Supplemental Instructions for

OAC AI Agents

Prompt Engineering Resource Hub

Quick Start Guide | Deep Dive Studio | Hands-On Lab

Oracle Analytics Cloud | CEAL Team

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1. Overview

This document provides a comprehensive guide to the Supplemental Instructions Resource Hub for Oracle Analytics Cloud (OAC) AI Agents. The hub is a collection of three web-based tools designed to help agent authors write effective Supplemental Instructions — the key component that transforms a generic data assistant into a domain-specific expert.

Your semantic model tells the agent what your data looks like. **Supplemental Instructions tell the Agent how your business thinks.**

The resource hub is hosted on GitHub Pages and accessible to anyone with the URL. It requires no installation, login, or server setup — everything runs in the browser.

1.1 What Are OAC AI Agents?

Oracle Analytics AI Agents empower business authors to define custom prompt instructions and incorporate organizational knowledge into AI-assistant interactions. They combine four components into governed, domain-specific intelligence:

Component	Purpose	Key Details
Dataset	The indexed business data the agent queries	One dataset per agent. Must be indexed for AI Assistant use.
Supplemental Instructions	Business rules, KPI formulas, interpretation logic	Up to 6,000 characters. Passed directly to the AI without preprocessing.
Knowledge Documents (RAG)	Enterprise policies, reference docs, competitive info	PDF/TXT only. Up to 10 docs, 5MB each. Vectorized and retrieved per query.
Welcome Message	Introductory text users see when engaging the agent	Sets expectations, provides sample questions, describes agent scope.

When a user submits a question, the agent applies Supplemental Instructions to shape reasoning, retrieves relevant Knowledge Document excerpts via RAG, and processes the enhanced query through the Oracle Analytics AI Assistant.

1.2 Why Supplemental Instructions Matter

Without Supplemental Instructions, the agent only knows what is in your semantic model — columns, data types, and synonyms. It does not know that your fiscal year runs June to May, that 'Strategic accounts' means Enterprise plus Mid-Market, or how to compute custom KPIs built in your workbooks.

Supplemental Instructions bridge that gap. They define the business rules, custom calculations, and reporting preferences that turn the agent from a generic assistant into a domain expert your team can trust.

2. The Resource Hub

The resource hub consists of three interconnected web pages, each serving a different audience and purpose. All three pages share consistent styling, dark mode default, Oracle Sans font, and cross-navigation.

2.1 Quick Start Guide

URL: https://ravi-bhuma.github.io/oac-prompt-studio/guides/quick-start.html

The Quick Start Guide is the primary entry point for agent authors who want to get started quickly. It provides four paths depending on your experience level and time available:

Path	Description	Best For
Start from Template	11 industry templates (Sales, Healthcare, Finance, HR, etc.) with copy-ready RTCCOE instructions	Authors who want the fastest path — pick a template, replace [brackets]
Build Step-by-Step	Interactive builder: answer 6 questions, get auto-generated SI	Authors who want guided construction
Use Case Reference	16 real-world OAC patterns (Grouping, Fiscal Calendar, Top N, Geo Distance, etc.)	Authors who need specific patterns to solve a known problem
Learn the Basics	8 prompt engineering techniques, each with OAC-specific examples	Authors new to prompt engineering who want to understand why instructions work

The guide also covers foundational concepts: What are Supplemental Instructions, the four-component agent architecture, Dataset preparation (indexing, column subsetting, agent filters), Knowledge Document specs (PDF/TXT, 10 docs, 5MB each), and the 6,000 character limit.

2.2 Deep Dive Studio

URL: https://ravi-bhuma.github.io/oac-prompt-studio/guides/prompt-engineering-studio.html

The Deep Dive Studio is a comprehensive prompt engineering reference with 40 techniques across simple, intermediate, and advanced tiers. It includes:

- 40 prompt engineering techniques organized by difficulty
- 6 proven frameworks (RTCCOE, CO-STAR, RISEN, CREATE, TAG, APE)
- 16 real-world use cases with full SI examples
- 11 industry starter kits with complete RTCCOE templates
- Interactive SI Builder with live preview and copy
- Framework comparison tool and decision matrix

2.3 Hands-On Lab

URL: https://ravi-bhuma.github.io/oac-prompt-studio/guides/hands-on-exercise.html

The Hands-On Lab provides 12 guided exercises using 4 real datasets, directly aligned with the OAC Agents Technical Guidance V25-11-1. Each exercise includes the exact copy-paste instruction, the specific dataset to use, and sample utterances to test.

