

Tutorial Week 2 & 3 – Enterprise Systems – Sydney Campus



1. Summary of Lecture 1: Introduction to Enterprise Systems
2. Summary of Lecture 2: System Development Life Cycle and Introduction to SAI
3. Tutorial Week 2 & 3
4. Mastering SAP S/4HANA: A Comprehensive Guide to ERP System Integration and Application
5. Mastering SAP S/4HANA: A Comprehensive Guide to ERP System Integration and Application
6. Tutorial Week 2 & 3
7. Attendance

Lecturer/Tutor: Dr. Farshid Keivanian

Welcome to Weeks 2 and 3 of our tutorial series, where we dive deeper into the world of Enterprise Systems at the Sydney Campus. These sessions build upon the foundational knowledge from our previous lectures on interface design evaluation and enterprise systems. We'll explore expert reviews, usability testing, and various evaluation methods that are crucial for assessing the effectiveness of user interfaces. As we advance through these tutorials, we'll also engage with practical scenarios and hands-on SAP exercises to integrate theory with application, ensuring a comprehensive understanding of systems development and ERP system functionalities. This will prepare you for more complex concepts and applications in the coming weeks.

Overview of Enterprise Systems

Enterprise Systems are large-scale software applications designed to integrate and manage core business processes across an organization. Common types of ES include:

- **Enterprise Resource Planning (ERP):** Systems that integrate core business processes like finance, HR, manufacturing, supply chain, services, procurement, and others.
- **Customer Relationship Management (CRM):** Systems focused on managing customer information, sales, and marketing.
- **Supply Chain Management (SCM):** Systems that manage the flow of goods and services from manufacturing to customer delivery.

Objectives of Enterprise Systems

- **Integration:** Bringing together various business processes to ensure they work cohesively.
- **Automation:** Reducing the need for manual intervention in business processes.
- **Data Analytics:** Providing tools to analyze business operations and make informed decisions.

1. Summary of the Lecture 1: Introduction to Enterprise Systems



Benefits of Enterprise Systems

- Improved efficiency and productivity by streamlining processes.
- Enhanced visibility into operations, leading to better decision-making.
- Increased scalability and flexibility in business operations.

Challenges of Implementing Enterprise Systems

- High initial costs and ongoing maintenance expenses.
- Complexity of installation and customization.
- Resistance to change from employees.

1. Summary of the Lecture 1: Introduction to Enterprise Systems



Practical Example: A Retail Company in Australia Implementing ERP

Scenario:

Imagine a mid-sized retail company based in Sydney, Australia, aiming to manage its growing operations more effectively. The company decides to implement an ERP system to improve its inventory management, sales processing, and customer relationship management.

1. Summary of the Lecture 1: Introduction to Enterprise Systems



Steps Involved:

1. **Requirement Analysis:** Understanding the specific needs of the business, including inventory turnover rates and customer interaction data.
2. **System Selection:** Choosing an ERP system that best fits their needs, possibly SAP or Oracle.
3. **Customization and Integration:** Tailoring the ERP system to align with the company's processes and integrating it with existing systems.
4. **Training and Change Management:** Training staff to use the new system and managing the transition process.

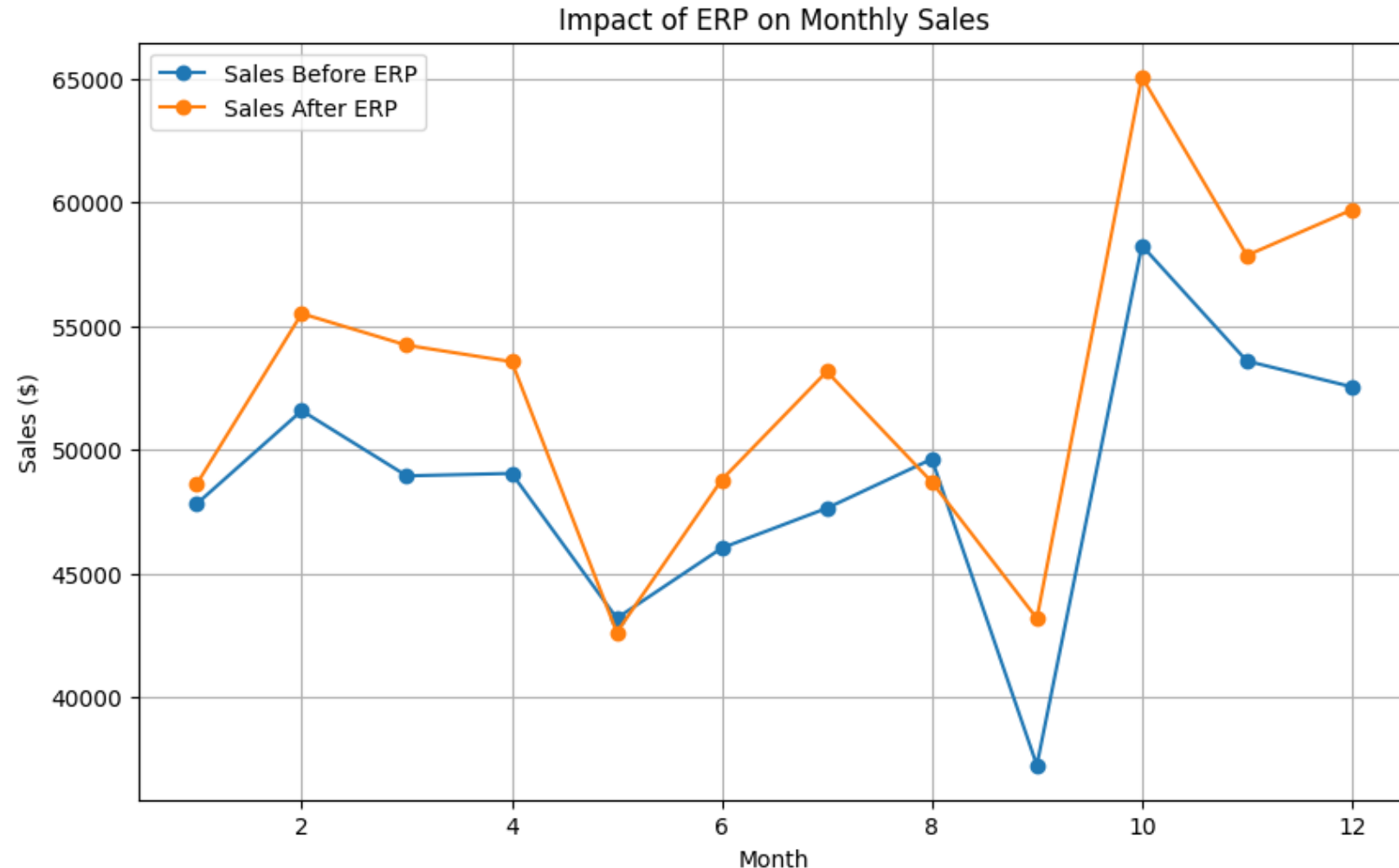
1. Summary of the Lecture 1: Introduction to Enterprise Systems

Data Analysis:

To show the impact of the ERP implementation, we could analyze monthly sales data before and after the ERP goes live.

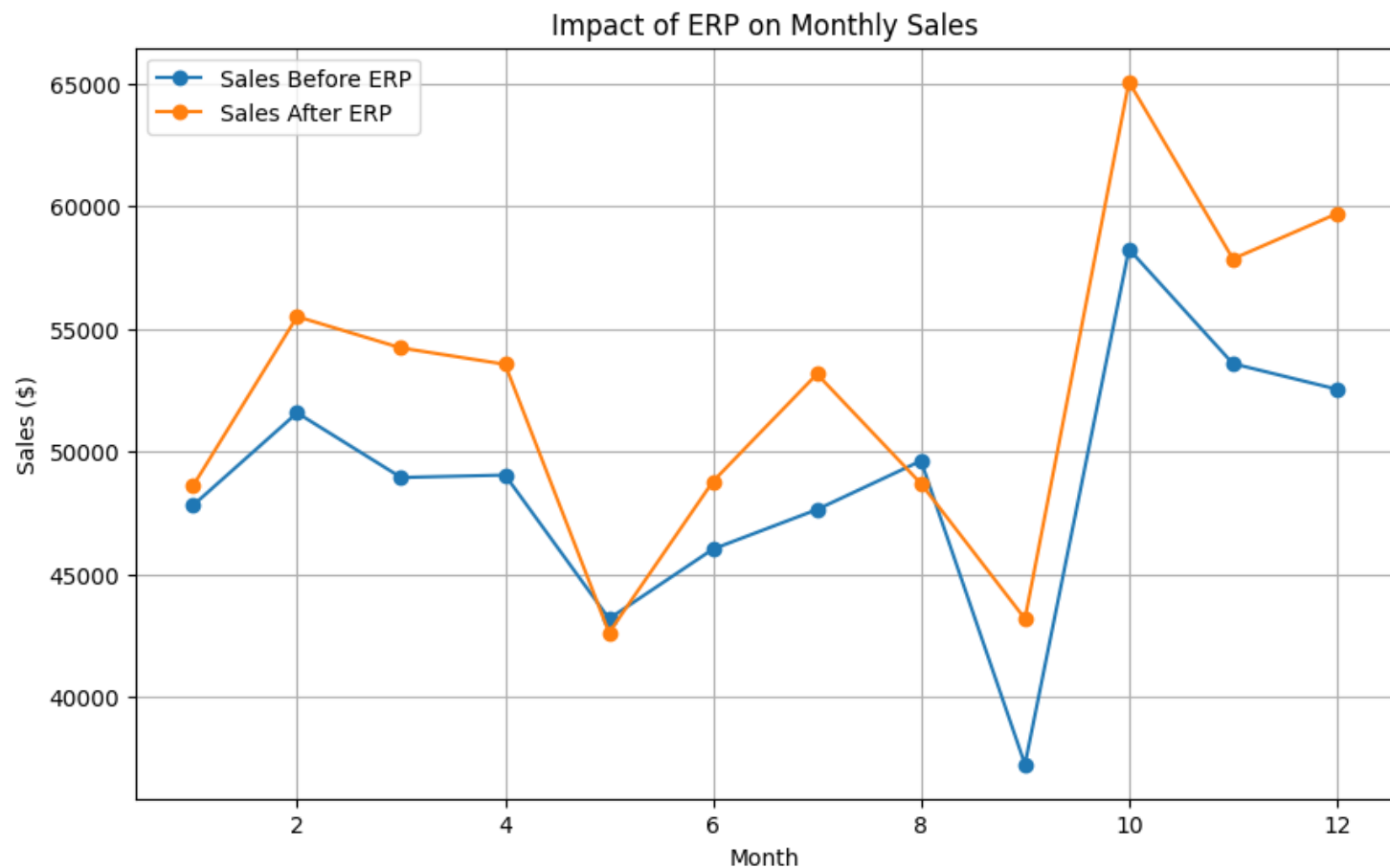
- Let's generate a hypothetical plot showing this:

This plot would ideally show an upward trend in sales post-implementation, illustrating the potential benefits of an ERP system for streamlining operations and boosting sales.



