record was saved.
isAfter	Returns true if this trigger was fired after all records were saved.
isUndelete	Returns true if this trigger was fired after a record is recovered from the Recycle Bin. This recovery can occur after an undelete operation from the Salesforce user interface, Apex, or the API.
new	Returns a list of the new versions of the sObject records.
	This sObject list is only available in insert, update, and undelete triggers, and the records can only be modified in before triggers.
пеwМар	A map of IDs to the new versions of the sObject records.
	This map is only available in before update, after insert, after update, and after undelete triggers.
old	Returns a list of the old versions of the sObject records.
	This sObject list is only available in update and delete triggers.



This map is only available in update and delete triggers.

OperationType

Returns an enum of type System.TriggerOperation corresponding to the current operation.

Possible values of the System.TriggerOperation enum are: BEFORE_INSERT,
BEFORE_UPDATE, BEFORE_DELETE, AFTER_INSERT, AFTER_UPDATE, AFTER_DELETE, and
AFTER_UNDELETE. If you vary your programming logic based on different trigger types,
consider using the switch statement with different permutations of unique trigger execution enum states.

Size

The number of records processed in a trigger invocation. DML operations that include over 200 records are processed in batches, and the trigger is invoked for each batch.
Trigger.size includes only the number of records in the current batch, not the total number of records in the DML operation.



Note

The record firing a trigger can include an invalid field value, such as a formula that divides by zero. In this case, the field value is set to <code>null</code> in these variables:

- new
- newMan
- old
- oldMap

Example

For example, in this simple trigger, Trigger.new is a list of sObjects and can be iterated over in a for loop. It can also be used as a bind variable in the IN clause of a SOQL query.

This trigger uses Boolean context variables like Trigger.isBefore and Trigger.isDelete to define code that only executes for specific trigger conditions:



// with the Trigger.new list. for (Account a : Trigger.new) { if (a.name == 'bad') { a.name.addError('Bad name'); if (Trigger.isInsert) { for (Account a : Trigger.new) { System.assertEquals('xxx', a.accountNumber); System.assertEquals('industry', a.industry); System.assertEquals(100, a.numberofemployees); System.assertEquals(100.0, a.annualrevenue); a.accountNumber = 'yyy'; $\ensuremath{//}$ If the trigger is not a before trigger, it must be an after trigger. } else { if (Trigger.isInsert) { List<Contact> contacts = new List<Contact>(); for (Account a : Trigger.new) { if(a.Name == 'makeContact') { contacts.add(new Contact (LastName = a.Name, AccountId = a.Id)); } insert contacts; }}}

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