

Creating Parent and Child Records in a Single Statement Using External Id

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You can use external ID fields as foreign keys to create parent and child records of different sObject types in a single step instead of creating the parent record first, querying its ID, and then creating the child record. To do this:

- *Create the child sObject and populate its required fields, and optionally other fields.*
- *Create the parent reference sObject used only for setting the parent foreign key reference on the child sObject. This sObject has only the external ID field defined and no other fields set.*
- *Set the foreign key field of the child sObject to the parent reference sObject you just created.*
- *Create another parent sObject to be passed to the insert statement. This sObject must have the required fields (and optionally other fields) set in addition to the external ID field.*
- *Call insert by passing it an array of sObjects to create. The parent sObject must precede the child sObject in the array, that is,the array index of the parent must be lower than the child's index.*

You can create related records that are up to **10** levels deep. Also, the related records created in a single call must have **different sObject types**.

//Creating Parent and Child Records in a Single Statement Using Foreign Keys(External Id)

// This sample requires an external ID text field on Account called *MyExtID* .

public class ParentChildSample{

public static void InsertParentChild(){

 Date dt = Date.today();

 dt=dt.addDays(7);

 Opportunity opp1 = new Opportunity(Name='OpportunityWithAccountInsert',
 StageName='Prospecting',CloseDate=dt);

 // Create the parent reference.

 // Used only for foreign key reference

 // and doesn't contain any other fields.

 Account accountReference = new Account(MyExtID__c='SAP111111');

 opp1.Account = accountReference;

 // Create the Account object to insert.

 // Same as above but has Name field.

 // Used for the insert.

 Account parentAccount = new Account(Name='Hallie',MyExtID__c='SAP111111');

 // Create the account and the opportunity.

 Database.SaveResult[] results = Database.insert(new SObject[]{parentAccount,opp1});

 // Check results.

 for (Integer i = 0; i < results.size(); i++) {

 if (results[i].isSuccess()) {

 System.debug('Successfully created ID: ' + results[i].getId());

 } else {

 System.debug('Error: could not create sobject ' + 'for array element ' + i + '.');

 System.debug(' The error reported was: ' + results[i].getErrors()[0].getMessage() + '\n');

 }

 }

}

}