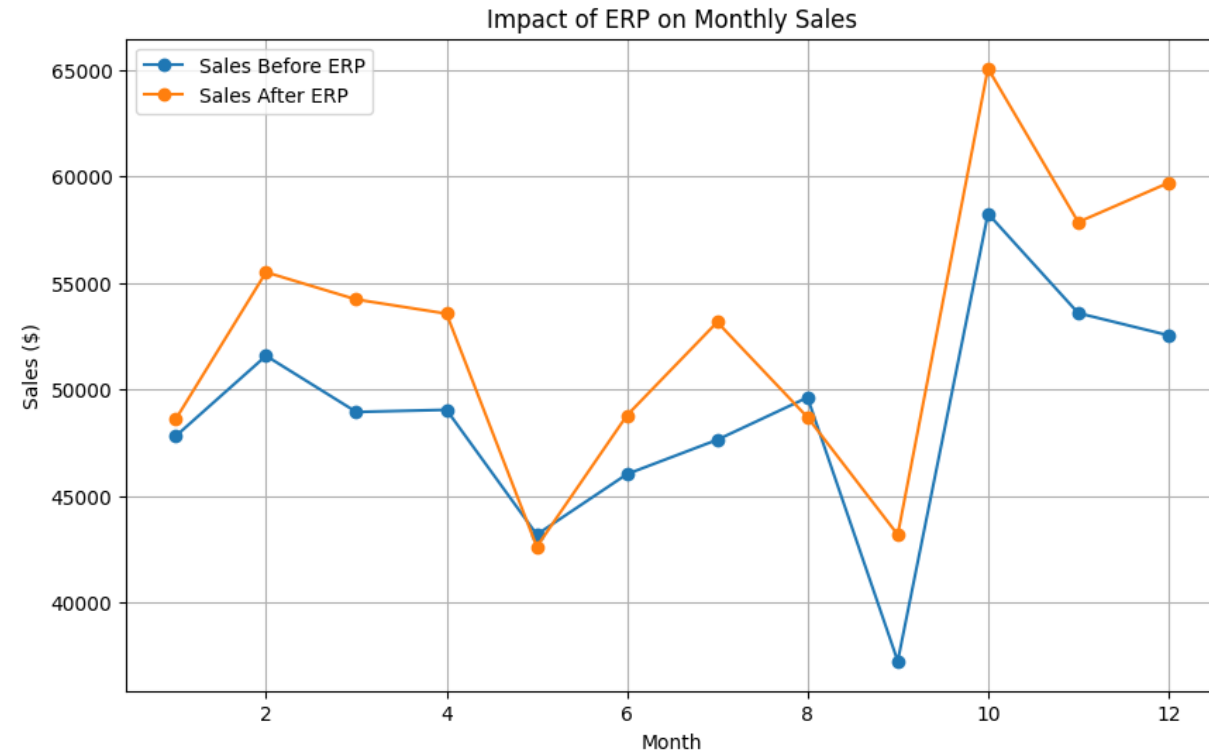
The plot compares monthly sales figures before and after the implementation of an Enterprise Resource Planning (ERP) system. Here's an analysis based on the visual information provided:

1. Sales Trends: There are two distinct lines on the plot representing sales data over a 12-month period. The blue line represents sales before the ERP was implemented, and the orange line represents sales after the ERP implementation.



1. Summary of the Lecture 1: Introduction to Enterprise Systems

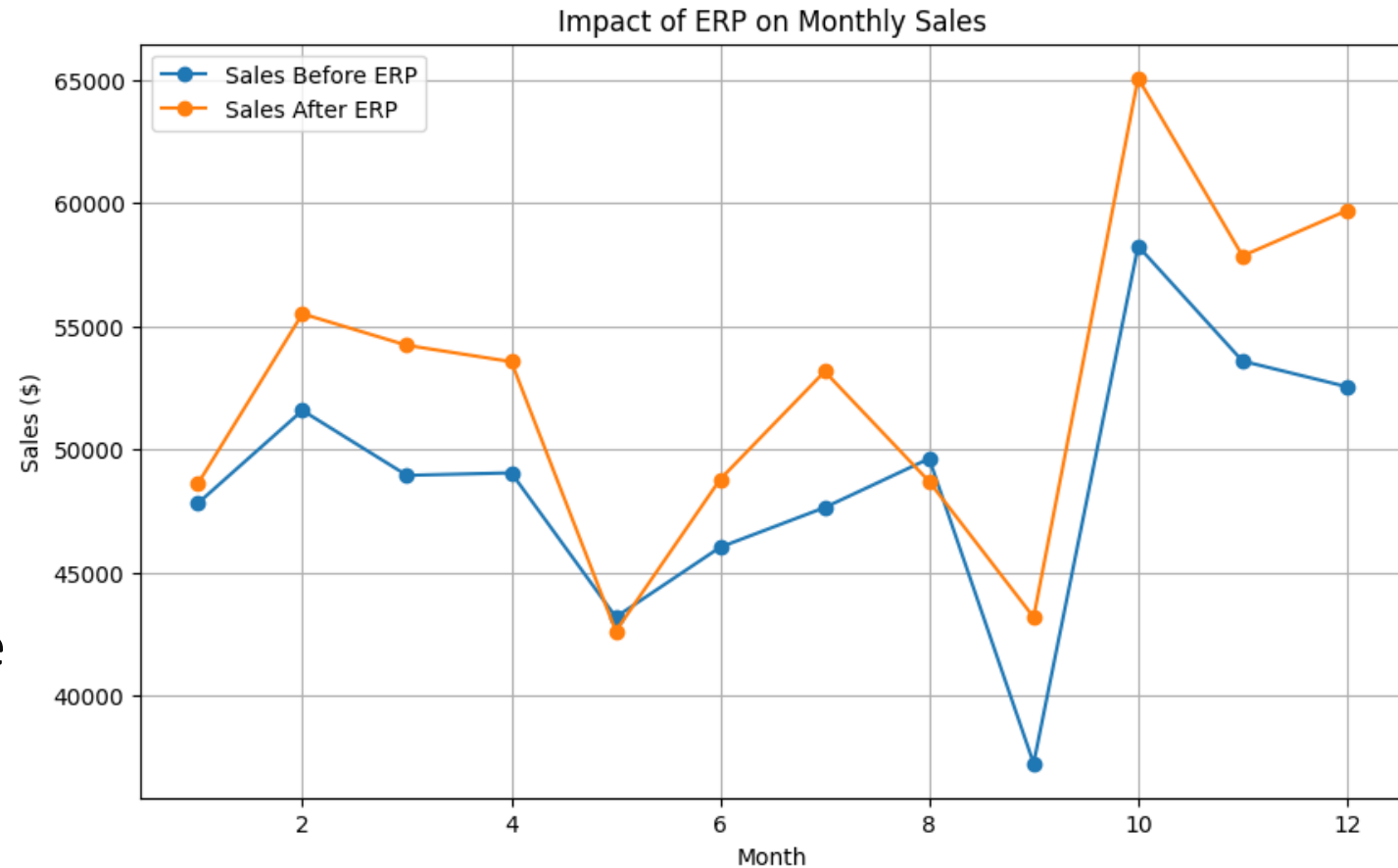
2. Volatility: The sales data both before and after the ERP implementation show variability throughout the year. This is typical for retail sales, which can fluctuate due to various factors such as seasonality, promotions, and market conditions.



3. Post-ERP Increase: The sales after ERP implementation, on average, seem to be higher than the sales before. This suggests that the ERP system may have had a positive impact on sales performance. However, without statistical analysis, we can't confirm if the increase is significant or simply due to natural fluctuations.

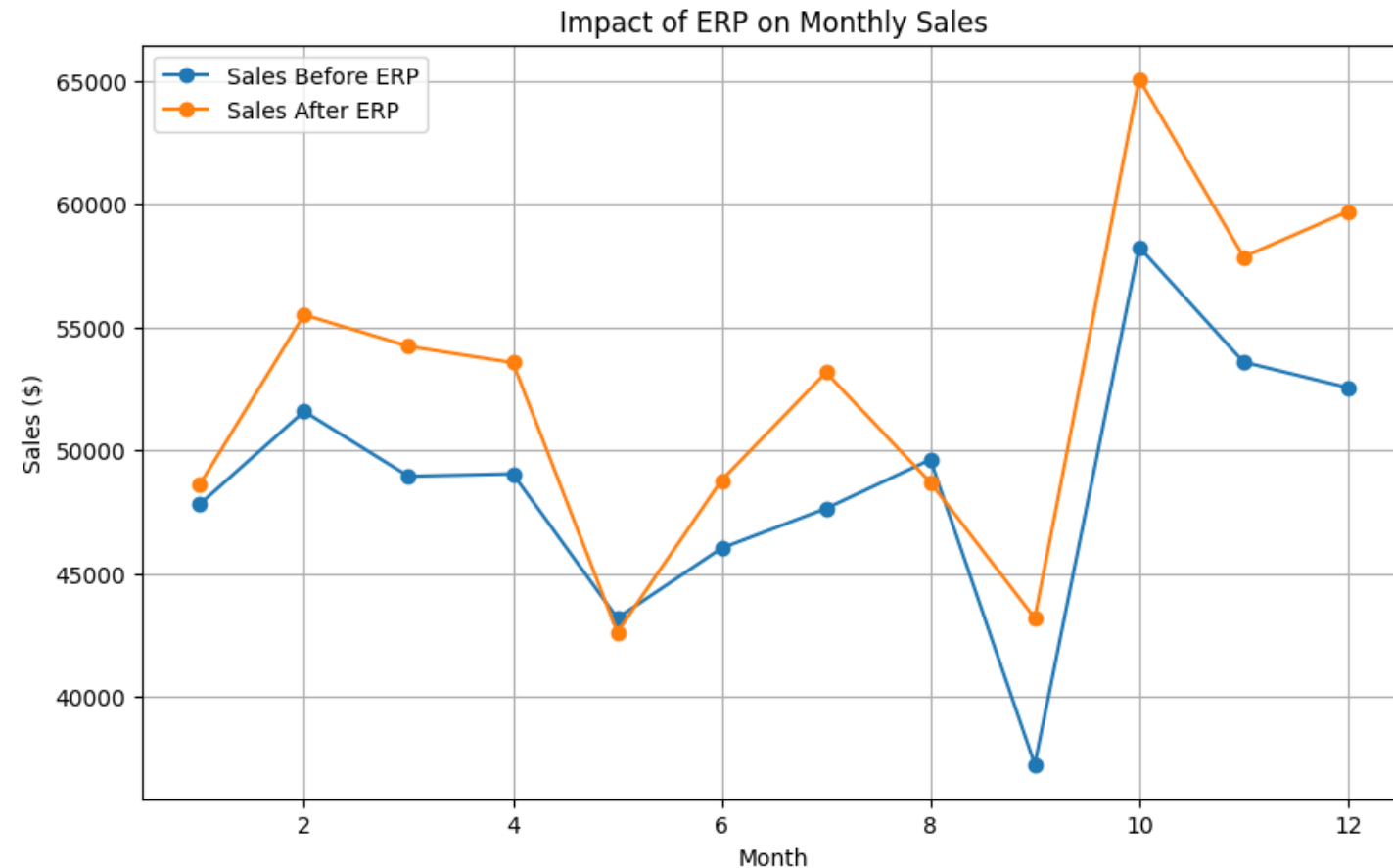
4. Seasonal Patterns: It's not clear from the plot if there are any seasonal patterns, as there is only one year of data. Multiple years would be needed to identify seasonality.

