

Quick Reference: SQL for NoSQL Operations

SQL for Oracle NoSQL Database serves as a high-performance, declarative language designed to bridge the gap between traditional relational patterns and modern, high-volume document storage.

This high-performance language seamlessly integrates structured tables with flexible JSON data, allowing developers to utilize familiar SQL syntax.

The following table provides a quick reference to the core SQL operations available in Oracle NoSQL Database. Use the links below to access basic operation descriptions, terminal-ready examples, and SDK API references tailored for production use cases.

Table 1 SQL Quick Reference Table

Category	Operation	Basic Details	Syntax, Semantics, and Examples	SDK APIs/More Usecases
Namespace Management		Working with Namespace	Namespace Management	<ul style="list-style-type: none">Creating a namespaceNamespace Management
Region Management		Working with Multi-Region Setup	Region Management	<ul style="list-style-type: none">Creating a regionManage regions
Table Management	Create	Basic SQL Statements	<ul style="list-style-type: none">Create TableEnabling Before-images During Table CreationCreating Tables With an IDENTITY ColumnUsing the UUID data typeUsing the MR_COUNTER datatypeUsing JSON Collection Tables	Create table

Table 1 (Cont.) SQL Quick Reference Table

Category	Operation	Basic Details	Syntax, Semantics, and Examples	SDK APIs/More Usecases
	Alter		<ul style="list-style-type: none"> Alter Table Alter Identity Columns Add or Remove an IDENTITY column Add or Remove a UUID column Add or Remove an MR_COUNTER column 	Alter Table
	Drop		Drop Table	Drop Table
Table Row Management	Insert	Adding Table Rows using INSERT and UPSERT Statements	<ul style="list-style-type: none"> Insert Statement Insert Rows with Identity Column Inserting rows with a UUID column Inserting rows with an MR_COUNTER column Inserting rows into JSON collection tables 	Insert data
	Upsert	Adding Table Rows using INSERT and UPSERT Statements	Upsert statement	Upsert data
	Update	Modifying Table Rows using Update Statements	<ul style="list-style-type: none"> Update Statement Updating rows with a UUID column Updating JSON collection tables 	<ul style="list-style-type: none"> Update Data Modify JSON data
	Delete	Basic SQL Statements	Delete Statement	Delete Data
Indexes		Working With Indexes	Indexes	<ul style="list-style-type: none"> Create and View Indexes Drop Index Examples of queries using index

Table 1 (Cont.) SQL Quick Reference Table

Category	Operation	Basic Details	Syntax, Semantics, and Examples	SDK APIs/More Usecases
Query Management	Selecting	<ul style="list-style-type: none"> Selecting columns Renaming columns Computing new columns Identifying tables and their columns Working with JSON 	<ul style="list-style-type: none"> Select Clause From Clause 	<ul style="list-style-type: none"> Using Query API to fetch data Using Get API to fetch data
	Filtering	<ul style="list-style-type: none"> Filtering results Using Exists with JSON 	Where Clause	Using Query API to fetch data
	Grouping	Grouping Results	Group by Clause	<ul style="list-style-type: none"> Grouping results Examples using QueryRequest API
	Ordering	Ordering Results	Order by Clause	<ul style="list-style-type: none"> Ordering results Examples using QueryRequest API
	Limiting and Offsetting Results	Limiting and Offsetting Results	<ul style="list-style-type: none"> Limit Clause Offset Clause 	<ul style="list-style-type: none"> Limit and offset results Examples using QueryRequest API
	Using External Variables	Using External Variables	Variable Declarations	Using Internal variables and aliases
Complex Data	Arrays	<ul style="list-style-type: none"> Working With Arrays Seeking NULLS in Arrays 	<ul style="list-style-type: none"> Array and Map Constructors Unnest Arrays & Maps Array-Filter Step Expressions Array-Slice Step Expressions 	Working with Arrays
	Records	Working with Records	<ul style="list-style-type: none"> Field Step Expressions Map-Filter Step Expressions 	Working with nested data type
	Maps	Working With Maps	<ul style="list-style-type: none"> Array and Map Constructors Unnest Arrays & Maps Field Step Expressions Map-Filter Step Expressions 	Working with nested data type

Table 1 (Cont.) SQL Quick Reference Table

Category	Operation	Basic Details	Syntax, Semantics, and Examples	SDK APIs/More Usecases
Expressions		Working with Expressions	<ul style="list-style-type: none"> Comparison Expressions Concatenation Operator Arithmetic Expressions Primary Expressions 	<ul style="list-style-type: none"> Primary Expressions in SQL Operators in SQL
JSON Collection		Working with JSON Collection Tables	<ul style="list-style-type: none"> Using JSON Collection Tables Inserting rows into JSON collection tables Updating JSON collection tables 	SELECT queries on JSON collection tables
GeoJSON		Working With GeoJSON Data	GeoJSON Data Management	Managing GeoJSON data
Table Hierarchies	Left Outer Join	Left Outer Join		Using Left Outer joins with parent-child tables
	NESTED TABLES	NESTED TABLES		Using NESTED TABLES to join parent-child tables
	Inner Join	Inner Join		Using inner join with parent-child tables
Query Plan		Query Plan		Query execution plan
Query Optimization		Query Optimization		Tuning and Optimizing SQL queries
Built-in Functions		Built-in Functions		<ul style="list-style-type: none"> Timestamp functions Functions on Strings

Oracle NoSQL Database SQL Quick Reference Table, Release 26.1
G55348-01

Copyright © 2026, 2026, Oracle and/or its affiliates

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

This document is intended to provide quick introduction to SQL for and related concepts. SQL for is an easy-to-use, SQL-like language that supports Data Manipulation Language (DML) and Data Definition Language (DDL) statements. This document focuses on basic query features. For complete language details including syntax, semantics, query statements, examples, and advanced SQL operations, see .

Audience

This book is intended for new developers who want to work with data using a SQL-like query language. Knowledge of standard SQL is not required, but it can help you ramp up on SQL for more quickly.