

What is SOQL (Salesforce Object Query Language)

SOQL means Salesforce Object Query Language which is to query the records from the database.com based on the requirement. [Salesforce Apex](#) and SOQL (Salesforce Object Query Language) together give the developers powerful tools for managing [Salesforce](#) data and processes of their application.

- [Records](#) are pertaining to single sObject.
- Using Salesforce Object Query Language developers can fetch and process a large amount of data in an easy, human-readable query language.
- [Salesforce Object](#) Query Language is very similar to SQL (Structured Query Language) used in other database systems.
- It doesn't support all advanced features of the SQL.

Learn Salesforce Apex – SOQL features & Limitations.

1. Salesforce Object Query Language is case sensitive and very easy to understand.
2. It is similar to SQL and helps to optimize code.
3. It reduces workload time.
4. Salesforce objects data can be retrieved or extracted into Excel sheets.
5. It returns records.
6. Records are stored in a collection.

Salesforce Apex: SOQL limitations

1. By default, 20,000 characters for a Statement.
2. The number of SOQL rows – 50k.
3. The number of SOSL Queries – 20.
4. The number of DML Statements – 150.
5. The number of DML Rows – 10k.
6. The number of Script Statements – 200k.
7. Maximum Heap size – 3000k.
8. The number of callout – 10.
9. The number of Email invocation – 10.
10. Number of Filed describes – 100.
11. The number of Child [relationships](#) – 100.
12. The number of picklists describes – 100.
13. The number of future calls – 10.

Writing first SOQL Statement?

Salesforce Object data can be retrieved using [SOQL queries](#) To execute Salesforce Object Query Language queries we must install Force.com explorer software in our local system. And also we can use Force.com IDE. It is a powerful client application used to create, modify, test and develop Force.com application.

- Learn How to install Force.com Explorer.
- How to install Force.com IDE.

SOQL example Statement.

```
Select Id, Name From  
Account
```

```
Select Id, Name From Account
```

As shown above, fetching **Record Id** and **Name** from Standard object **Account**. To fetch records from Custom objects we must use **__c** at the end of the custom Object name.

SOQL Example Statement.

```
SELECT Name,  
Subject1__c FROM
```

```
SELECT Name, Subject1__c FROM Student__c
```

From the above example, **Student__c** is the custom object and we fetching Record name and **Subject1** marks details from **Student object**.

In this [Salesforce Developer tutorial](#), we learn about [enabling development mode in Salesforce](#), SOQL basics, [SOQL Syntax](#) tools like Force.com Explorer and Force.com IDE, How to install Force.com Explorer, How to Install Force.com IDE, basics, Syntax, and Statements. [Salesforce Apex](#) and SOQL together give the developers powerful tools for managing the data and processes of their application.

[Learn SOQL \(Salesforce Object Query Language\) – APEX Tutorials.](#)

LEARN APEX- SOQL

Salesforce Developer Tutorials – SOQL Basics

1. [How to Enable Developing Mode in Salesforce?](#)
2. [Overview About developer Console.](#)
3. [SOQL Syntax and Classes.](#)
4. [How to write First SOQL Statement in Force.com Explorer?](#)
5. [How to know API names for Objects and Field?](#)

Basic Statements

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1. The Alias Notation.
2. The WHERE Clause.
3. IN Operator.
4. ORDER BY clause.
5. INCLUDES and EXCLUDES operators.

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1. Comparison Operators.
 - Equals.
 - Not Equals.
 - Less Than.
 - Less Than or Equal to.
 - Greater than.
 - Greater than or equal to.
 - Like.

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Advanced statements.

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1. SOQL Relationships.
 - Relationships between Standard Objects.
 - Relationships between Custom Objects.
 - Many-to-One Relationships (n:1) in SOQL.
 - Semi-Join and Anti Join.
 - Inner Join and Outer Join.

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1. Filtering Multi Select picklist values.
2. Escape Sequence.
3. Date Formats
4. Date literals.
5. GROUP BY ROLLUP Clause.
6. FOR REFERENCE Clause.
7. FOR VIEW Clause

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SOQL Functions

1. GROUP BY Class.
 1. COUNT ().
 2. COUNT (FIELD_NAME).
 3. COUNT_DISTINCT ().
 4. SUM ().
 5. MIN ()
 6. MAX ().
2. HAVING Class.

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Learn Apex : Introduction to SOQL.

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Learn Apex - SOSL