Track	Exercises	Dataset(s)	Duration
Beginner	1-6: Grouping, Hierarchy, Default Metric, Filter, Charts, Shortcuts	SOL.xlsx	~30 min
Intermediate	7-9: KPI Formulas, Aggregation Rules, Top N/Bottom N	Retail_Sales.xlsx, Sample_Superstore_-_Rate.xlsx, SOL.xlsx	~30 min
Advanced	10-12: Fiscal Calendar, Geo Distance, Shop Locations via RAG	SOL.xlsx, GP_Sales_Locations.csv	~45 min

All 4 dataset files are available for download directly from the Hands-On Lab page.

2.4 Knowledge Quiz

URL: https://ravi-bhuma.github.io/oac-prompt-studio/guides/quiz.html

The Knowledge Quiz is an interactive self-assessment tool with 28 questions across 7 categories. It tests understanding of agent architecture, Supplemental Instructions, RTCCOE framework, datasets, Knowledge Documents, use cases, and fiscal calendars.

Mode	Questions	Duration
Quick	7 randomized questions	~4 minutes
Standard	14 randomized questions	~10 minutes
Full Exam	All 28 questions	~20 minutes

Features include: randomized question order, skip-any-question option, timer, immediate feedback with explanations, circular score visualization, and a full answer review on the results page. Study references to YouTube and Oracle Docs are provided on both the landing and results pages.

3. How to Access the Resource Hub

3.1 Landing Page

URL: https://ravi-bhuma.github.io/oac-prompt-studio/

The landing page provides a visual overview of the four agent components (Dataset, Supplemental Instructions, Knowledge Documents, Welcome Message) and offers two-card navigation to the Quick Start Guide and Deep Dive Studio. Quick links at the bottom navigate directly into specific sections of the Quick Start Guide.

3.2 Direct Page URLs

Page	URL
Landing Page	https://ravi-bhuma.github.io/oac-prompt-studio/
Quick Start Guide	https://ravi-bhuma.github.io/oac-prompt-studio/guides/quick-start.html
Deep Dive Studio	https://ravi-bhuma.github.io/oac-prompt-studio/guides/prompt-engineering-studio.html
Hands-On Lab	https://ravi-bhuma.github.io/oac-prompt-studio/guides/hands-on-exercise.html

3.3 Requirements

The resource hub is a static website hosted on GitHub Pages. No server, database, or authentication is required. Any modern web browser (Chrome, Edge, Firefox, Safari) will work. All pages default to dark mode and can be toggled to light mode.

To use the Hands-On Lab exercises, you will need access to an Oracle Analytics Cloud instance with Generative AI enabled and the 'Create and Edit AI Agents' permission.

4. The R.T.C.C.O.E Framework

The resource hub recommends the RTCCOE framework as the standard structure for writing Supplemental Instructions. RTCCOE stands for Role, Task, Context, Constraints, Output, and Examples. This framework maps directly to the === delimiter structure used in all templates:

Section	Delimiter	Purpose	Example
Role	=== ROLE ===	Who the agent is, what domain, which dataset	You are a Senior Sales Analytics Expert for North America.
Task	=== TASK ===	What the agent does when a question arrives	Answer questions with accurate charts, tables, and insights.
Context	=== CONTEXT ===	Business rules, KPIs, fiscal calendar, hierarchies	FY = Jun 1 - May 31. ATV = Sum(Revenue) / Count Distinct(Order_ID).
Constraints	=== CONSTRAINTS ===	Hard rules the agent must follow	Default metric: Revenue. Default ranking: Top 5. Never fabricate data.
Output	=== OUTPUT ===	Chart types, formatting, labels	Categories -> Table. Time -> Line. Geographic -> Map.
Examples	=== EXAMPLES ===	2-3 query-to-response patterns	Q: 'Revenue this quarter' -> Filter FQ Offset=0, Sum(Sales), Table

All 11 industry templates in the Quick Start Guide follow this exact structure. The Interactive Builder in the Quick Start Guide generates RTCCOE-formatted instructions automatically based on your answers to 6 questions.

