



Week 7



SuiteQL and Scripted Functions



Week 6 Overview

You will learn:

1. SuiteQL
 - a. Usage and purpose
 - b. Executing SuiteQL in SuiteScript
 - c. Hands on exercise
2. Scripted Functions
 - a. Usage
 - b. Hands on exercise



Introduction to SuiteQL



What is SuiteQL?

- SuiteQL is NetSuite's implementation of SQL.
- Allows for complex data retrieval using SQL-like syntax

Using SuiteQL vs running searches in SuiteScript

SuiteQL

- SQL-Like Queries
- Performance
- Structured Data
- Cross-Record Joins
- Advanced Filtering

Saved Searches

- Ease of Use
- Simple Queries
- UI-based customization and flexibility for non-developers

Examples of Suitelete use cases

- Custom Data Entry Form
 - Enter data, press submit, create associated record(s) in NetSuite
- Generate / Print PDF Forms Using Custom Data
 - Add buttons to transactions that call a suitelet to render custom PDF forms with extra data not natively available
- Custom Approval Workflow Page
 - Create a custom page with business specific approval logic

Necessary Module

- N/query
 - Use multilevel joins to create queries using field data from multiple record types
 - Sort query results based on multiple columns
 - Load and delete queries using SuiteAnalytics Workbook interface

Viewing + Testing SuiteQL through NetSuite UI

- [Tim Dietrich SuiteQL Query Tool](#)
 - [Download Link](#)

The SuiteQL Query Tool

SuiteQL Query Tool

Query Editor

Tables Reference

Remote Library

Run Query

```
SELECT
  so.id AS SalesOrderID,
  so.tranid AS SalesOrderNumber,
  so.trandate AS OrderDate,
  cust.id AS CustomerID,
  cust.entityid AS CustomerName,
  item.id AS ItemID,
  item.itemid AS ItemName,
  soi.quantity AS QuantityOrdered,
  soi.rate AS ItemRate,
  soi.netamount AS LineNetAmount -- Corrected field
FROM
  transaction AS so
JOIN
  transactionline AS soi ON so.id = soi.transaction
JOIN
  entity AS cust ON soi.entity = cust.id
JOIN
  item AS item ON soi.item = item.id
WHERE
  so.type = 'SalesOrd'
  AND so.trandate BETWEEN TO_DATE('2024-01-01', 'YYYY-MM-DD') AND TO_DATE('2024-01-31', 'YYYY-MM-DD') -- Date filter
ORDER BY
  so.trandate DESC;
```

☐ Enable Pagination Options

Format Results As:

☒ Table ☐ DataTable ☐ CSV ☐ JSON ☐ PDF ☐ HTML

Display NULL Values As:

☒ Dimmed ☐ Blank ☐ null

Results

Retrieved 1 rows in 54ms.

salesorderid	salesordernumber	orderdate	customerid	customername	Itemid	Itemname	quantityordered	Itemrate	linenetamount
17076	SLS00000654	1/10/2024	1848	DevTest	501	ACC00002	-1	100	-100

Hands-on exercise

- Create a Suitelet that displays the results from a SuiteQL Query

Modules used:

- N/query
- N/log

Tips:

- Use the SuiteQL Query Tool to test and validate your SuiteQL queries before running the code!

Link To Sample

- [Github Link](#)

Additional Resources

1. [SuiteQL Tips & Tricks](#)
2. [Official N/query documentation](#)



Scripted Functions

This is just an introduction to libraries / re-using functions which we will look at during week 8.



What Are Scripted Functions?

- **Code Reusability:** Write functions once and use them across multiple scripts.
- **Improved Maintainability:** Update logic in one place rather than modifying multiple scripts.
- **Better Organization:** Keep business logic separate from script execution.
- **Performance Optimization:** Reduce redundant code execution.

Examples of using Scripted Functions

- You can add helper functions to the file cabinet in NetSuite and reference those functions in other scripts.
- This is useful when you have code you can see yourself reusing a lot in the future.
- Examples: Logging errors in a specific format, handling rounding, etc..

Using Scripted Functions

- Example of creating Scripted Functions to use as a library in NetSuite
 - [Helper Functions Library](#)
- Using the Scripted Function library in a script!
 - [Using the Helper Functions Library](#)