# Al Agent Studio demo. New features in Release 25D.

## Agent Team of type "Supervisor".

## How to guery Payables and/or Receivables invoices in SaaS.

#### Introduction/Goal.

Release 25D is full of new features.

Agent Teams are now of 3 types:

- Supervisor. The object of this demo.
- Sequential.
- Workflow. NEW! for next demos.

We will prepare a basic demo to show the steps needed for an Agent of type Supervisor.

We will show also the new 25D feature to export our "Agent Team" in JSON format, which could be used to install in other instances.

At the time of this writing in 25D export option is available but import option is not.

#### Preparatory steps.

We will build 2 Business Objects tools.

We assume you have basic knowledge to build these tools. We will summarize steps in this document.

Recommended: you could review previous chapters where we detail how to accomplish these tasks.

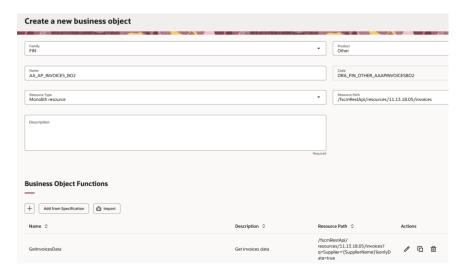
#### **Steps for Business Objects.**

To build the BO for payables invoices, this is the information from out export file, you could use it to build your artifacts.

```
"ToolCode": "AAAPINVOICESTOOLBO",
"Type": "BUS OBJECT",
"Name": "AA_AP_INVOICES_TOOL_BO",
"Description": "Get payables invoices data",
"Family": "FIN",
"Product": "OTHER",
"SeededFlag": false,
"HiddenFlag": false,
"ModuleId": null,
"Namespace": "FIN.OTHER",
"Version": 1,
"UserInputRequiredFlag": false,
"Specification": {
  "jsonSchemaName": "Tool.spec",
  "jsonSchemaVersion": "1"
"UserInputMsg": null,
```

```
"RestTool": {
                               "ObjectCode": "ORA_FIN_OTHER_AAAPINVOICESBO2",
                               "Family": "FIN",
                               "Product": "OTHER",
                               "ObjectSource": "ADF_BC",
                               "Category": null,
                               "RestResourcePath": "/fscmRestApi/resources/11.13.18.05/invoices",
                               "RestResourceIdentifier": "identifier not known",
                               "RestSupportedOperations": "{\"allowedOperations\": {\"GET\": true, \"POST\": true, \"POST\":
\"PATCH\": true, \"DELETE\": true}}",
                               "ParentSupptObjectId": null,
                               "MandatoryFlag": false,
                               "SeededFlag": false,
                               "ObjectProperties": {
                                    "jsonSchemaName": "SupportedBusinessObject.objectProperties",
                                     "jsonSchemaVersion": 1,
                                    "tools": [
                                              "bodyTemplate": "",
                                              "description": "Get data from payables invoices",
                                              "id": 20,
                                              "isNew": true,
                                              "name": "getPayablesInvoices",
"operationType": "GET",
                                               "parameterDefinitions": [
                                                        "dataType": "string",
                                                        "description": "Supplier Name parameter",
                                                        "id": 17,
                                                        "isToken": true,
"name": "SupplierName"
                                                    }
                                               1,
                                               "resourcePath":
"/fscmRestApi/resources/11.13.18.05/invoices?q=Supplier='{SupplierName}'",
                                               "resourceType": "ADF BC FIXED QUERY",
                                               "sampleQueries": [
                                                         "query": {
                                                              "mySupplierName": "demo"
                                                         "description": "Supplier name parameter",
                                                         "id": 15,
                                                         "stringValue": "{\"mySupplierName\":\"demo\"}"
                                               "type": "BUS_OBJECT"
                                        }
                                   ]
                               "ObjectDisplayName": "AA AP INVOICES BO2",
                               "Name": "AA_AP_INVOICES_BO2",
                               "Description": "Get data from payables invoices"
                    }
               ],
```

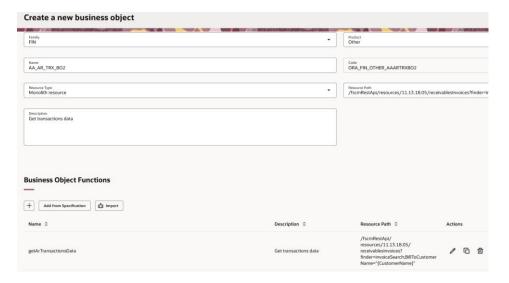
This is the first Business Object.



