



# Schema Class

Contains methods for obtaining schema describe information.

## Namespace

System

## Schema Methods

The following are methods for `Schema`. All methods are static.

- [getGlobalDescribe\(\)](#)  
Returns a map of all sObject names (keys) to sObject tokens (values) for the standard and custom objects defined in your organization.
- [describeDataCategoryGroups\(sObjectNames\)](#)  
Returns a list of the category groups associated with the specified objects.
- [describeSObjects\(sObjectTypes\)](#)  
Describes metadata (field list and object properties) for the specified sObject or array of sObjects.
- [describeSObjects\(SObjectTypes, SObjectDescribeOptions\)](#)  
Describes metadata such as field list and object properties for the specified list of SObjects. The default describe option for this method is `SObjectDescribeOptions.DEFERRED`, which indicates lazy initialization of describe attributes on first use.
- [describeTabs\(\)](#)  
Returns information about the standard and custom apps available to the running user.
- [describeDataCategoryGroupStructures\(pairs,topCategoriesOnly\)](#)  
Returns available category groups along with their data category structure for objects specified in the request.

### getGlobalDescribe()

Returns a map of all sObject names (keys) to sObject tokens (values) for the standard and custom objects defined in your organization.

#### Signature

```
public static Map<String, Schema.SObjectType> getGlobalDescribe()
```

#### Return Value

Type: [Map<String, Schema.SObjectType>](#)

#### Usage

For more information on accessing SObjects, see [Accessing All sObjects](#).

#### Example





## describeDataCategoryGroups(sObjectNames)

Returns a list of the category groups associated with the specified objects.

### Signature

```
public static List<Schema.DescribeDataCategoryGroupResult>  
describeDataCategoryGroups(List<String> sObjectNames)
```

### Parameters

#### *sObjectNames*

Type: List<String>

### Return Value

Type: List<Schema.DescribeDataCategoryGroupResult>

### Usage

You can specify one of the following sObject names:

- KnowledgeArticleVersion—to retrieve category groups associated with article types.
- Question—to retrieve category groups associated with questions.

For more information and code examples using describeDataCategoryGroups, see [Accessing All Data Categories Associated with an sObject](#).

For additional information about articles and questions, see “Work with Articles and Translations” in the Salesforce online help.

## describeSObjects(sObjectTypes)

Describes metadata (field list and object properties) for the specified sObject or array of sObjects.

### Signature

```
public static List<Schema.DescribeSObjectResult> describeSObjects(List<String> sObjectTypes)
```

### Parameters

#### *sObjectTypes*

Type: List<String>

The *sObjectTypes* argument is a list of sObject type names you want to describe.

### Return Value

Type: List<Schema.DescribeSObjectResult>

### Usage

This method is similar to the `getDescribe` method on the `Schema.sObjectType` token. Unlike the `getDescribe` method, this method allows you to specify the sObject type dynamically and describe more than one sObject at a time.

You can first call `getGlobalDescribe` to retrieve a list of all objects for your organization, then iterate through the list and use `describeSObjects` to obtain metadata about individual objects.

### Example

```
Schema.DescribeSObjectResult[] descResult = Schema.describeSObjects(  
    new List<String> { Schema.sObjectType.Question, Schema.sObjectType.KnowledgeArticleVersion }  
);
```



Describes metadata such as field list and object properties for the specified list of SObjects. The default describe option for this method is `SObjectDescribeOptions.DEFERRED`, which indicates lazy initialization of describe attributes on first use.

### Signature

```
public static List<Schema.DescribeSObjectResult> describeSObjects(List<String> SObjectTypes,  
Object SObjectDescribeOptions)
```

### Parameters

#### *SObjectTypes*

Type: `List<String>`

The list of SObject types to describe.

#### *SObjectDescribeOptions*

Type: `Object`

The effective describe option used for the SObject.

### Return Value

Type: `List<Schema.DescribeSObjectResult>`

## describeTabs()

Returns information about the standard and custom apps available to the running user.

### Signature

```
public static List<Schema.DescribeTabSetResult> describeTabs()
```

### Return Value

Type: `List<Schema.DescribeTabSetResult>`

### Usage

An app is a group of tabs that works as a unit to provide application functionality. For example, two of the standard Salesforce apps are “Sales” and “Service.”

