

# Salesforce: SystemModstamp

There is one standard field in Salesforce that many of us not aware of, and not really use it, it is available in standard and custom object which is called as **SystemModstamp**. So what is SystemModstamp field? It is a date time field. Is this similar with LastModifiedDate? Yes in common, but sometimes it may differ.

**LastModifiedDate** is the date and time when a record was last modified by a user.

**SystemModstamp** is the date and time when a record was last modified by a user or by an automated process (such as a trigger). In this context, "trigger" refers to Salesforce code that runs to implement standard functionality, rather than an "Apex trigger".

As a result, LastModifiedDate and SystemModstamp will differ when automated processes update the records, which will happen in the following scenarios (asynchronously in some cases):

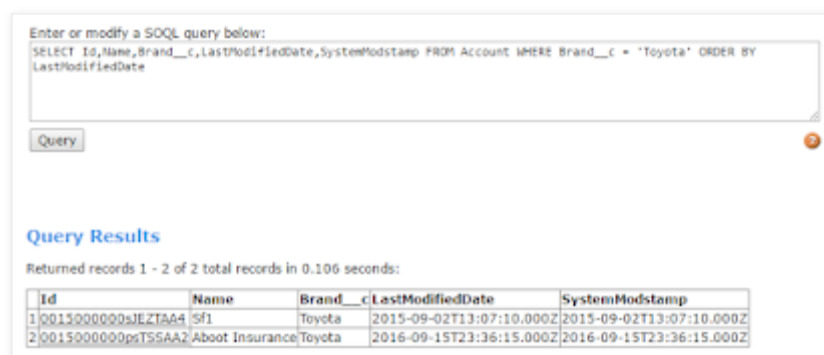
- a) The **archive date is extended** to greater than 365 days.
- b) An existing **picklist value is updated** (not replaced with an existing picklist value).
- c) A contact's e-mail address is flagged as per the **Email Bounce Management** configuration.
- d) The **LastActivityDate** field is modified
- e) **Roll-up summary field** is created, which will update all the parent records' SystemModstamp asynchronously. Recalculation will also take place if the Summary Type is updated.
- f) Some Salesforce Internal backend processes also update SystemModstamp as SystemModstamp is used internally to signal that a record (or related data) may have changed and that internal processes may need to synchronize themselves to the new record data.

## Sample:

I have a custom picklist field in Account called Brand\_\_c. I will change one of the picklist value from Toyota to Honda. This field is also set for tracking.

Before I do that, let me query all the records where brand is Kia

```
SELECT Id,Name,Brand__c,LastModifiedDate,SystemModstamp FROM Account WHERE Brand__c = 'Toyota' ORDER BY LastModifiedDate
```



The screenshot shows the Salesforce Developer Console interface. At the top, there is a text area for entering or modifying a SOQL query. Below the text area is a 'Query' button. The query entered is: `SELECT Id,Name,Brand__c,LastModifiedDate,SystemModstamp FROM Account WHERE Brand__c = 'Toyota' ORDER BY LastModifiedDate`. Below the query area, the 'Query Results' section is displayed. It shows 'Returned records 1 - 2 of 2 total records in 0.106 seconds:'. Below this, there is a table with 5 columns: Id, Name, Brand\_\_c, LastModifiedDate, and SystemModstamp. The table contains two rows of data.

Id	Name	Brand__c	LastModifiedDate	SystemModstamp
100150000000sJEZTA04	SFI	Toyota	2015-09-02T13:07:10.000Z	2015-09-02T13:07:10.000Z
200150000000psT5SAA2	About Insurance	Toyota	2016-09-15T23:36:15.000Z	2016-09-15T23:36:15.000Z

As you see here, all records have LastModifiedDate = SystemModstamp

Now, let me update the picklist value from Toyota to Honda. Salesforce by default will auto update all records where Brand\_\_c match Toyota to Honda.

Then let's do another query.

```
SELECT Id,Name,Brand__c,LastModifiedDate,SystemModstamp FROM Account WHERE Brand__c = 'Honda'
```

Enter or modify a SOQL query below:

SELECT Id,Name,Brand\_\_c,LastModifiedDate,SystemModstamp FROM Account WHERE Brand\_\_c = 'Honda' ORDER BY LastModifiedDate

Query

Query Results

Returned records 1 - 2 of 2 total records in 0.089 seconds:

Id	Name	Brand__c	LastModifiedDate	SystemModstamp
1 0015000000sJEZTAA4	Sf1	Honda	2015-09-02T13:07:10.000Z	2016-09-15T23:39:03.000Z
2 0015000000psTSSAA2	About Insurance	Honda	2016-09-15T23:36:15.000Z	2016-09-15T23:39:03.000Z

Notice here that SystemModstamp is updated, but LastModifiedDate stay the same. As this field also enable for tracking, let's check to Account History.

Account History			
Date	User	Connection	Action
5/9/2014 10:22 AM	<a href="#">Johan Yu</a>		Changed Billing State/Province to DKI.
5/5/2014 4:59 PM	<a href="#">Johan Yu</a>		Changed Industry to Agriculture.
5/5/2014 4:57 PM	<a href="#">Johan Yu</a>		Changed Website to <a href="#">www.dunia.com</a> .
			Created.

The value change is not tracked and Last Modified By also stay the same.

Another sample here when user try to send email to invalid email address.

Contact Owner

 [Johan Yu \[Change\]](#)

Name

Ki La

Email

johanyujhhh@yahoo.com  
 [\[ Confirm Email Address \]](#)

Mobile

QR Code

Email Bounce Management will mark the email address as invalid, this will update SystemModstamp, but the LastModifiedDate will stay the same.

Enter or modify a SQL query below:

```
Select Id,Name,LastModifiedDate,SystemModstamp From Contact Where Id = '0035000002doJR0'
```

Query

### Query Results

Returned records 1 - 1 of 1 total record in 0.103 seconds:

	<b>Id</b>	<b>Name</b>	<b>LastModifiedDate</b>	<b>SystemModstamp</b>
1	0035000002doJR0AAM	Ki La	2016-06-11T23:21:29.000Z	2016-08-04T00:49:59.000Z