To build the BO for receivables invoices, this is the information from out export file, you could use it to build your artifacts.

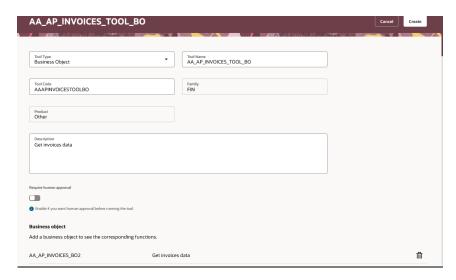
```
"ToolCode": "AAARTRXTOOLBO",
          "Type": "BUS_OBJECT",
          "Name": "AA_AR_TRX_TOOL_BO",
          "Description": "Get receivables transaction data",
          "Family": "FIN",
          "Product": "OTHER",
          "SeededFlag": false,
          "HiddenFlag": false,
          "ModuleId": null,
          "Namespace": "FIN.OTHER",
          "Version": 1,
          "UserInputRequiredFlag": false,
          "Specification": {
            "jsonSchemaName": "Tool.spec",
            "jsonSchemaVersion": "1"
          "UserInputMsg": null,
          "RestTool": {
            "ObjectCode": "ORA_FIN_OTHER_AAARTRXBO2",
            "Family": "FIN",
            "Product": "OTHER",
            "ObjectSource": "ADF BC",
            "Category": null,
            "RestResourcePath": "/fscmRestApi/resources/11.13.18.05/receivablesInvoices",
            "RestResourceIdentifier": "identifier not known",
            "RestSupportedOperations": "{\"allowedOperations\": {\"GET\": true, \"POST\": true,
\"PATCH\": true, \"DELETE\": true}}",
            "ParentSupptObjectId": null,
            "MandatoryFlag": false,
            "SeededFlag": false,
            "ObjectProperties": {
              "jsonSchemaName": "SupportedBusinessObject.objectProperties",
              "jsonSchemaVersion": 1,
              "tools": [
                  "bodyTemplate": "",
                  "description": "Get information for transactions data",
                  "id": 9,
                  "isNew": true,
                  "name": "getTrxData",
                  "operationType": "GET",
                  "parameterDefinitions": [
                      "dataType": "string",
                      "description": "Customer Name parameter",
```

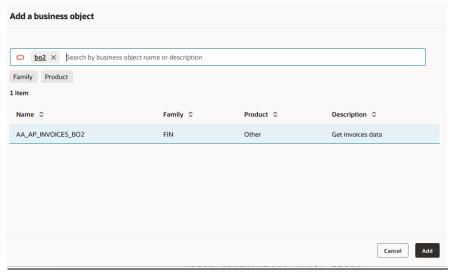
## This is the second Business Object.



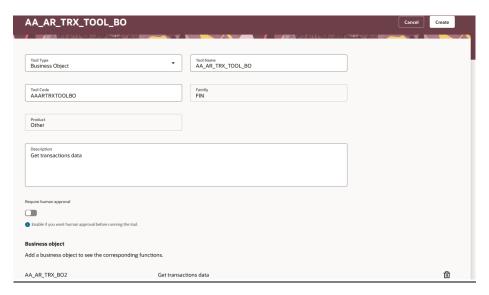
## Steps to create the Tools.

For receivables invoices.



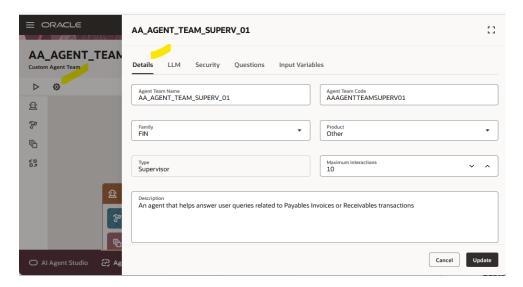


For receivables invoices.



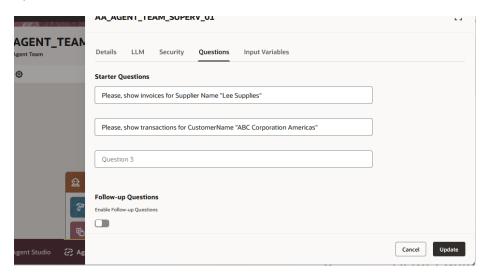
# **Steps for Agent Teams.**

After building the 2 Business Object tools in previous steps, we will create an Agent Team of type "Supervisor".