The `describeTabs` method returns the minimum required metadata that can be used to render apps in another user interface. Typically, this call is used by partner applications to render Salesforce data in another user interface, such as in a mobile or connected app.

In the Salesforce user interface, users have access to standard apps (and can also have access to custom apps) as listed in the Salesforce app menu at the top of the page. Selecting an app name in the menu allows the user to switch between the listed apps at any time.

#### Note

The “All Tabs” tab isn’t included in the list of described tabs.

### Example

This example shows how to call the `describeTabs` method.

```
Schema.DescribeTabSetResult[] tabSetDesc = Schema.describeTabs();
```



```
// Get tab set describes for each app
List<Schema.DescribeTabSetResult> tabSetDesc = Schema.describeTabs();

// Iterate through each tab set describe for each app and display the info
for(DescribeTabSetResult tsr : tabSetDesc) {
    String appLabel = tsr.getLabel();
    System.debug('Label: ' + appLabel);
    System.debug('Logo URL: ' + tsr.getLogoUrl());
    System.debug('isSelected: ' + tsr.isSelected());
    String ns = tsr.getNamespace();
    if (ns == '') {
        System.debug('The ' + appLabel + ' app has no namespace defined.');
```

```
    }
    else {
        System.debug('Namespace: ' + ns);
    }
}

// Display tab info for the Sales app
if (appLabel == 'Sales') {
    List<Schema.DescribeTabResult> tabDesc = tsr.getTabs();
    System.debug('-- Tab information for the Sales app --');
    for(Schema.DescribeTabResult tr : tabDesc) {
        System.debug('getLabel: ' + tr.getLabel());
        System.debug('getColors: ' + tr.getColors());
        System.debug('getIconUrl: ' + tr.getIconUrl());
        System.debug('getIcons: ' + tr.getIcons());
        System.debug('getMiniIconUrl: ' + tr.getMiniIconUrl());
        System.debug('getSubjectName: ' + tr.getSubjectName());
        System.debug('getUrl: ' + tr.getUrl());
        System.debug('isCustom: ' + tr.isCustom());
    }
}
}
```

```
// Example debug statement output
// DEBUG|Label: Sales
// DEBUG|Logo URL: https://MyDomainName.my.salesforce.com/img/seasonLogos/2014_winter_aloha
// DEBUG|isSelected: true
// DEBUG|The Sales app has no namespace defined.// DEBUG|-- Tab information for the Sales
// (This is an example debug output for the Accounts tab.)
// DEBUG|getLabel: Accounts
// DEBUG|getColors: (Schema.DescribeColorResult[getColor=236FBD;getContext=primary;getTheme=
// Schema.DescribeColorResult[getColor=236FBD;getContext=primary;getTheme=theme3;],
// Schema.DescribeColorResult[getColor=236FBD;getContext=primary;getTheme=theme2;])
// DEBUG|getIconUrl: https://MyDomainName.my.salesforce.com/img/icon/accounts32.png
// DEBUG|getIcons: (Schema.DescribeIconResult[getContentType=image/png;getHeight=32;getThe
// getUrl=https://MyDomainName.my.salesforce.com/img/icon/accounts32.png;getWidth=32
// Schema.DescribeIconResult[getContentType=image/png;getHeight=16;getTheme=theme3;
// getUrl=https://MyDomainName.my.salesforce.com/img/icon/accounts16.png;getWidth=16
// DEBUG|getMiniIconUrl: https://MyDomainName.my.salesforce.com/img/icon/accounts16.png
// DEBUG|getSubjectName: Account
// DEBUG|getUrl: https://MyDomainName.my.salesforce.com/001/o
// DEBUG|isCustom: false
```

## describeDataCategoryGroupStructures(pairs,topCategoriesOnly)

Returns available category groups along with their data category structure for objects specified in the request.

### Signature

```
public static List<Schema.DescribeDataCategoryGroupStructureResult> describeDataCategory
GroupStructures(List<Schema.DataCategoryGroupSubjectTypePair> pairs, Boolean topCategoriesOnly)
```

### Parameters

*pairs*



Visibility” in Salesforce Help.

*topCategoriesOnly*

Type: [Boolean](#)

Use `true` to return only the top visible category and `false` to return all the visible categories, depending on the user's data category group visibility settings. For more information on data category group visibility, see [Data Category Visibility](#) in Salesforce Help.

**Return Value**

Type: [List<Schema.DescribeDataCategoryGroupStructureResult>](#)

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