How to insert Parent and Child records in a Single DML Statement?

It can be done with help of **External Id**.

Use a 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.**Inserting Standard objects (Parent and Child) records in a Single DML Statement:**

```
1  Contact con = new Contact(lastName='TheBlogReaders');
2  con.Email = 'info@theblogreaders.com';
3  // Create the parent reference.
4  // Used only for foreign key reference
5  // and doesn't contain any other fields. so create a AccountRef__c as a custom field wit
6  Account accReference = new Account(AccountRef__c='123456789');
7  con.Account = accReference;
8  // Create the Account object to insert.
9  // Same as above but has Name and necessary mandatory fields for inserting the parent red
10 Account acc = new Account(Name='Hallie', AccountRef__c='123456789');
11 // Create the Account and the Contact in single statement using database.insert or insert
12 Database.SaveResult[] results = Database.insert(new SObject[] {acc, con});
13 // Check results.
14 for (Integer i = 0; i < results.size(); i++) {
15 if (results[i].isSuccess()) {
16 System.debug('Successfully Created ID: '+ results[i].getId());
17 } else {
18 System.debug('Error: could not create sobject '+ 'for array element ' + i + '.');
19 System.debug(' The error reported was: '+ results[i].getErrors()[0].getMessage() + '\n')
20 }
21 }
```

Inserting Custom objects (Parent and Child) records in a Single DML Statement:

here assume Parent__c and Child__c is a custom objects:

create a External Id in Parent__c object called Parent_Ref__c.

```
1  Child__c c = new Child__c();
2  c.Name = 'ChildRecord1';
3  // Create the parent reference.
4  // Used only for foreign key reference
5  // and doesn't contain any other fields. so create a Parent_Ref__c as a custom field with
6  Parent__c parentReference = new Parent__c(p.Parent_Ref__c = 'abc1234');
7  c.Parent__r = parentReference;    //here make sure the field should be relations (__r) fie
8  // Create the Parent__c object to insert.
9  // Same as above but has Name and necessary mandatory fields for inserting the parent red
10 Parent__c p = new Parent__c();
11 Name ='TheBlogReaders';
12 p.Parent_Ref__c = 'abc1234';
13 // Create the Parent__c and the Child__c in single statement using database.insert or ins
14 Database.SaveResult[] results = Database.insert(new SObject[] { p, c });
15 // Check results.
16 for (Integer i = 0; i < results.size(); i++) {
17 if (results[i].isSuccess()) {
18 System.debug('Successfully Created ID: '+ results[i].getId());
19 } else {
20 System.debug('Error: could not create sobject '+ 'for array element ' + i + '.');
21 System.debug(' The error reported was: '+ results[i].getErrors()[0].getMessage() + '\n')
22 }
23 }
```