5. Supported Use Cases

The resource hub covers 16 real-world Supplemental Instruction patterns, each solving a specific business problem. These use cases are referenced across all three pages:

#	Use Case	What It Solves
1	Attribute Grouping	Map raw values to business categories (e.g., Order Priority -> Regular/Important)
2	Hierarchies & Drill-Down	Product Category -> Sub-Category -> Product Name navigation
3	Default Metric	When no metric specified, default to Revenue/Sales
4	Persistent Default Filter	Always apply City='Toronto' unless explicitly removed
5	Default Chart Types	Categories -> Table, Time -> Area Chart, Geographic -> Map
6	Report Shortcuts	'Monthly Report' -> pre-defined table with specific metrics and filters
7	Aggregation Rules	Revenue=Sum, Shipping Rate=Avg, Order Count=Count Distinct
8	Custom Formulas/KPIs	ATV = Sum(Revenue)/Sum(Transactions), Sales per Sq.Ft
9	Bucket Segmentation	Sales < 100 = 'Low', 100-500 = 'Medium', etc.
10	Multi-Step Analysis	Sequential: identify -> calculate -> flag -> sort -> present
11	Fiscal Calendar	FY Jun-May with exact quarter mappings and spacing rules
12	Period-over-Period	QoQ%, YoY% using offset-based time filtering
13	Top N / Bottom N	Default count 5, keyword mapping (best/worst/leading/slowest)
14	Drill-Down with ReAct	REASON -> ACT -> OBSERVE -> drill deeper -> PRESENT
15	Geo Distance	'Within 50 miles of Nashville' using lat/long calculations
16	Geo Visualization	Map-based output for location-aware queries

6. Hands-On Lab Exercise Summary

The Hands-On Lab maps the Technical Guidance appendix examples to guided exercises with specific datasets. Here is the complete mapping:

Ex#	Exercise	Tech Guidance Section	Dataset
1	Grouping of Attributes (Regular/Important Orders)	Section 7.1	SOL.xlsx
2	Hierarchies and Drill-Downs (Product hierarchy)	Section 7.2	SOL.xlsx
3	Setting Default Metric (Sales as fallback)	Section 7.3	SOL.xlsx
4	Default Filter (City = Toronto)	Section 7.4	SOL.xlsx
5	Default Chart Types (Table for categories, Area for time)	Section 7.5	SOL.xlsx
6	Report Shortcuts (Monthly Report)	Section 7.6	SOL.xlsx
7	KPI Formulas (ATV, Sales per Sq.Ft)	Section 7.7	Retail_Sales.xlsx
8	Aggregation Rules (Sum vs Avg)	Section 7.12	Sample_Superstore_-_Rate.xlsx
9	Top N and Bottom N	Section 7.8	SOL.xlsx
10	Fiscal Calendar (Jun-May FY)	Section 7.9	SOL.xlsx
11	Geographic Distance Calculations	Section 7.10	GP_Sales_Locations.csv
12	Shop Locations via Knowledge Documents	Section 7.11	GP_Sales_Locations.csv

7. References and Resources

7.1 Video

Resource	URL
OAC AI Agents - Getting Started (YouTube)	https://www.youtube.com/watch?v=4iv9YsXw5Po&t=65s

7.2 Oracle Documentation

Resource	URL
Oracle Analytics AI Agents Overview	https://docs.oracle.com/en/cloud/paas/analytics-cloud/acubi/oracle-analytics-ai-agents.html
Create an Oracle Analytics AI Agent	https://docs.oracle.com/en/cloud/paas/analytics-cloud/acubi/create-oracle-analytics-ai-agent.html

7.3 Resource Hub Pages

Page	URL
Landing Page	https://ravi-bhuma.github.io/oac-prompt-studio/
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Hands-On Lab	https://ravi-bhuma.github.io/oac-prompt-studio/guides/hands-on-exercise.html
Knowledge Quiz	https://ravi-bhuma.github.io/oac-prompt-studio/guides/quiz.html

7.4 Datasets for Hands-On Lab

All datasets are downloadable from the Hands-On Lab page or from the GitHub repository:

Dataset	Description	Used In
SOL.xlsx	Sales Orders with Order Priority, Product hierarchy, City, Ship Mode	Exercises 1-6, 9-10
Retail_Sales.xlsx	Retail store data with transactions, selling area sqft, categories	Exercise 7 (KPI Formulas)
Sample_Superstore_-_Rate.xlsx	Superstore with Shipping Rate column for aggregation rules	Exercise 8 (Aggregation)
GP_Sales_Locations.csv	Sales with LATITUDE, LONGITUDE for geo distance calculations	Exercises 11-12 (Geo)