5. Data Spread: The range of sales both before and after ERP implementation shows a wide spread, indicating that there could be high variability in monthly sales figures. This could be due to external factors affecting sales or internal operational issues.



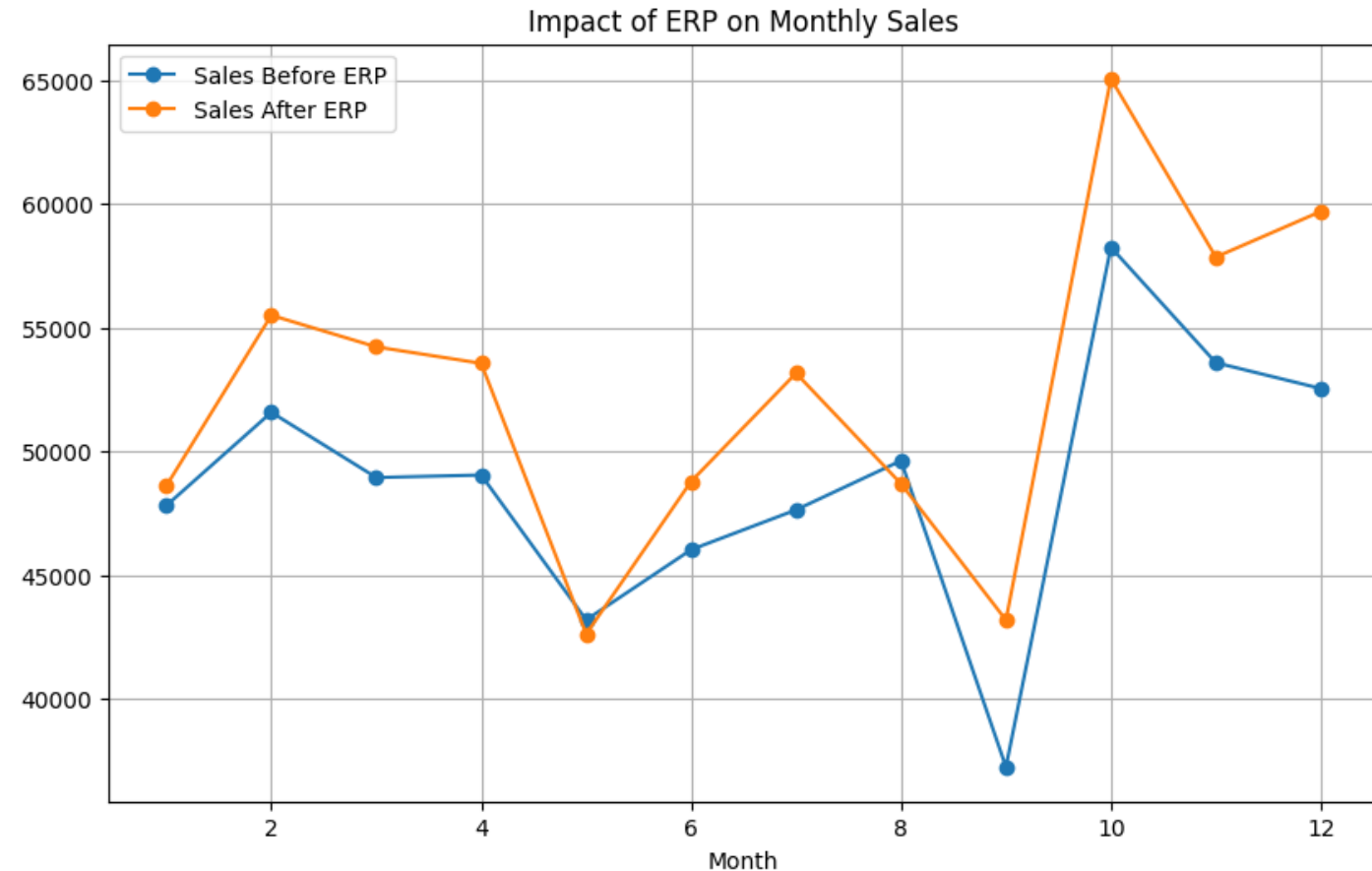
1. Summary of the Lecture 1: Introduction to Enterprise Systems

6. Highest and Lowest Sales: There are noticeable peaks and troughs in the plot. The highest sales after ERP implementation occur in the 11th month, while the lowest sales are seen in the 9th month. This could be due to seasonal effects or specific business activities.



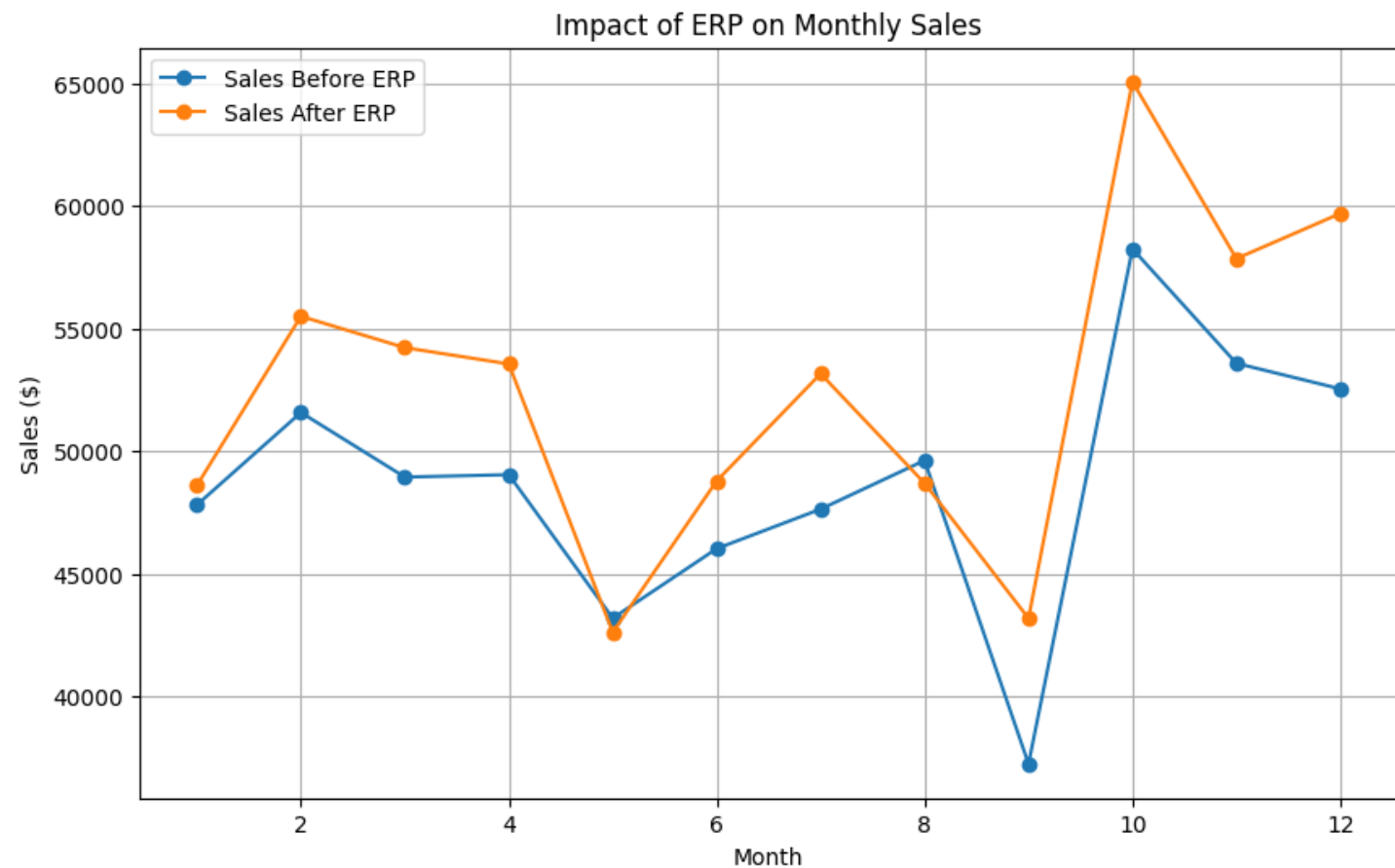
1. Summary of the Lecture 1: Introduction to Enterprise Systems

7. Data Generation: The data is synthetically generated using a normal distribution for both sets, with an imposed average increase of 10% for the post-ERP implementation data. In real-world scenarios, actual sales data would be needed for a substantive analysis.



To provide a more thorough analysis, we would typically:

- Assess the statistical significance of the difference in sales before and after ERP implementation using hypothesis testing.
- Analyze the data for patterns such as seasonality, trends, and outliers.
- Compare the results against industry benchmarks or internal targets to determine the relative success of the ERP implementation.



Given the random nature of the data generation, the analysis here is hypothetical. Real-world sales data would potentially include many more variables and require a deeper analytical approach to yield meaningful insights.

2. Enhancing SAP Software User Experience with Fiori: A Guide to Developing Custom Data Visualizations

SAP Fiori is a user experience design for SAP software. It represents a personalized, responsive, and simple user experience across devices and deployment options. Fiori uses web-based technologies like HTML5 and SAPUI5 to create a modern interface for SAP applications. While SAP Fiori itself is not a reporting tool, it provides a way to access SAP reports that have been created in the backend system.

