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| Test Script  SAP S/4HANA - 18-09-20 | public |
| Analytics for Production Unit - Plan/Actual Production Cost (2QW) |

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# Purpose

This scope item provides the foundation to produce prebuilt finance analytics content using Core Data Services (CDS). Views help the customer understand business trends. A set of Key Performance Indicators allow for robust analytics on SAP S/4HANA data. It can incorporate Actual and Plan production costs associated with production orders and usage for Strategic Analytics.

Custom Analytical Queries and Query Browser apps leverage the Core Data Services (CDS) Views, which are annotated as usage view.

Analytical capabilities help to manage manufacturing operations and plan the financial cost allocation across production units and work centers. You can optimize Plan-to-Produce across production units and optimize financial spend and manufacturing operations.

The production manager can compare between production cost of planning and execution, which covers all effort types plan costs, actual costs, target costs, control costs, and input/output variances.

This document provides a detailed procedure for testing this scope item after solution activation, reflecting the predefined scope of the solution. Each process step, report, or item is covered in its own section, providing the system interactions (test steps) in a table view. Steps that are not in scope of the process but are needed for testing are marked accordingly. Project-specific steps must be added.

# Prerequisites

This section summarizes all the prerequisites for conducting the test in terms of systems, users, master data, organizational data, other test data and business conditions.

## System Access

|  |  |
| --- | --- |
| System | Details |
| System | Accessible via SAP Fiori launchpad. Your system administrator provides you with the URL to access the various apps assigned to your role. |

## Roles

Assign the following business roles to your individual test users. Alternatively, if available, you can create business roles using the following spaces with pages and predefined apps for the SAP Fiori launchpad and assign the business roles to your individual test users.

Note These roles or spaces are examples provided by SAP. You can use them as templates to create your own roles or spaces.

For more information about business roles, refer to Assigning business roles to a user in the [Administration Guide to Implementation of SAP S/4HANA with SAP Best Practices](https://help.sap.com/viewer/S4HANA2020_AdminGuide) .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name (Role) | ID (Role) | Description (Space) | ID (Space) | Log On |
| Analytics Specialist | SAP\_BR\_ANALYTICS\_SPECIALIST |  |  |  |
| Cost Accountant - Production | SAP\_BR\_PRODN\_ACCOUNTANT | Product Costing | SAP\_BR\_PRODN\_ACCOUNTANT |  |
| Inventory Analyst | SAP\_BR\_INVENTORY\_ANALYST | Inventory Analysis | SAP\_BR\_INVENTORY\_ANALYST |  |
| Plant Manager | SAP\_BR\_PLANT\_MANAGER | Plant Management | SAP\_BR\_PLANT\_MANAGER |  |
| Shipping Specialist | SAP\_BR\_SHIPPING\_SPECIALIST | Shipping | SAP\_BR\_SHIPPING\_SPECIALIST |  |

## Business Conditions

Follow the procedures described in the following scope items for creating the corresponding business data if needed:

|  |  |
| --- | --- |
| Scope Item | Business Condition |
| BEI - Period-End Closing - Plant | Follow the scope item to create the corresponding business data. |
| BF7 - Period-End Closing - Maintenance Orders | Follow the scope item to create the corresponding business data. |

# Overview Table

This scope item consists of several process steps provided in the following table.

If your system administrator has enabled spaces and pages on the SAP Fiori launchpad, the homepage will only contain the essential apps for performing the typical tasks of a business role.

You can find all other apps not included on the homepage using the search bar.

If you want to personalize the homepage and include the hidden apps, navigate to your user profile and choose Settings > App Finder .

|  |  |  |  |
| --- | --- | --- | --- |
| Process Step | Business Role | Transaction/App | Expected Results |
| Display CDS Queries of Manufacturing Scenario | SAP\_BR\_ANALYTICS\_SPECIALIST | View Browser - Browse Views (F2170) |  |
| Show Content of CDS Queries for Manufacturing Scenario | SAP\_BR\_ANALYTICS\_SPECIALIST  SAP\_BR\_PRODN\_ACCOUNTANT  SAP\_BR\_INVENTORY\_ANALYST  SAP\_BR\_PLANT\_MANAGER  SAP\_BR\_SHIPPING\_SPECIALIST | View Browser - Browse Views (F2170) |  |

# Test Procedures

This section describes test procedures for each process step that belongs to this scope item.

## Pre-built CDS Queries for Manufacturing Scenario

Procedures

There are several prebuilt CDS queries for the manufacturing scenario. The following test procedures serve as an example.

|  |  |  |
| --- | --- | --- |
| CDS Queries | Business Area | Business Role |
| C\_PRODUCTCOSTBYORDERQUERY | Evaluating/analyzing the cost incurred during manufacturing by production order for the purpose of monitoring and reducing the manufacturing cost. | SAP\_BR\_PRODN\_ACCOUNTANT |
| C\_WORKCENTERPRODCOSTQUERY | Evaluating/analyzing the cost incurred during manufacturing by work center for the purpose of reducing the manufacturing cost of a certain work center. | SAP\_BR\_PRODN\_ACCOUNTANT |
| C\_STOCKQTYCURRENTVALUE\_2 | Evaluating/analyzing the current stock value and quantity by plants and stock types for the purpose of reducing the inventory cost of different product. | SAP\_BR\_INVENTORY\_ANALYST |
| C\_MFGORDERITEMSCRAPAMTQRY | Evaluating/analyzing the scrap, rework and yield amount by plants for the purpose of reducing the scrap cost during manufacturing. | SAP\_BR\_PLANT\_MANAGER |
| C\_SHPDASPLNDDELIVITEMSQRY | Evaluating/analyzing the outbound delivery performance by plants and shipping points for the purpose of reducing the delivery overdue days. | SAP\_BR\_SHIPPING\_SPECIALIST |

The functions/process steps listed in previous chapter are all covered in the View Browser (F2170) app. For more information about using this app, please refer to the View Browser document on the SAP Help Portal:

<https://help.sap.com/viewer/p/SAP_S4HANA_ON-PREMISE/> > English (under Product Assistance) > Cross Components > Analytics > View Browser .

You can find the relevant information for displaying, previewing data, and creating your own applications.

Typographic Conventions

|  |  |
| --- | --- |
| Type Style | Description |
| Example | Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Textual cross-references to other documents. |
| Example | Emphasized words or expressions. |
| EXAMPLE | Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE. |
| Example | Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools. |
| Example | Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation. |
| <Example> | Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system. |
| EXAMPLE | Keys on the keyboard, for example, F2 or ENTER. |

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