

# Who has what permission?

## A few housekeeping items

The permission set object is an amalgamation of Permission Sets and Profiles. You can determine if a record is a profile by using the "IsOwnedByProfile" field. You can also query on the permission set permissions to limit results.

[SOAP API Developer Documentation](#)

## Field Level Security (FLS)

[SOAP API Developer Documentation](#)

### Who has access to a field by a specific Profile?

```
SELECT Id, Field, PermissionsRead, PermissionsEdit, SubjectType, Parent.Profile.Name
FROM FieldPermissions
WHERE Parent.Profile.Name = 'System Administrator' AND Field = 'Account.Type'
```

### Who has access to a field by specific Permission Set?

```
SELECT Id, Field, PermissionsRead, PermissionsEdit, SubjectType, Parent.Profile.Name,
Parent.Label
FROM FieldPermissions
WHERE Field = 'Account.Type'
```

### Who has access to a specific field?

The absence of records indicates that they have *no* access to that field.

```
SELECT Id, Field, PermissionsRead, PermissionsEdit, SubjectType, Parent.Profile.Name,
Parent.Label
FROM FieldPermissions
WHERE Field = 'Account.Type'
```

### Who does not have access to a field?

```
SELECT Id, Label, Profile.Name
FROM PermissionSet
WHERE ID NOT IN ( SELECT ParentID
                  FROM FieldPermissions
                  WHERE Field = 'Account.Type' )
```

# Object Level Security

[SOAP API Developer Documentation](#)

## Who has access to an object by a specific Profile?

```
SELECT Id, Field, PermissionsRead, PermissionsCreate, PermissionsEdit, PermissionsDelete,
PermissionsViewAllRecords, PermissionsModifyAllRecords, SubjectType, Parent.Profile.Name
FROM ObjectPermissions
WHERE Parent.Profile.Name = 'System Administrator' AND SubjectType = 'Account'
```

## Who has access to an object by a specific Permission Set?

```
SELECT Id, Field, PermissionsRead, PermissionsCreate, PermissionsEdit, PermissionsDelete,
PermissionsViewAllRecords, PermissionsModifyAllRecords, SubjectType, Parent.Label
FROM ObjectPermissions
WHERE Parent.Label = 'Account Permission Set' AND SubjectType = 'Account'
```

## Who has access to a specific object?

The absence of records indicates that they have *no* access to that object.

```
SELECT Id, Field, PermissionsRead, PermissionsCreate, PermissionsEdit, PermissionsDelete,
PermissionsViewAllRecords, PermissionsModifyAllRecords, SubjectType, Parent.Label,
Parent.Profile.Name
FROM ObjectPermissions
WHERE SubjectType = 'Account'
```

## Who does not have access to an object?

```
SELECT Id, Label, Profile.Name
FROM PermissionSet
```

```
WHERE ID NOT IN ( SELECT ParentID
                  FROM ObjectPermissions
                  WHERE SubjectType = ' Account' )
```

# Setup Entity Access

This object is for querying many object permissions in Salesforce. Those are:

Type	Object API Name	Name Field
Apex Class	ApexClass	Name
Visualforce Page	ApexPage	Name
Custom Metadata Type	EntityDefinition	QualifiedAPIName
Custom Setting	EntityDefinition	QualifiedAPIName
Applications (Apps in app launcher)	AppMenuItem	Name
Connected Applications	ConnectedApplication	Name
Custom Permission	CustomPermission	MasterLabel

## [SOAP API Developer Documentation](#)

The process is the same for all of the above in the below examples. Just replace the object API name with the one for which you are looking to find permissions and the "Name" value in the where clause with the appropriate name field in the table above. For Custom Settings, use "IsCustomSetting" to filter. For Custom Metadata types, add QualifiedApiName LIKE '%\_\_mdt' to the filter.

```
SELECT Parent.Label, Parent.Profile.Name
FROM SetupEntityAccess
WHERE SetupEntityID IN ( SELECT Id
                        FROM ApexClass
                        WHERE Name = ' MyGreatApexClass' )
```

## Custom Tab Settings

Pro-tip: You can update the settings from here with "Default On" or "Default Off". Deleting the row will make it "Hidden".

## [Tooling API Documentation](#)

Name is prepended with "standard-" for standard objects. Name is the API name of a custom object.

```
SELECT Parent.Name, Parent.Profile.Name, Visibility, Name
FROM PermissionSetTabSetting
WHERE Name = 'standard-Account'
```

## Profile Page Layout Settings

The below are using the tooling API.

[Tooling API Documentation](#)

## Standard Objects

```
SELECT Layout.Name, TableEnumOrId, Profile.Name, RecordType.Name
FROM ProfileLayout
WHERE TableEnumOrId = 'Account'
```

## Custom Objects

First, retrieve the "Durable ID" of the object:

```
SELECT DurableId
FROM EntityDefinition
WHERE QualifiedAPIName = 'Account_Retention_Rate__c'
```

Then, query the Page Layout Settings:

```
SELECT Layout.Name, TableEnumOrId, Profile.Name, RecordType.Name
FROM ProfileLayout
WHERE TableEnumOrId = '01Io00000001KyaB'
```

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