

# How to Write your First SOQL Query?

SOQL Statements and Salesforce Object Search language (SOSL) statements can be evaluated by surrounding the statement with square brackets [ ]. [Salesforce Apex](#) code contains many programming elements like Variable declaration, **SOQL Query**, Control Structure, Array (list), Data (DML) operation.

SOQL and SOSL queries are case-insensitive like Salesforce Apex. A SOQL query is the equivalent of a SELECT SQL statement and searches the organisation database. We suggest salesforce user to use Salesforce keywords in uppercase and fields in lowercase.

## When is SOQL Query used?

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1. SOQL queries is used to retrieve data from single object or from multiple objects.
2. SOQL is used to count the number of records that meets the evaluation criteria.
3. It is used to sort results.
4. It is used to retrieve data from number, data and checkbox fields.
5. Salesforce Object query language (SOQL) is used in the queryString parameter in the query ( ) call.
6. In Apex statement.
7. In visualforce controllers and getter methods.
8. In the schema explorer of the force.com IDE.

## How to Write first SOQL Query in Force.com Explorer?

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In Salesforce Apex coding, the API names of the object are required in SOQL. SOQL statements evaluates to a list of sObjects, a single sObject, or an Integer for count method queries. Before getting started with writing our first SOQL statements we need to install Force.com Explorer. We can also use third party tools to write and execute queries in Salesforce.com.

### SOQL Statement

```
Select PHONE, Name From ACCOUNT
```

Enter Your Query

```
Select PHONE, Name From ACCOUNT
```

Phone	Name
(650) 867-3450	GenePoint
+44 191 4956203	United Oil & Gas, UK
(650) 450-8810	United Oil & Gas, Singapore
(512) 757-6000	Edge Communications
(336) 222-7000	Burlington Textiles Corp of America
(014) 427-4427	Pyramid Construction Inc.
(785) 241-6200	Dickenson plc
(312) 596-1000	Grand Hotels & Resorts Ltd
(503) 421-7800	Express Logistics and Transport
(520) 773-9050	University of Arizona
(212) 842-5500	United Oil & Gas Corp.
(415) 901-7000	sForce

As shown above, Phone number and name for standard field of the Account object are extracted.

```
Select Name, Phone, AnnualRevenue, CustomerPriority__c FROM ACCOUNT
```

### Enter Your Query

Query
▼

```
Select Name, Phone, AnnualRevenue, CustomerPriority__c FROM ACCOUNT
```



Custom Field

Elapsed Time: 00 : 00 : 00 : 7630

CustomerPriority__c	Name	Phone	AnnualRevenue
Low	GenePoint	(650) 867-3450	30000000
High	United Oil & Gas, UK	+44 191 4956203	
High	United Oil & Gas, S.	(650) 450-8810	
Medium	Edge Communicati..	(512) 757-6000	139000000
	Burlington Textiles ...	(336) 222-7000	350000000
	Pyramid Constructi..	(014) 427-4427	950000000

Low	Dickenson plc	(785) 241-6200	50000000
High	Grand Hotels & Re...	(312) 596-1000	500000000
Medium	Express Logistics a..	(503) 421-7800	950000000
Medium	University of Arizona	(520) 773-9050	
High	United Oil & Gas C..	(212) 842-5500	5600000000
	sForce	(415) 901-7000	

As shown in above example, we fetching custom fields in the Standard Object. Here Name and Phone are Standard fields where CustomePriority\_\_c is the custom field.

```
SELECT name,State__c, College__C FROM Student__c
```

## Enter Your Query

```
Select name,State__c, College__C FROM Student__c
```

Name	State__c	College__c
Joshi	Assam	IIT Delhi
Ajay	Andhra Pradesh	IIT Madras (Chennai)
Neerja	Karnataka	IIT Roorkee

As shown in above SOQL statement, `Student__c` is a custom object where `State__c` and `College__c` are custom fields. Student name , state and college details are retrieved from the custom object `Student__c`.

## Conclusion

In this [Salesforce Developer Tutorial](#), we learned how to write our first SOQL Query.

[Home](#)

◆ [What is SOQL?](#)

## Learn Apex : Introduction to SOQL.

◆ Difference between SOQL and Dynamic SOQL

◆ How to Enable Developing Mode in Salesforce?

◆ How to use Salesforce developer Console.

◆ SOQL Syntax and Classes.

⇒ **How to write First SOQL Statement using Force.com Explorer?.**

◆ How to know API name for objects and fields

◆ Difference between Static and Dynamic SOQL.

◆ Alias Notation.

◆ SOQL - IN Operator..

◆ Difference between SOQL and SOSL.

## Learn Apex - SOSL