Description: An agent that helps answer user queries related to Payables Invoices or Receivables transactions

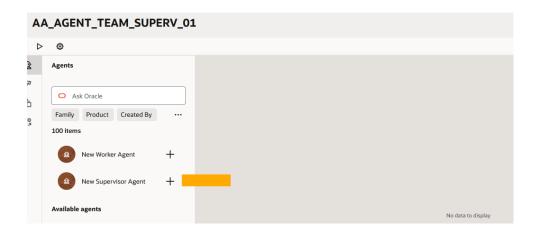
#### Questions.



#### Questions.

- Please, show invoices for Supplier Name "Lee Supplies"
- Please, show transactions for CustomerName "ABC Corporation Americas"

Now add the Supervisor Agent.



#### Agent Supervisor (the parent node).

#### - Description.

This agent serves as a planning and coordination layer that oversees and delegates tasks.

#### - Prompt.

You are a planning agent.

Your job is to break down complex user requests into smaller, manageable subtasks and delegate each task to exactly one of the following agents:

If the user ask for Supplier or Supplier Name use AA\_AGENT\_AP\_INV agent If the user ask for Customer or Customer Name use AA\_AGENT\_AR\_INV agent

- ## Important Mapping
- 1. transaction and invoice means same

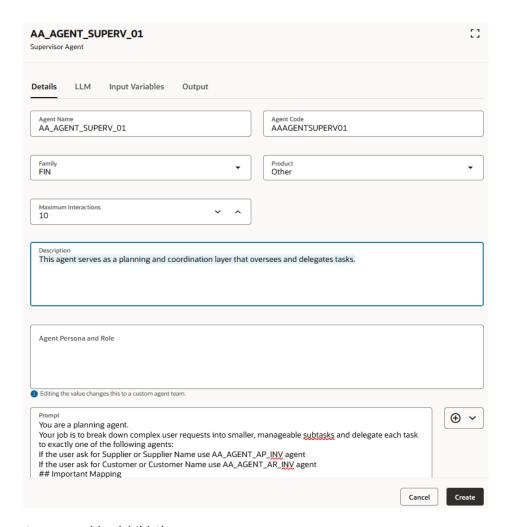
Do not respond to tasks which cannot be done by the agents listed below.

In this situation provide a message to the end user explaining what kind of tasks can be performed based on the known agents.

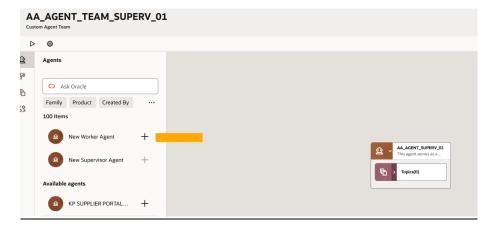
Your job is only to plan and delegate tasks to the known agents -  ${\tt Do}$  not invoke the task on your own.

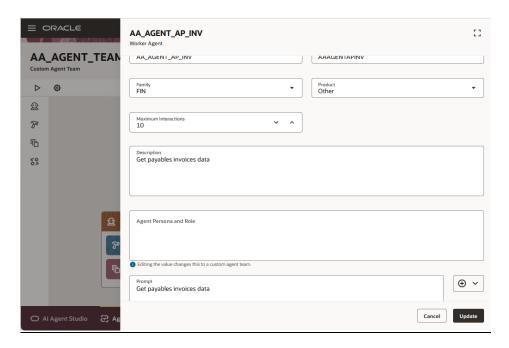
\$param.system\_context.list\_of\_available\_agents

Please say TERMINATE when the whole job is completed.



# Agent payables (child 1).

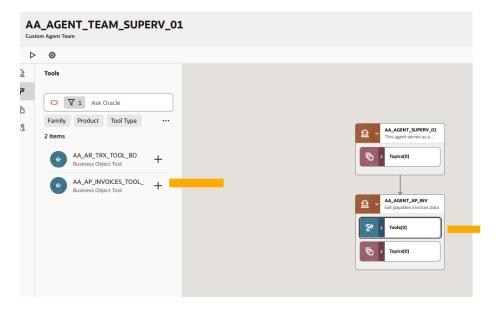




- Description. Get payables invoices data
- Prompt. Get payables invoices data

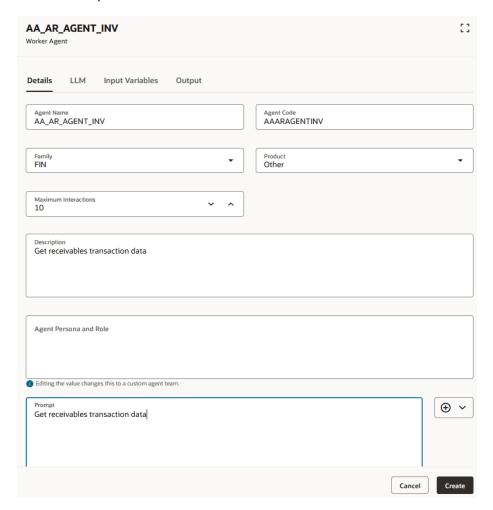
Now add the tool, as shown, select first the Tools node on the right.

