SAP ALV Report to Fiori List RAP Transformation

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AGENDA

- Understand the existing report
- Naming Convention of RAP
- CDS Table Function : Why and How
- Virtual element in CDS
- Table Data Updates through Action Buttons
- Navigation to other Application
- Disable Object page
- Horizontal Scroll Bar: UI Enhancements
- Material Quantity Conversion: Practical Scenarios

UNDERSTANDING THE EXISTING REPORT

- Overview:
  - What is an ALV/SALV Report?
  - Key Features and Limitations in the Traditional Format.
- Objective:
  - Why migrate to Fiori List Display?
  - Benefits of using RAP (ABAP RESTful Application Programming).

SAP Naming Conventions: CDS and RAP

Best Practices for Consistent Naming in SAP Development

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AGENDA

- SAP CDS Naming Conventions
- SAP RAP Naming Conventions
- Launchpad Configuration Objects
- Examples and Guidelines

SAP CDS NAMING FORMAT

- General Format:
  - Z/Y[Type][Module][Description]_[SUFFIX]
  - Example: ZI_PTP_MaterialsBasic

TYPE CLASSIFICATIONS

Type	View Classification	Example
R	Basic interface view (Reusable)	ZR_MM_Materials
I	Composite interface view	ZI_MM_Purchasing
C	Consumption/Projection view	ZC_SD_SalesConsumption
A	Remote API view	ZA_HR_Employee_API
X	View extension	ZX_MM_PurchaseOrder_EXT
E	Extension include view	ZE_SD_SalesOrderInclude
F	Derivation function	ZF_FI_FinanceTaxCalc
D	Abstract entity	ZD_MM_LogisticsEntity

SUFFIX USAGE IN CDS NAMING

Suffix	View Type	Example
Query, Qry, or Q	Analytical query view	ZC_XXX_PurchaseOrder_Q
Cube or C	Analytical cube view	ZC_XXX_SalesData_C
Text, Txt, or T	Provider for language-dependent text	ZI_XXX_MaterialText_T
TP	Transactional processing view	ZC_XXX_FinanceJourEntries_TP
VH or StdVH	(Standard) value help view	ZI_XXX_Materials_VH or ZI_XXX_Materials_StdVH

SAP CDS FIELD NAMING CONVENTIONS

- Uniformity and Avoidance of Ambiguity:
- Legibility by Using Camel Case: CostCenter
- Avoidance of Abbreviations like Ord instead use Order

SAP CDS FIELD NAMING CONVENTIONS: NAMING STRUCTURE

- As a general rule, field names consist of up to 3 main elements:
  - Example: SalesOrderConfirmationDate

Naming Element	Example	Explanation
Object	SalesOrder	Defines an object class in terms of things in the real world.
Property	Confirmation	A feature shared by the instances of an object class.
Representation Term	Date	Indicates the data type represented by the field.

SAP CDS FIELD NAMING CONVENTIONS :REPRESENTATION TERM

Representation Term	Definition	Example Field Names
Identifier	A value identifying an instance	BankAccount, BankAccountUUID
Code	A value from a range of values	CorrespondenceLanguage, TransactionCurrency
Indicator	A boolean truth value	OrderIsReleased
Amount	A monetary amount	TaxAmount
Date	A calendar date	GoodsArrivalDate
Time	A specific time of day	ShiftDay I EndTime
Date and Time	A calendar date and time	CreationDateTime
Quantity	A countable or measurable amount	InspectedProductQuantity
Text	Textual information	GoodsLocationText
Duration	Duration between two points	ServiceWorkDuration

SAP RAP BUSINESS SERVICES

- Service Definition:
  - For UI Prefix: UI_ (e.g., ZUI_XXX_CUSTOMER)
  - Web API: Prefix: API_ (e.g., ZAPI_XXX_CUSTOMER)
- Service Bindings:
  - Web API V2: Prefix : _API Suffix: _O2 (e.g., ZAPI_XX_CUSTOMER_O2)
  - Web API V4: Prefix : _API Suffix: _O4 (e.g., ZAPI_XX_CUSTOMER_O4)
  - OData V2: Prefix : _UI Suffix: _O2 (e.g., ZUI_XX_CUSTOMER_O2)
  - OData V4: Prefix : _UI Suffix: _O4 (e.g., ZUI_XX_CUSTOMER_O4)

