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Introduction to SOQL: Navigating Salesforce Data Queries with Ease



Pranav Nagrecha 7 min read · Mar 26, 2024

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Salesforce Object Query Language (SOQL) is a critical tool for anyone delving into Salesforce's vast data landscape. It precisely fetches data from Salesforce, supporting data analysis, reporting, and application development. SOQL's role is pivotal in extracting data efficiently, yet its wide range of functionalities can appear complex at first glance.

Enter the SOQL Cheat Sheet. This handy guide simplifies SOQL by breaking down its key components from basic queries to advanced functions. It's designed to quickly get developers, administrators, and analysts up to speed with practical examples, especially focusing on the `Case` object. Whether you're handling simple data retrievals or exploring intricate data relationships, the cheat sheet is your go-to resource for quick, effective query building.



With this cheat sheet, we aim to equip you with the knowledge to use SOQL effectively, enhancing your Salesforce applications and data insights. Embrace the power of SOQL and start querying with

confidence.

Basic Syntax

Operation	Syntax Example	SOQL Example
SELECT	SELECT fieldList FROM Case	SELECT

WHERE Clause Operators

Operator	Description
=	Equals
!= or <>	Not equals
<	Less than
<=	Less than or equal to
>	Greater than
>=	Greater than or equal to
LIKE	Similar to
IN	Included in a list or subquery
NOT IN	Not included in a list or subquery
AND	Logical AND conjunction
OR	Logical OR conjunction
NOT	Logical NOT negation

INCLUDES	For multi-select picklist, includes
EXCLUDES	For multi-select picklist, excludes

Aggregate Functions

Function	Description
COUNT()	Total number of records
COUNT(fieldName)	Number of records with non-null
COUNT_DISTINCT	Number of unique non-null values
SUM(fieldName)	Sum of values of a numeric field
AVG(fieldName)	Average value of a numeric field
MAX(fieldName)	Maximum value of a field
MIN(fieldName)	Minimum value of a field
GROUP_BY	Group results by one or more fields
GROUP_BY ROLLUP	Subtotals aggregated across hierarchy
GROUP_BY CUBE	Subtotals for all combinations of fields

Date and Time

Date Literal	Description
TODAY	Records for the current day
YESTERDAY	Records for the previous day
LAST_WEEK	Records from the last week
THIS_WEEK	Records from the current week
NEXT_WEEK	Records for the next week
LAST_MONTH	Records from the last month
THIS_MONTH	Records from the current month
NEXT_MONTH	Records for the next month
LAST_N_DAYS:n	Records from the past N days

NEXT_N_DAYS:n	Records for the next N days
LAST_N_MONTHS:n	Records from the past N months
NEXT_N_MONTHS:n	Records for the next N months
LAST_N_WEEKS:n	Records from the past N weeks
NEXT_N_WEEKS:n	Records for the next N weeks
SAME_DAY_LAST_MONTH	Records from the same day last month
SAME_DAY_LAST_YEAR	Records from the same day last year
SAME_DAY_LAST_WEEK	Records from the same day last week

Relationship Queries

Type	Description
Parent- to -Child	List related child records (Subquery on related list)
Child- to -Parent	Get fields from a parent record (Dot notation for single step)
Grandparent	Query fields from a grandparent record (Dot notation through multiple levels)
Polymorphic	Query polymorphic relationships (Use TYPEOF in SOQL)

Special Functions

Function	Description
FORMAT()	Formats date , datetime , currency fields according to user locale
toLabel()	Converts picklist values to user's language

GROUP BY	Groups records that have the same va in specified fields
GROUP BY ROLLUP	Creates subtotals and grand totals
GROUP BY CUBE	Subtotals for all combinations of gr specified fields
DISTANCE()	Calculates distance between two geo
CALENDAR_MONTH()	Extracts the month from a date/da field
CONVERTCURRENCY()	Converts currency fields to org' currency based on conversion rates

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Written by Pranav Nagrecha

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Pranav Nagrecha he

What are your thoughts?



Sam Brown

Jul 30, 2024

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Thanks for sharing. Additionally, I suggest reading an article that offers comprehensive insights into Salesforce query tools.

<https://blog.skyvia.com/salesforce-query-tools/>



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