For example, if the sales data is stored in an SAP system, you could use the analytical apps provided by SAP Fiori to visualize the data. These apps can connect to the backend SAP HANA database, where the data is processed, and then display the results in Fiori's user-friendly interface.

2. Enhancing SAP Software User Experience with Fiori: A Guide to Developing Custom Data Visualizations

However, to create custom visualizations, we would need to:

- Use SAP Analytics Cloud or SAP BusinessObjects for more complex and customizable reporting.
- Develop a custom SAPUI5 application that retrieves data from the SAP backend and uses a charting library to plot it.

SAPUI5 has its own set of controls for data visualization (e.g., VizFrame), which can be used to create charts and graphs.

2. Enhancing SAP Software User Experience with Fiori: A Guide to Developing Custom Data Visualizations

Here's a simplified outline of the steps for creating a similar chart in an SAP system:

1. **Data Preparation:** Ensure that the relevant sales data is available in the SAP system and accessible through an OData service or other API.
2. **SAPUI5 Application Development:**
 - Develop a custom SAPUI5 application.
 - Utilize SAPUI5 data visualization libraries to create the chart.
 - Bind the data source to the chart to display the data.
3. **Deployment:**
 - Deploy the application on the SAP Fiori launchpad.
 - Ensure that proper authorizations are set so the end-users can access it.

2. Enhancing SAP Software User Experience with Fiori: A Guide to Developing Custom Data Visualizations

To actually produce these results using SAP Fiori, you would need access to the SAP system, relevant permissions, and possibly the help of an SAP developer to create or customize an app for these specific reporting needs. The detailed implementation would be quite technical and would go beyond what we could outline in a general summary.

3. A summary of Lecture 2: System Development Life Cycle and Introduction to SAP

Lecture 2 focuses on understanding the Systems Development Life Cycle (SDLC), the ERP Implementation Life Cycle, and introducing SAP ERP systems. The lecture aims to compare and contrast the SDLC with the ERP Life Cycles (ERPLC), emphasizing the roles of project management office (PMO) and project organization in successful ERP implementations. Key components include:

3. A summary of Lecture 2: System Development Life Cycle and Introduction to SAP

- **SDLC Overview:** A review of traditional methodologies and approaches of SDLC.
- **ERP Implementation Life Cycle:** Understanding ERP implementation through a systematic approach, highlighting traditional and rapid ERP life cycles.
- **Introduction to SAP:** Overview of SAP as a company, its history, ERP solutions, and key business suits.
- **Case Study Review:** Application of theories through the Global Bike company case study, which is a practical application in an ERP environment.

3. A summary of Lecture 2: System Development Life Cycle and Introduction to SAP

Practical Example: SAP Implementation in an Australian Context

Scenario

Consider an Australian manufacturing company, "Aussie Cycles," which specializes in producing high-end bicycles. The company is transitioning from legacy systems to SAP ERP to streamline operations, enhance production efficiency, and improve inventory management.

3. A summary of Lecture 2: System Development Life Cycle and Introduction to SAP

Implementation Steps

1. **Project Preparation:** Define project goals, scope, and establish a project team. Secure executive buy-in from Aussie Cycles' senior management.
2. **Business Blueprint:** Develop a detailed plan of the company's business processes to configure SAP ERP, focusing on critical areas such as Procurement, Sales, Inventory, and Financials.

3. A summary of Lecture 2: System Development Life Cycle and Introduction to SAP

3. **Realization:** Configure the SAP system according to the blueprint, perform necessary customization, and prepare for testing.
4. **Final Preparation:** Conduct user training, system testing, and data migration. Prepare for go-live by ensuring all business and system requirements are met.
5. **Go-Live and Support:** Switch operations from the legacy system to the SAP ERP system. Provide ongoing support and resolve any post-implementation issues.

3. A summary of Lecture 2: System Development Life Cycle and Introduction to SAP

Example: Inventory Management Enhancement

Current Problem:

Aussie Cycles has issues with stock outs and excess inventory due to poor inventory management and forecasting.

SAP Solution:

Implement SAP's Material Management module to automate inventory tracking, improve material requirement planning, and optimize stock levels based on real-time data.

Expected Outcome:

Enhanced production planning, reduced storage costs, and improved customer satisfaction through better product availability.

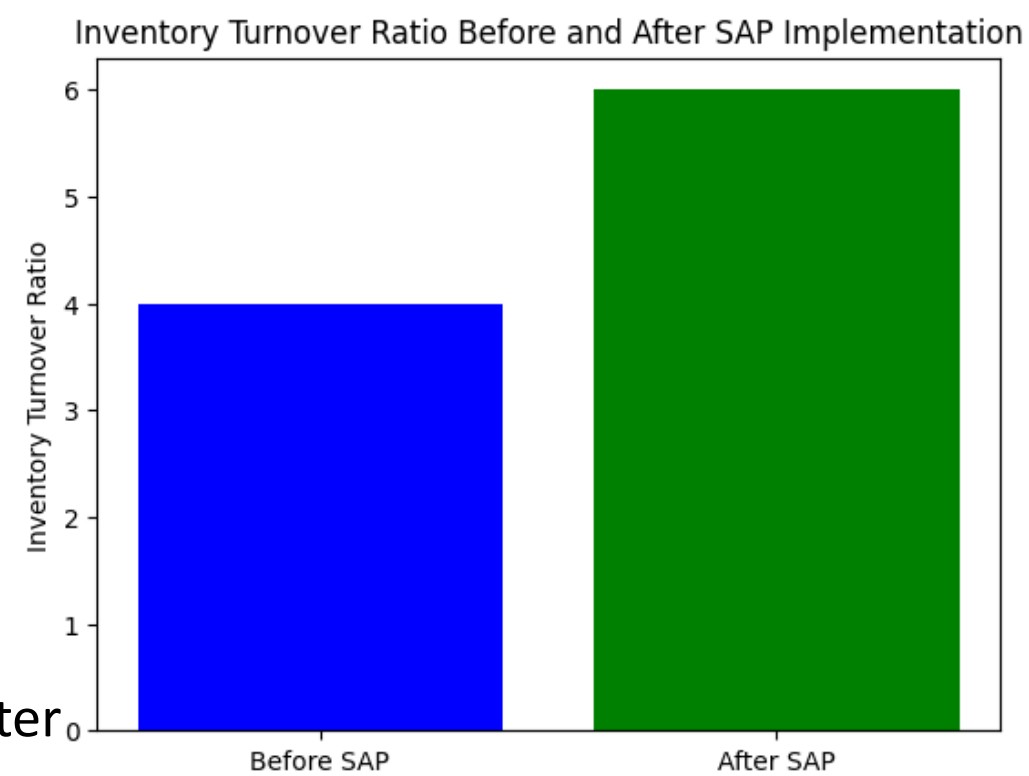
3. A summary of Lecture 2: System Development Life Cycle and Introduction to SAP

Visualization: Impact of SAP Implementation on Inventory Efficiency

Let's create a simple plot to visualize the expected improvement in inventory turnover ratio before and after SAP implementation. This ratio measures how often a company replaces its inventory in a given period and is a critical metric for assessing the efficiency of inventory management.

The bar chart illustrates the hypothetical impact of SAP implementation on the inventory turnover ratio of a business, where the inventory turnover ratio represents the number of times a company's inventory is sold and replaced over a period.

Before the implementation of SAP, the turnover ratio was 4, indicating that the inventory was turned over 4 times a year. After implementing SAP, the ratio increased to 6, suggesting a more efficient use of inventory, with stock being replenished 6 times a year. This 50% increase in the turnover ratio implies that the company is able to sell and restock its inventory more frequently, which can be indicative of better inventory management and potentially improved sales processes, assuming constant or improved sales levels.



4. Mastering SAP S/4HANA: A Comprehensive Guide to ERP System Integration and Application

For us to effectively understand about SAP S/4HANA and its application within enterprise systems, a structured approach to the content can be extremely beneficial. Here's a comprehensive breakdown of key concepts, integrated with practical examples and relevant visual aids when necessary.

Core Concepts for Understanding SAP S/4HANA

1. Introduction to ERP Systems

- What is an ERP System?
- Purpose and Benefits of ERP Systems
- Overview of SAP S/4HANA as an advanced ERP system.

2. Components of SAP S/4HANA

- **Core Modules:** Financials, Controlling, Sales, Accounting, Procurement, Fulfillment, Human Resources.
- **SAP Fiori:** Introduction to the user interface used in S/4HANA for enhanced user experience.

Week 4 & 5, Week 6 & 7, Week 8 & 9

3. Navigating SAP S/4HANA

- Login and User Interface: How to access and navigate the system.
- Use of Fiori Launchpad: Understanding its layout and customization options.

4. Data Management

- Master Data vs. Transactional Data: Definitions and roles within SAP systems.
- Material Master: Importance in inventory and supply chain management.

5. Business Process Integration

- How SAP integrates and automates various business processes across departments.
- Example workflows like Order to Cash or Procure to Pay.

6. Reporting and Analytics

- Overview of reporting tools available in SAP S/4HANA.
- How to generate and customize reports.

5. Mastering SAP S/4HANA: A Comprehensive Guide to ERP System Integration and Application

Practical Example in Australia

To provide a practical example, consider an Australian manufacturing company using SAP S/4HANA to integrate and streamline their operations:

- **Company Profile:** A Melbourne-based company producing and distributing electronics.
- **Business Need:** Integration of processes across multiple departments from manufacturing to sales.
- **SAP Implementation:** Utilization of SAP modules to manage production schedules, inventory, procurement, sales orders, and customer relationships.