SAP RAP SOURCE CODE OBJECTS

- Behavior Pool: Prefix: BP_ (e.g., ZBP_XX_CUSTOMER)
- Handler Class: Prefix: LHC_ (e.g., ZLHC_CUSTOMER)
- Saver Class: Prefix: LSC_ (e.g., ZLSC_CUSTOMER)
- Association Should start with _CamelCase

TECHNICAL CATALOGS AND BUSINESS CATALOGS

- Technical Catalogs: Format: ZTC_<module ID>_CUSTO
  - Example: ZTC_XXX_CUSTOM
- Business Catalogs: Format: Z<module ID>_<BusinessProcess>
  - Example: ZXXX_SCHEDULING

SPACE AND PAGE CONFIGURATION

- Launchpad Space ID: Format: ZSP_<module ID>_<BusinessProcess>
  - Example: ZSP_XXX_Scheduling
- Launchpad Page ID: Format: ZPG_<module ID>_<BusinessProcess>
  - Example: ZPG_XXX_Scheduling

KEY RECOMMENDATIONS

- Always maintain consistency in naming conventions.
- Use descriptive terms for better readability.
- Prefixes and suffixes should align with the purpose of the object.
- Adhere to SAP documentation for updates.

Thank You for Watching!

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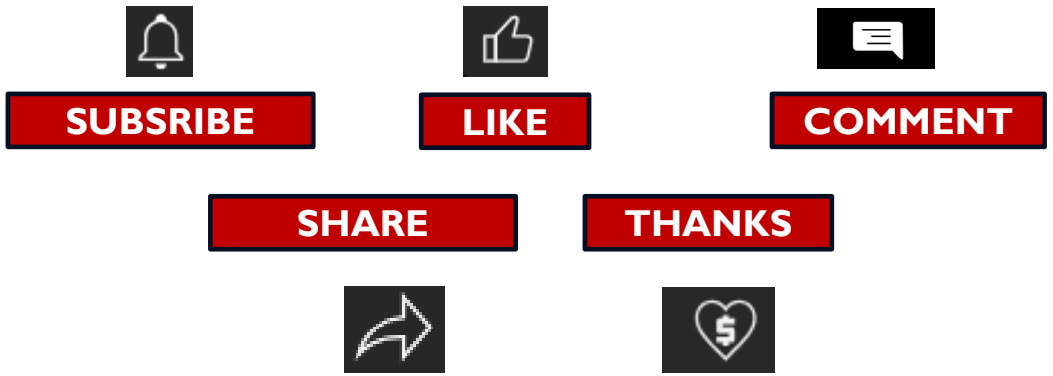

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Kickstarting Real-Time Projects with Your First CDS Using Released Artifacts

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From Concept to Reality: Practical CDS Data Modeling in SAP

SAP RAP
REAL-TIME PROJECT

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CDS Table Function: Real-World Example!

S

Since **I_ManufacturingOrderOperation** not released in current where we are working that is the reason we are getting these issue. I just want to show how you can use released CDS view.

NAMING CONVENTIONS IN RAP

- Best Practices:
  - Namespace Guidelines
  - CDS Entities and Naming Patterns
  - Behavior Definitions and Implementations
- Key Tip:
  - Consistent naming improves maintainability and aligns with SAP standards.

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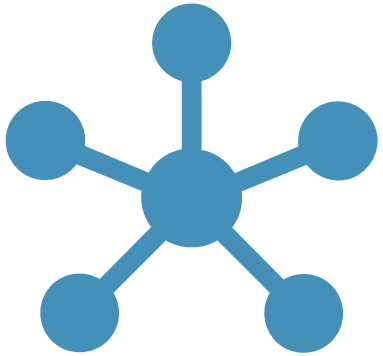
CDS TABLE FUNCTION

- What is it?
  - Definition and Usage in RAP.
- Why is it Needed?
  - Dynamic Data Retrieval
  - Complex Calculations.
- Example:
  - Briefly outline a simple table function query.

