

1. What is SOQL?

SOQL is the Salesforce Object Query Language. It is used to query data from Salesforce objects.

2. Can you explain the syntax of a basic SOQL query?

A SOQL query is made up of a few different parts. The first is the SELECT clause, which is used to specify which fields you want to retrieve data from. The FROM clause is used to specify which object you want to retrieve data from. The WHERE clause is used to specify any conditions that the data must meet. The ORDER BY clause is used to specify how you want the data to be sorted.

Q. What is the use of order by clause in soql?

A. Use the optional ORDER BY in a SELECT statement of a SOQL query to control the order of the query results, such as alphabetically beginning with z.

If records are null, you can use ORDER BY to display the empty records first or last.

You can use ORDER BY in a SELECT statement to control the order of the query results. There is no guarantee of the order of results unless you use an ORDER BY clause

in a query.

Syntax: [ORDER BY fieldOrderByList {ASC|DESC} [NULLS {FIRST|LAST}}]

Q. What is OFFSET in soql?

A. Offset is used to skip the rows from the start of the query.

offset considerations:

1. the maximum limit of offset is 2000 rows. requesting an offset greater than 2000 will result in a number-out-side-valid-range error.

2. offset can't be used in subquery in the where clause.

Q. What is LIMIT in soql?

Limit clause is used to restrict the number of rows to be returned by the soql. Limit statement should be the last statement in soql query

syntax: [select id, name, industry from account limit 1]

Note:

if you want to use limit and offset together, we have to use limit followed by offset

Q. How many records can be fetched using SOQL?

A. we can retrieve up to 50000 records from SOQL in a single transaction.

If we want to Fetch more than 50000 records by SOQL, You should look at using Batch Apex to accomplish your goals.

You cannot retrieve more than 50,000 records your SOQL calls in a single context. However, with Batch Apex your logic will be processed in chunks of anywhere from 1 to 200 records in a batch.

Q.What is difference between where and having?

- The WHERE clause filters records in a SOQL query that has no aggregate function.
- The HAVING clause filters the results after data is aggregated by an aggregate function.

Q.What is difference between SOSL and SOQL?

SOQL (Salesforce Object Query Language)	SOSL (Salesforce Object Search Language)
Only one object can be searched at a time	Many objects can be searched at a time
Can query any type of field	Can query only on email, text or phone
Can be used in classes and triggers	Can be used in classes, but not triggers
DML Operation can be performed on query results	DML Operation cannot be performed on search results
Returns records	Returns fields

Q. Explain different operators used in SOQL ?

AND

Use AND to return records that meet two conditions. This query returns all records

Q. Explain parent to child and child to parent query?

Child to Parent Query

In a child-to-parent query, you query the child object and get fields from a parent object by using dot notation, like this:

Eg: SELECT Name, Account.Name
FROM Contact

Parent to Child Query

In a parent-to-child query, we use a subquery to get fields from the child object. A subquery is a SELECT statement enclosed in parentheses and nested within another query.

For every account, return the account name and

Main Query

Within a subquery, instead of the related object's field name, we use the child relationship name

SELECT Name, (SELECT Name FROM

Subquery

that have the first name Stella and the last name Pavlova.

SOQL & SOSL

What are the DML statements available in Apex?

1. Insert
2. Update
3. Delete
4. Undelete
5. Upsert (Combination of insert and update)
6. Merge (Combination of update and delete)

Governor Limits for DML statements ?

7. Number of DML statements per transaction: **150** (as a whole including insert, update, delete and undelete)
8. Number of rows processed per DML stmt: **10000**

Difference between insert/update and Database.insert/ Database.update?

insert/update	Database.insert/Database.update
Assume that you are inserting 100 records. If any one of the record fail due to error then entire operation will fail. None of the records will be saved into the database.	Assume that you are inserting 100 records. If any one of the record fail due to error then it will perform partial operation (valid records will be inserted/updated) if we use Database.insert(list,false)/ Database.update(list,false) .
with insert/update if we use try-catch then we can capture only one error which will cause to stop the operation.	with Database.insert/Database.update we can capture all the errors by saving result in Database.saveResult[] .

Q. What is a SOQL (SALESFORCE OBJECT QUERY LANGUAGE)?

Answer:

The Salesforce Object Query Language (SOQL) to construct simple but powerful query strings to select records from salesforce objects. Similar to the SELECT command in Structured Query Language (SQL), SOQL allows you to specify the source object (such as Account), a list of fields to retrieve, and conditions for selecting rows in the source object.

For example, the following SOQL query returns the value of the Id and Name field for all Account records if the value of Name is Sandy:
 SELECT Id, Name FROM Account WHERE Name = 'Sandy'

There is a Queue with name MyQueue. How to query it using SOQL query from the database?

Queues will store in **Group** object. To query for **MyQueue** from the database using SOQL, we should use the following syntax -

1	Group grp = [select Id, Name from Group where Name = 'MyQueue' and Type = 'Queue' Limit 1];
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Q. What is a SOSL (SALESFORCE OBJECT SEARCH LANGUAGE)?

Answer:

Salesforce Object Search Language (SOSL) to construct simple but powerful text searches for the Search() call. Unlike SOQL, which can only query one object at a time, SOSL allows you to efficiently search text, email, and phone fields for multiple objects at a time with a single query.

Q. When does we use SOQL and SOSL in SALESFORCE?

Answer:

SOQL:

1. You know in which objects or fields the data resides.
2. You want to retrieve data from a single object or from multiple objects that are related to one another.
3. You want to retrieve data from number, date, or checkbox fields.
4. You want to count the number of records that meet specified criteria.
5. You want to sort results as part of the query.

SOSL:

1. You don't know in which object or field the data resides and you want to find it in the most efficient way possible.
2. You want to retrieve multiple objects and fields efficiently, and the objects may or may not be related to one another.
3. You want to retrieve data for a particular division in an organization using the divisions feature, and you want to find it in the most efficient way possible.

BOTH SOQL OR SOSL:

1. Both SOSL and SOQL WHERE filters can specify text to look for. When a given search can use either language, SOSL is generally faster than SOQL if the search expression uses leading wildcards or a CONTAINS term.
2. In some cases, when multiple WHERE filters are being used in SOQL, indexes cannot be used even though the fields in the WHERE clause may be indexed. In this situation, decompose the single query into multiple queries each with one WHERE filter and then combine the results.
3. Executing a query with a null in a WHERE filter makes it impossible to use indexing. Such queries must scan the entire database to find appropriate records. Design the data model not to rely on nulls as valid field values.
4. If dynamic values are being used for the WHERE field and null values can be passed in, don't let the query run to determine there are no records; instead check for the nulls and avoid the query if necessary.

Question: SALESFORCE SOQL AND SOSL GOVERNOR LIMITS?



Answer:

Description	Limits
Total number of SOQL queries issued	100
Total number of SOQL queries issued for Batch Apex and future methods	200
Total number of records retrieved by SOQL queries	50,000
Total number of records retrieved by Database.getQueryLocator	10,000

Total number of SOSL queries issued	20
Total number of records retrieved by a single SOSL query	200

Question: What are the diff bt SOQL and SOSL in SALESFORCE?

Answer:

SOQL	SOSL
It's a Salesforce Object Query Language.	It's a Salesforce Object Search Language.
Search in Single Object.	Search in Entire Organization or Data base.
Returns Records.	Returns Fields.
It can use in Triggers.	It can use in Triggers. Changed

Question: What is the MAXIMUM BATCH SIZE LIMIT in QUERIES?

Answer:

The maximum batch size is 2,000 records.