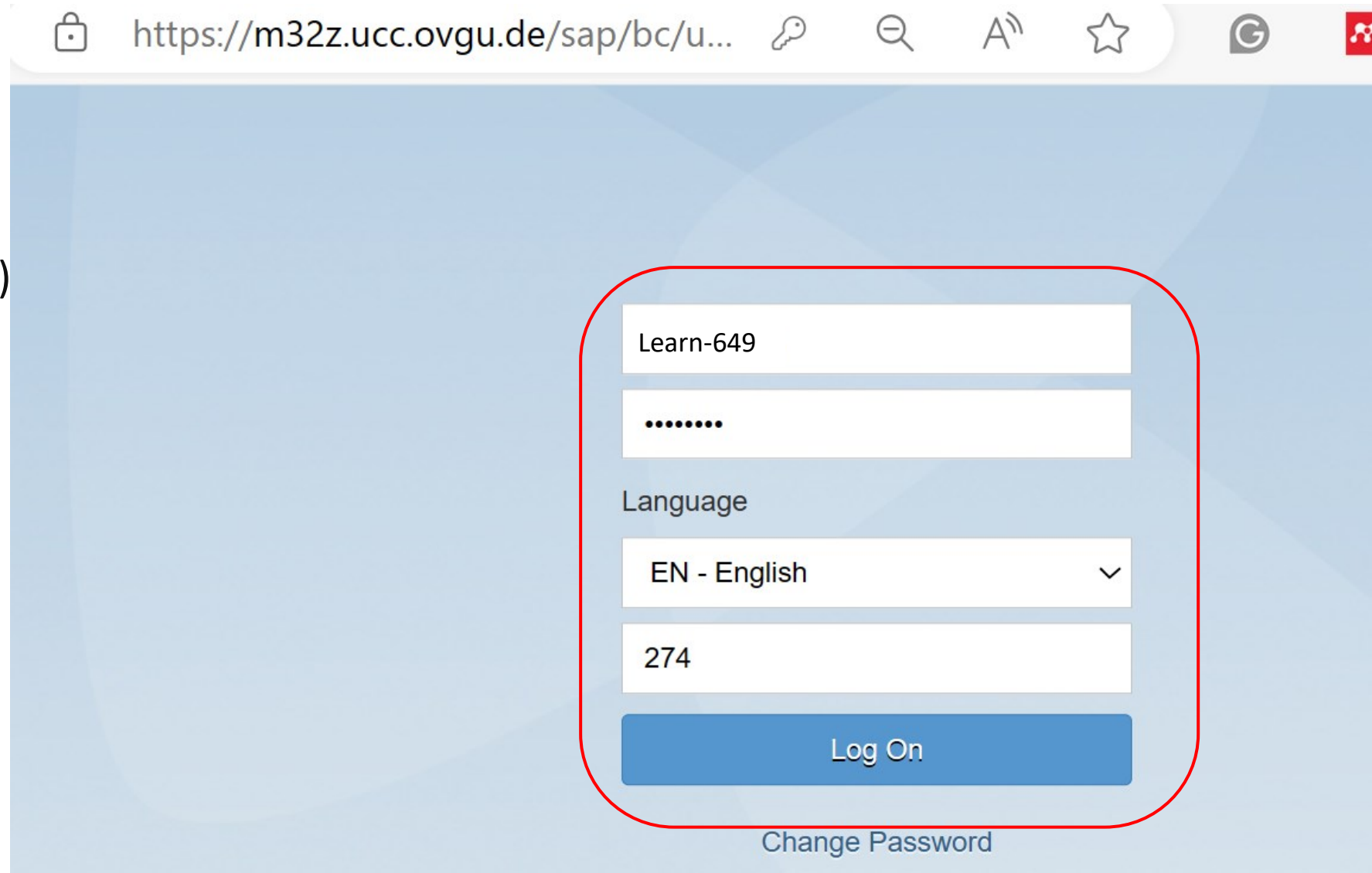
6. Tutorial Week 2 & 3

A) SAP Log in: <https://m32z.ucc.ovgu.de/sap/bc/ui2/flp>

Username) Learn-XXX

Learn-601 to Learn-650 (Sydney)

Initial Password) learnGBI



The screenshot shows a web browser window with the URL <https://m32z.ucc.ovgu.de/sap/bc/u...>. The login form is highlighted with a red rounded rectangle. It contains the following fields and elements:

- Username field: Contains the text "Learn-649".
- Password field: Contains seven dots ".....".
- Language dropdown: Labeled "Language", with "EN - English" selected and a downward arrow.
- Field with "274": A text input field containing the number "274".
- Log On button: A blue button with the text "Log On".
- Change Password link: A blue link labeled "Change Password" located below the login form.



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HS2041 – Enterprise Systems

Introduction to SAP ERP S/4HANA

Overview

- SAP is a German Company (formed in 1972), that is currently one of the world's leading producers of software for the management of business processes (Enterprise Resource Planning Systems etc)
- SAP stands for System Applications and Products in data processing.
- S/4HANA refers to the **4th Generation** of SAP Business Suite based on the in-memory database (High performance ANalytic Apppliance) that allows companies to perform transactions and analyse business data in real time.
- **Fiori** is a design language and user experience approach that supports the creation of business apps with a consumer-grade user experience, turning casual users into SAP experts with simple screens that run on any device.

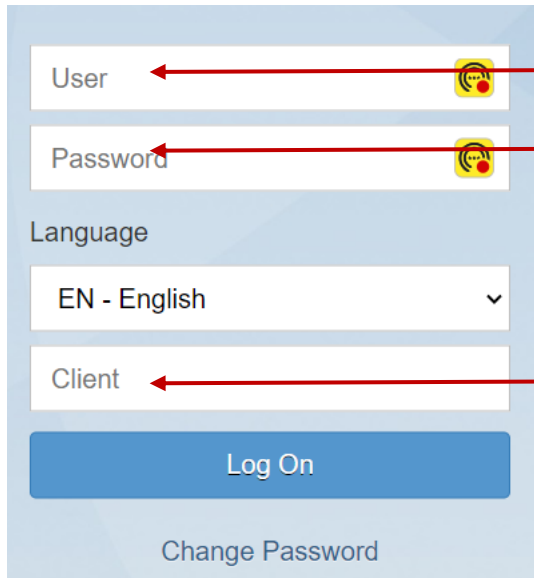


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Logging in to S/4HANA

Logging in to the SAP S/4HANA System

- To access the SAP system, use the Web-GUI link below:
 - <https://m32z.ucc.ovgu.de/sap/bc/ui2/flp>
- The SAP Login Screen appears, follow the advice to sign in:

The image shows the SAP Login screen. It has a light blue background. At the top, there's a 'User' input field with a red arrow pointing to it from the text 'Your username is Learn-XXX (XXX is the number provided by your Lecturer/Tutor.)'. Below it is a 'Password' input field with a red arrow pointing to it from the text 'The initial password is learnGBI (case sensitive)'. Under the password field is a 'Language' section with a dropdown menu showing 'EN - English'. Below that is a 'Client' input field with a red arrow pointing to it from the text 'The Client number for Holmes Institute is 274'. At the bottom, there is a blue 'Log On' button and a smaller, lighter blue 'Change Password' link.

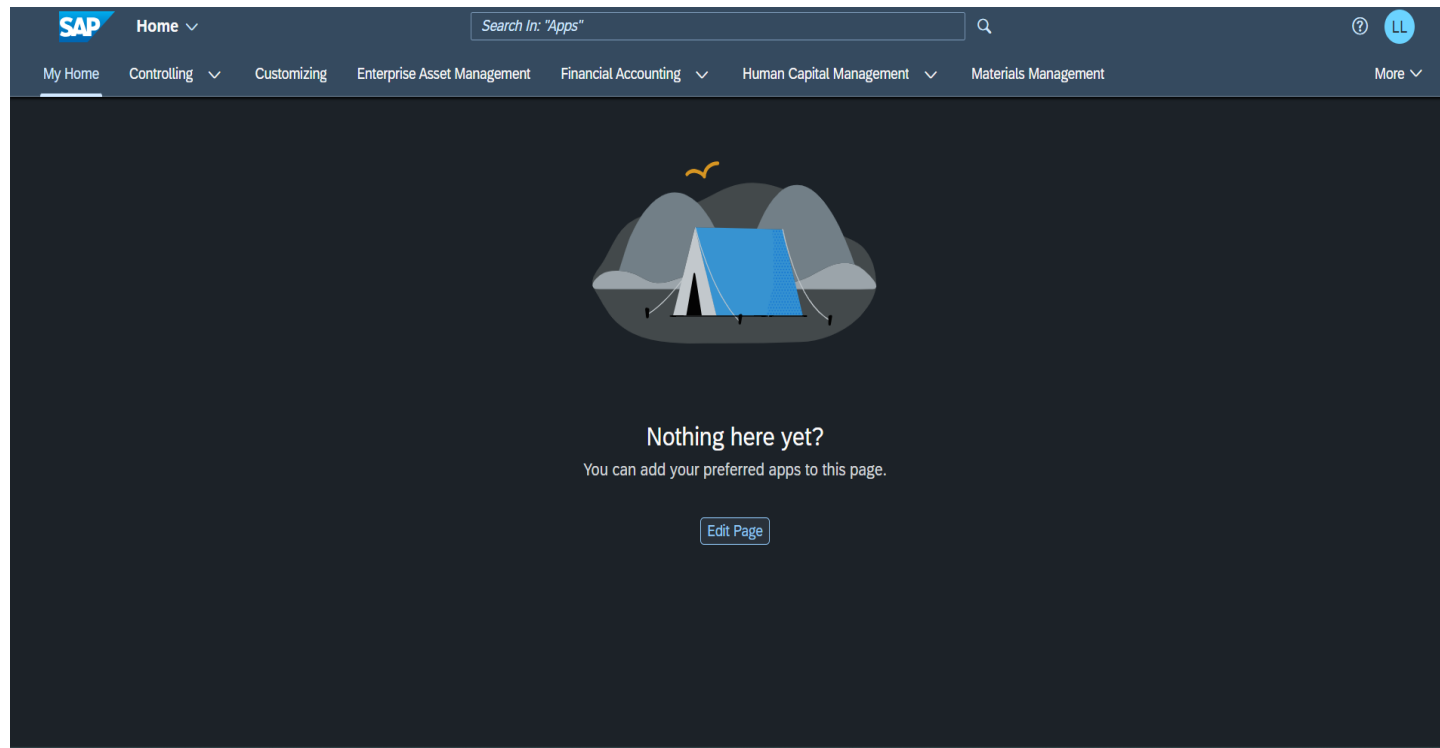
- The password needs to be changed after the initial sign-in and will be used for all future log-ins.