Then filter on the left the tool, and click (+) Icon.



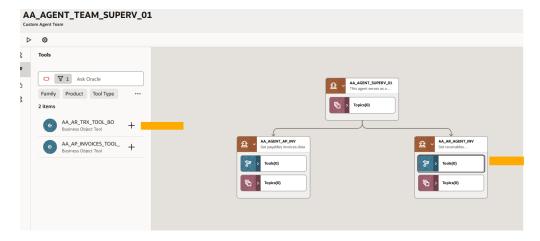
# Agent receivables (child 2).

- Description. Get receivables transaction data
- Prompt. Get receivables transaction data

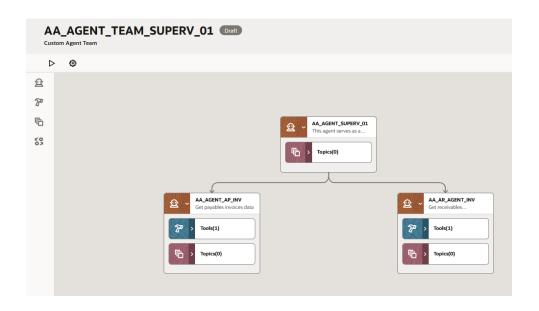


Now add the tool, as shown, select first the Tools node on the right.

Then filter on the left the tool, and click (+) Icon.

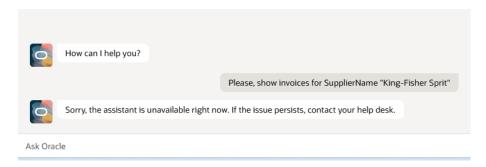


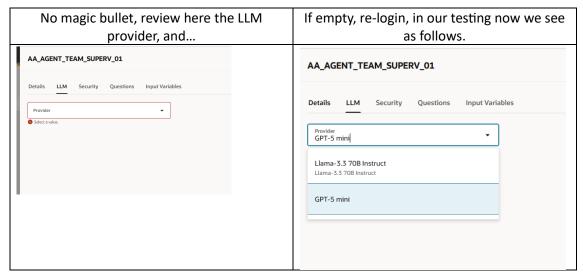
We are ready to test:



#### Tests.

If you get this answer when testing.





If after re-login the LLM Provider is empty, open SR.

The user can ask for payables invoices or receivables transactions; the supervisor Agent will decide which tool will run, using the "Prompt" guidelines.



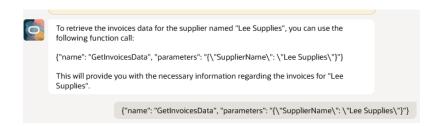
Whatever the reason, initially we had to limit records to 10 and fields to get results. No limit no results, keep reading.

 $/fscmRestApi/resources/11.13.18.05/invoices?q=Supplier='\{SupplierName\}'\&onlyData=true\&fields=InvoiceId,InvoiceNumber,InvoiceCurrency,PaymentCurrency,InvoiceAmount,InvoiceDate,BusinessUnit,Supplier,SupplierNumber&limit=10$ 



With above setup we got results.

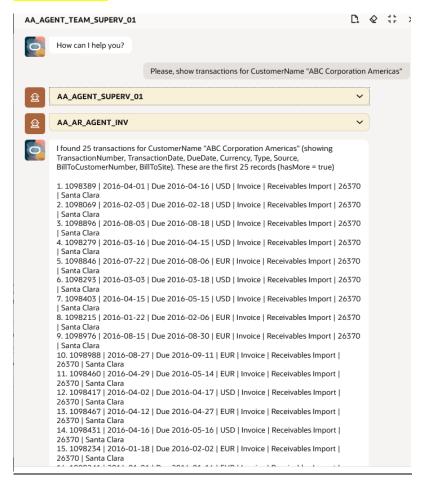
After changing back to Llama-3.3 we get:



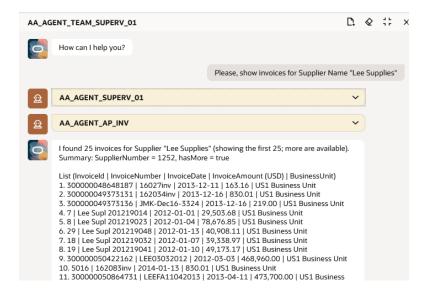
So, we go back to LLM=GPT-5-mini.