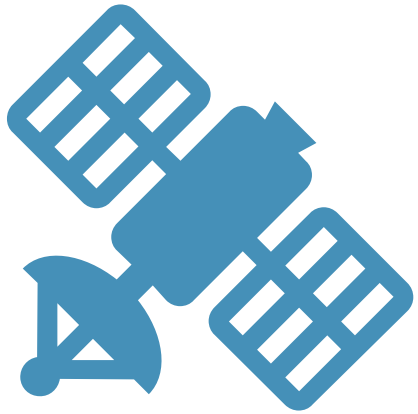
VIRTUAL ELEMENTS IN CDS

- Introduction:
  - What are Virtual Elements?
  - Use cases in RAP applications.
- How it Works:
  - Data annotation to bind custom logic to the UI.
- Example:
  - Displaying computed fields like "Net Price" without persisting data.

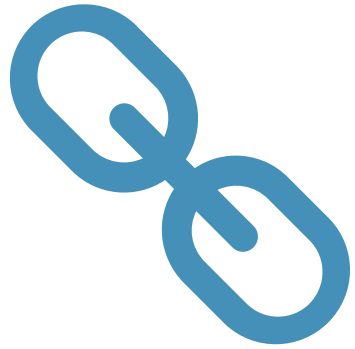
Here I have realized that I mistakenly used the term 'Production Order' instead of 'Process Order.' This is because I have mostly worked with Production Orders.
My apologies for the mix-up 🙂



Network



Satellite



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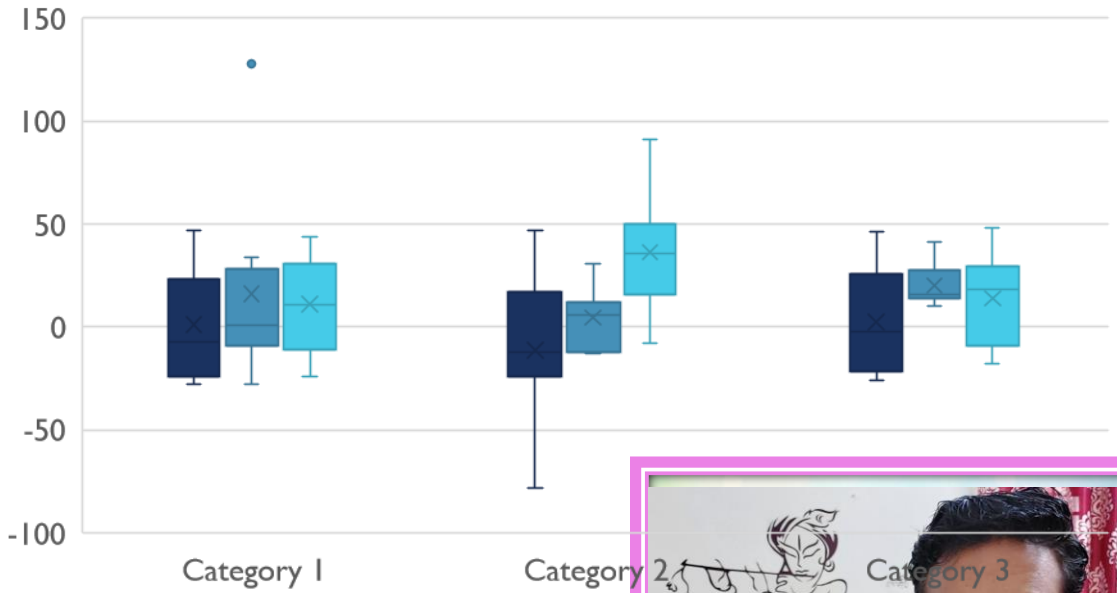
TECH REQUIREMENTS

COMPETITIVE LANDSCAPE



DIGITAL COMMUNICATIONS

- Cloud
- Local
- Hybrid

THANK YOU

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