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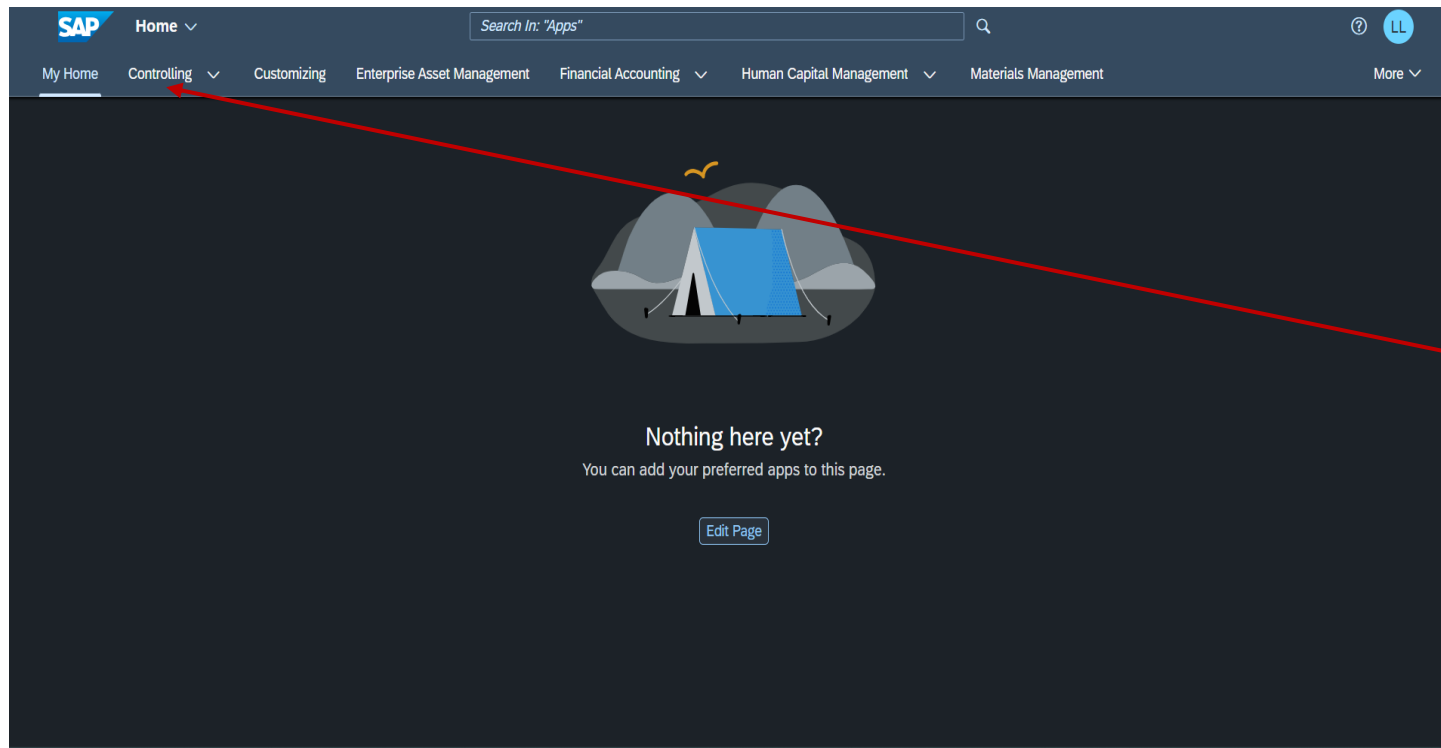
Understanding the GUI Interface for S/4HANA

- The first screen that appears is the SAP Fiori launch home pad and is the main entry point for the SAP Fiori apps on mobile and desktop devices.



Exploring the Controlling Space

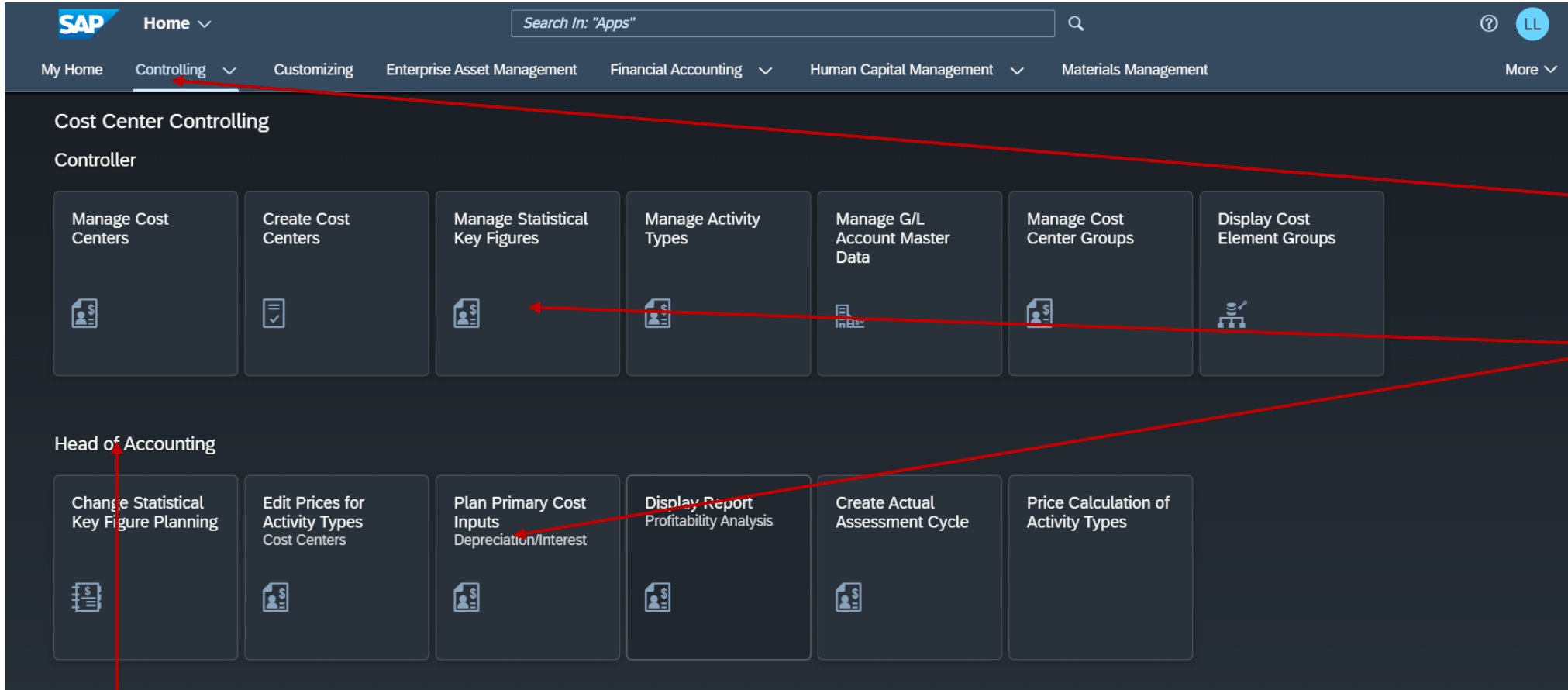
- For the Introduction workshop (Week 2 & 3), we will be using the Controlling space from the Selection bar.



Click on
Controlling in
the Space
Selection Bar

Understanding the Fiori GUI

- The Fiori GUI includes several elements as referred below:



Space Selection Bar

Tiles

Role



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Global Bikes Inc. (Case Study Scenario)

Case Study Scenario

- Global Bikes Inc (GBI) is a fictitious company whose data is provided in the SAP System for analytical purposes.
- The company (GBI) was founded in 2001 following the merger of two bicycle manufacturers, one based in the US and the other in Germany.
- GBI has three lines of business:
 - deluxe and professional touring bikes,
 - men's and women's off-road bikes,
 - and bike accessories.
- GBI sells its bikes to a network of specialised dealers throughout the world, and it procures its raw materials from a variety of suppliers globally.

Case Study Scenario (Contd)

- GBI has two manufacturing facilities in the US and one in Germany.
- It also has three additional warehouses, two in the US and one in Germany.
- GBI has more than 100 employees globally.
- The organisation uses SAP ERP to support its processes.
- The company has a new bicycle for sale- Mongoose Mountain Bike. The SAP systems contain all the necessary data to support GBI's business processes.

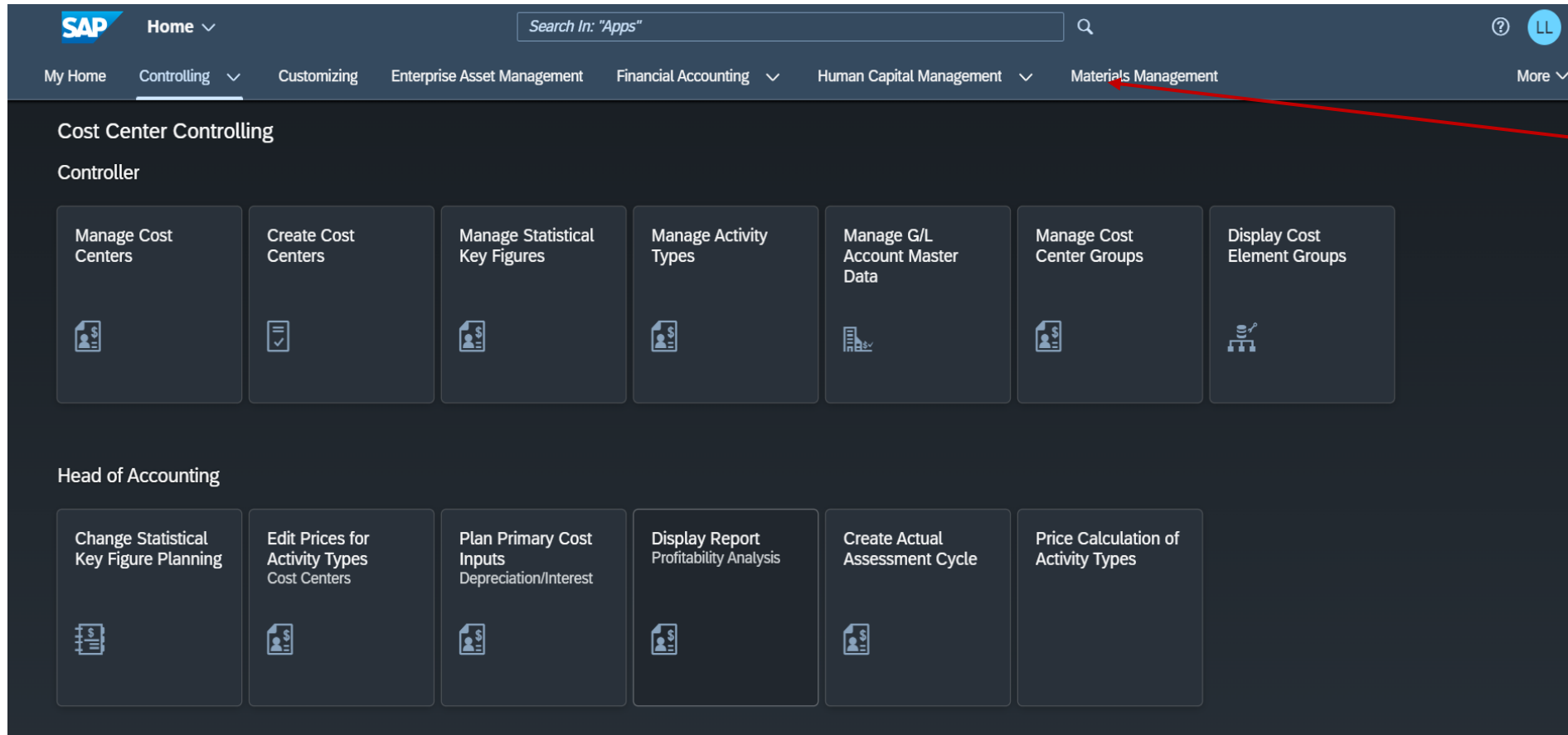


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Understanding Data Navigation in SAP S/4HANA