Note that for receivables, we have limited the fields to retrieve.

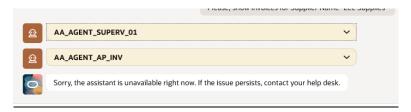
/fscmRestApi/resources/11.13.18.05/receivablesInvoices?finder=invoiceSearch;BillToCustomerName="{CustomerName}"&onlyDat a=true&fields=DueDate,InvoiceCurrencyCode,TransactionNumber,TransactionDate,TransactionType,TransactionSource,BillToCustomerNumber,BillToSite



Now for learning purposes we have removed the limit=10 in Payables invoices and it works. We do not know the reason in first test this did not work.



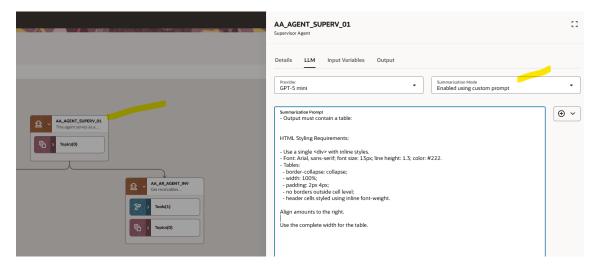
A Last test going back to LLM supplier = "Llama-3.3 70B Instruct"



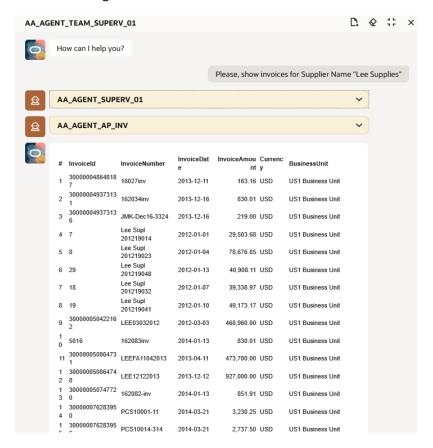
And again, it does not work in our instance. Feel free to test in your instances.

In our instance the score is → GPT-mini 1 | Llama-3.3 70B Instruct - 0

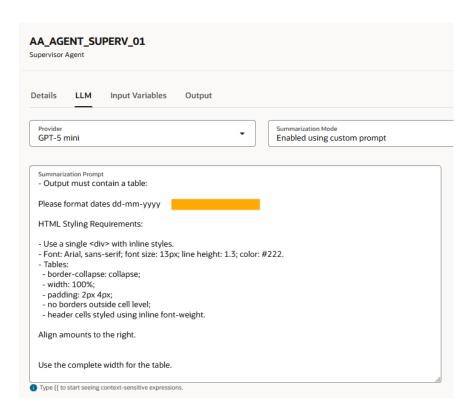
# After this change.



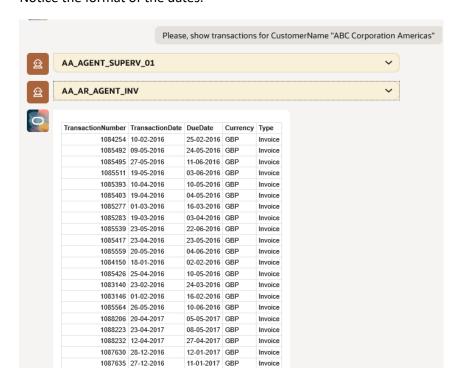
#### After this change.



After this small change we re-test for receivables.

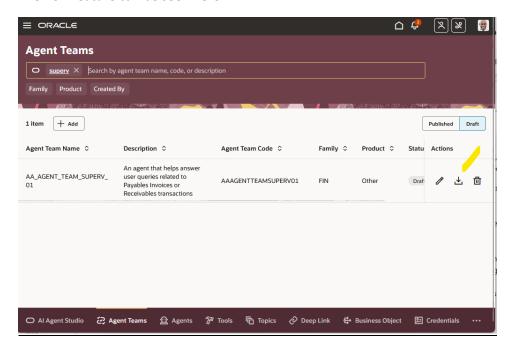


#### Notice the format of the dates.



## **How to Export.**

The new feature can be seen here.



And the export files can be seen below in the files provided table.

# Conclusion.

SS

# Technical

Code example	Comments
AAAGENTTEAMSUPERV01_v1.json	To be used as reference.
AAAGENTTEAMSUPERV01_v2.json	We have used previous as reference to setup this one, which we have also exported.