Master Data Navigation

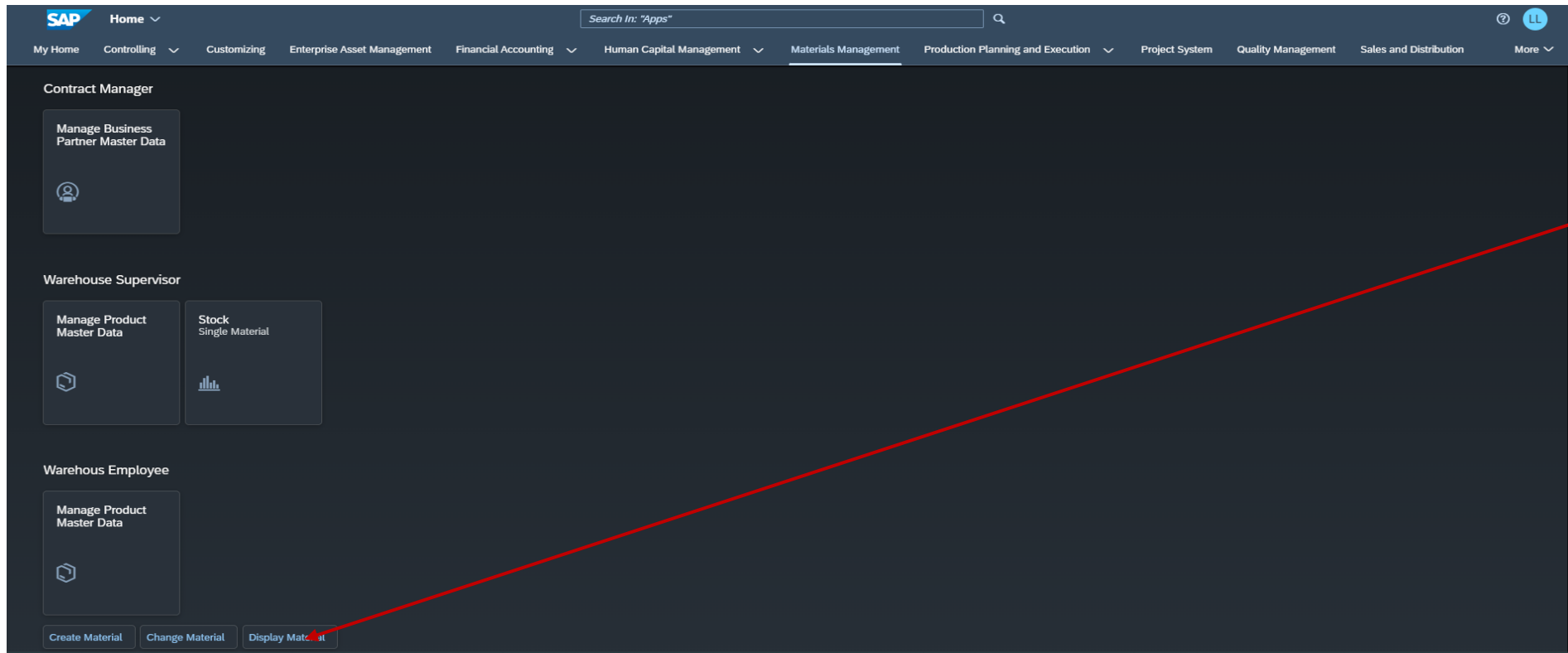
- This exercise is focused on navigating the Master Data for a particular product.



Click on
**Materials
Management**
Space to view
the apps and
roles

Master Data Navigation (Contd)

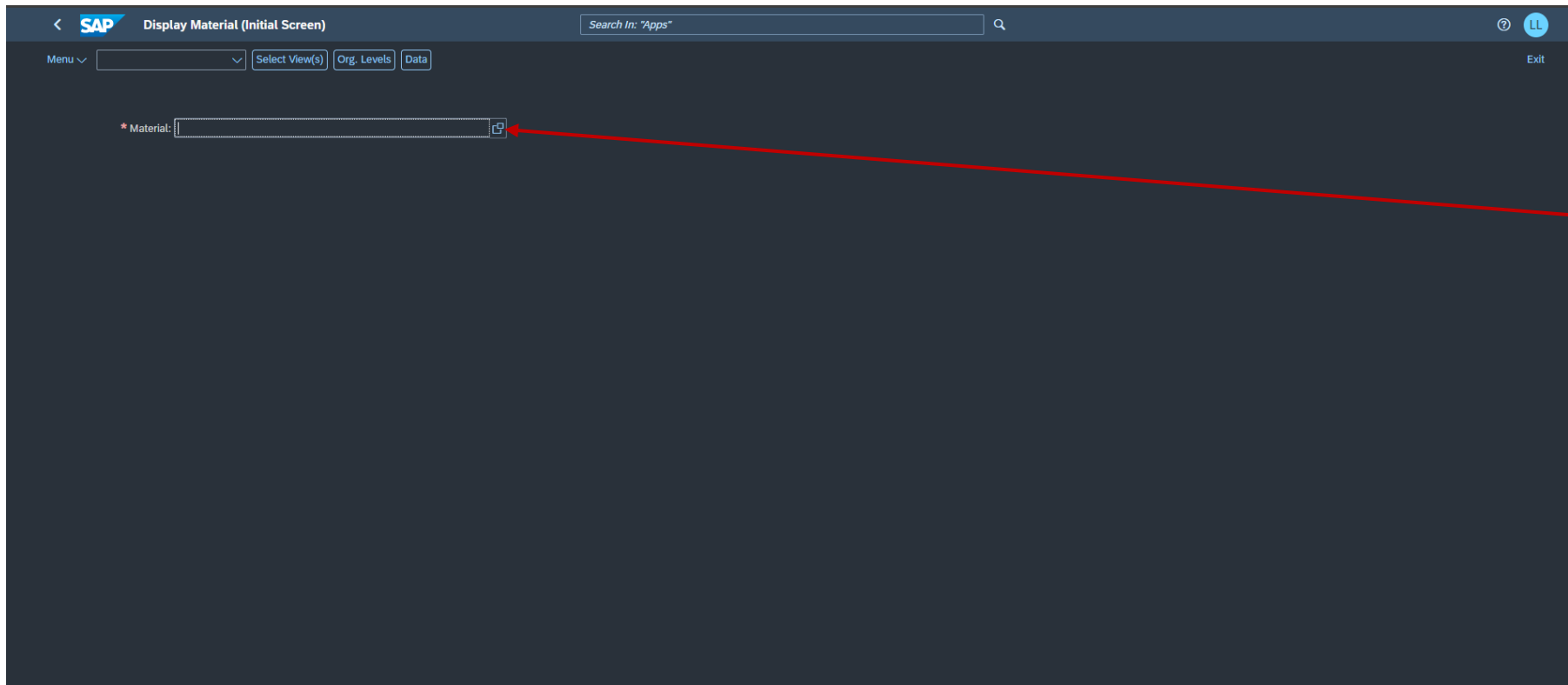
- The task is to view the particulars of a specific product “Deluxe Touring Bike”. The roles in the space indicate that the “Warehouse Employee” role is suitable to “Display Materials”



Click on
**Display
Material**
In the role of
Warehouse
Employee to
start the
transaction.

Master Data Navigation (Contd)

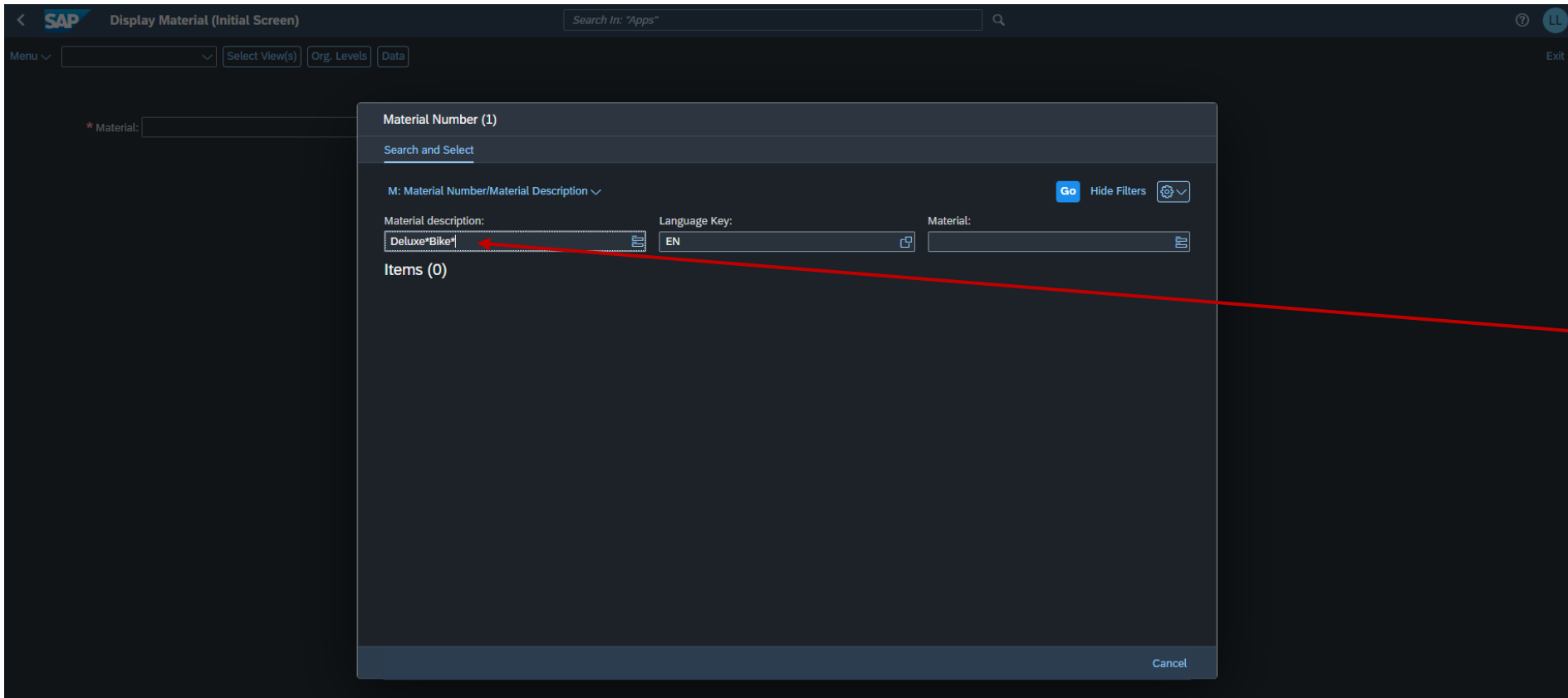
- Searching for a particular item can be initiated by using wildcards as illustrated in the [tutorial handout](#).
- To commence the search, the search dialog box must be displayed.



Click on **Icon** to display the search dialog box.

Master Data Navigation (Contd)

- We will use the materials description to search for the Deluxe Touring Bike particulars.

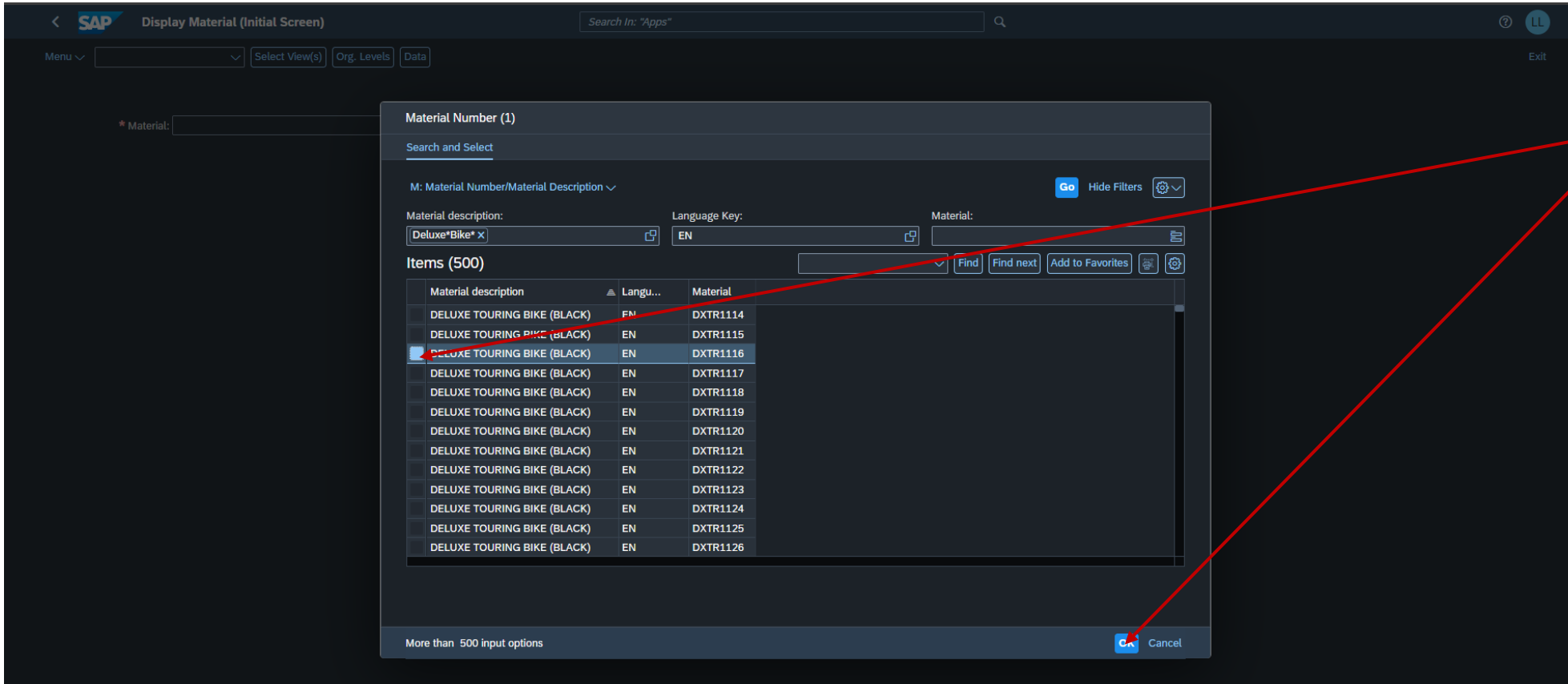


The screenshot shows the SAP Display Material (Initial Screen) with a search and select dialog box open. The dialog box has a title bar "Material Number (1)" and a "Search and Select" section. Below this, there is a dropdown menu "M: Material Number/Material Description" with a "Go" button and a "Hide Filters" button. The "Material description:" field contains the text "Deluxe*Bike*", which is highlighted by a red arrow. The "Language Key:" field contains "EN". The "Material:" field is empty. Below these fields, there is a section "Items (0)" which is currently empty. A "Cancel" button is located at the bottom right of the dialog box.

Type
Deluxe*Bike*
in the Material
Description
and press the
Enter key

Master Data Navigation (Contd)

- To view the product details, click on any matching item from the list.



The screenshot shows the SAP 'Display Material (Initial Screen)' interface. A search for 'Deluxe*Bike*' has been performed, resulting in a list of 500 items. The first item in the list is highlighted with a blue selection bar. A red arrow points from the text 'Select any matching item from the list and press ok' to this highlighted item. Another red arrow points from the same text to the 'OK' button at the bottom right of the dialog.

Material Number (1)

Search and Select

M: Material Number/Material Description

Material description: Deluxe*Bike* x Language Key: EN Material:

Items (500)

Material description	Language	Material
DELUXE TOURING BIKE (BLACK)	EN	DXTR1114
DELUXE TOURING BIKE (BLACK)	EN	DXTR1115
DELUXE TOURING BIKE (BLACK)	EN	DXTR1116
DELUXE TOURING BIKE (BLACK)	EN	DXTR1117
DELUXE TOURING BIKE (BLACK)	EN	DXTR1118
DELUXE TOURING BIKE (BLACK)	EN	DXTR1119
DELUXE TOURING BIKE (BLACK)	EN	DXTR1120
DELUXE TOURING BIKE (BLACK)	EN	DXTR1121
DELUXE TOURING BIKE (BLACK)	EN	DXTR1122
DELUXE TOURING BIKE (BLACK)	EN	DXTR1123
DELUXE TOURING BIKE (BLACK)	EN	DXTR1124
DELUXE TOURING BIKE (BLACK)	EN	DXTR1125
DELUXE TOURING BIKE (BLACK)	EN	DXTR1126

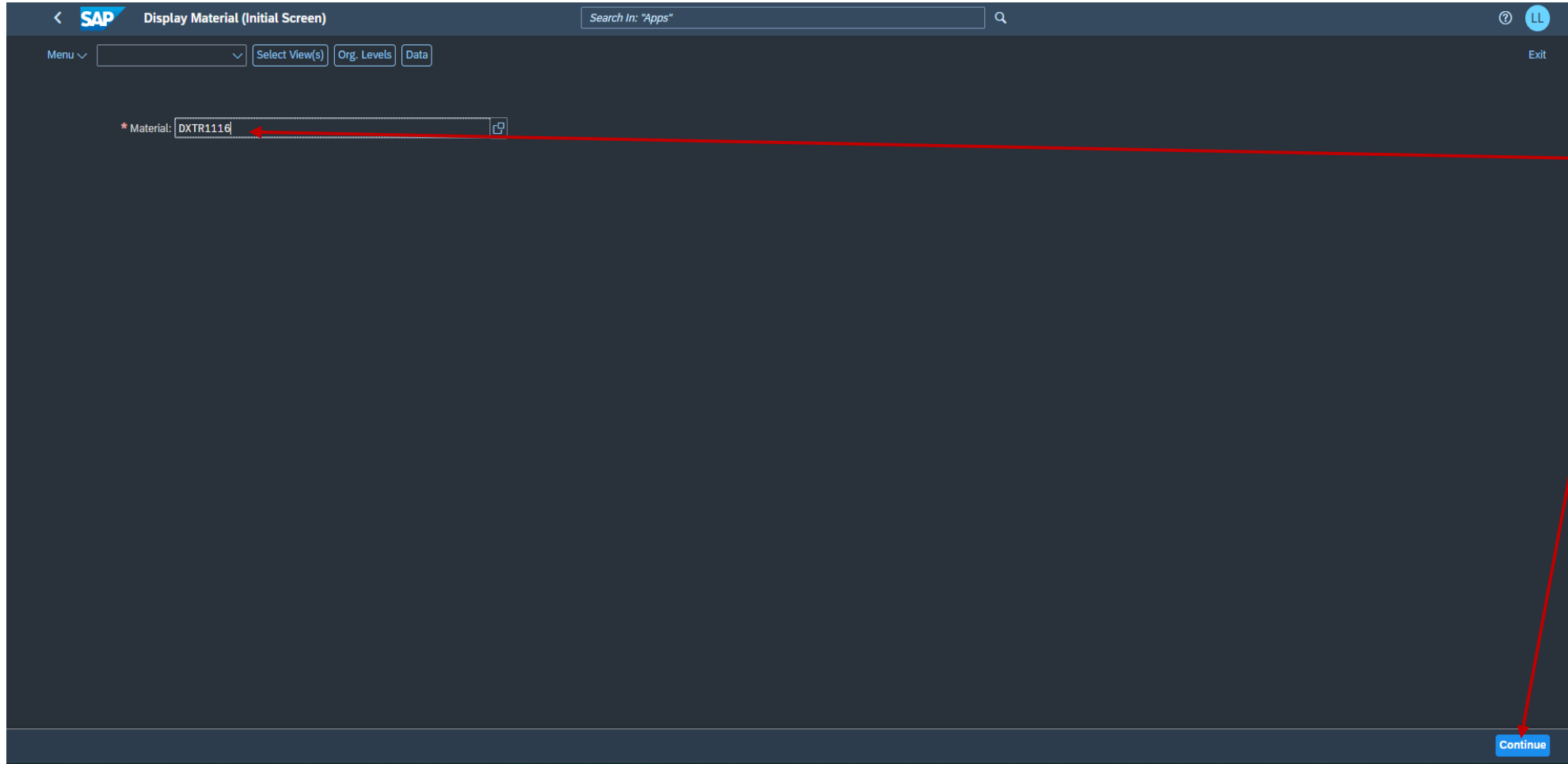
More than 500 input options

OK Cancel

Select any matching item from the list and press ok

Master Data Navigation (Contd)

- The selection is displayed as Item code, press continue.

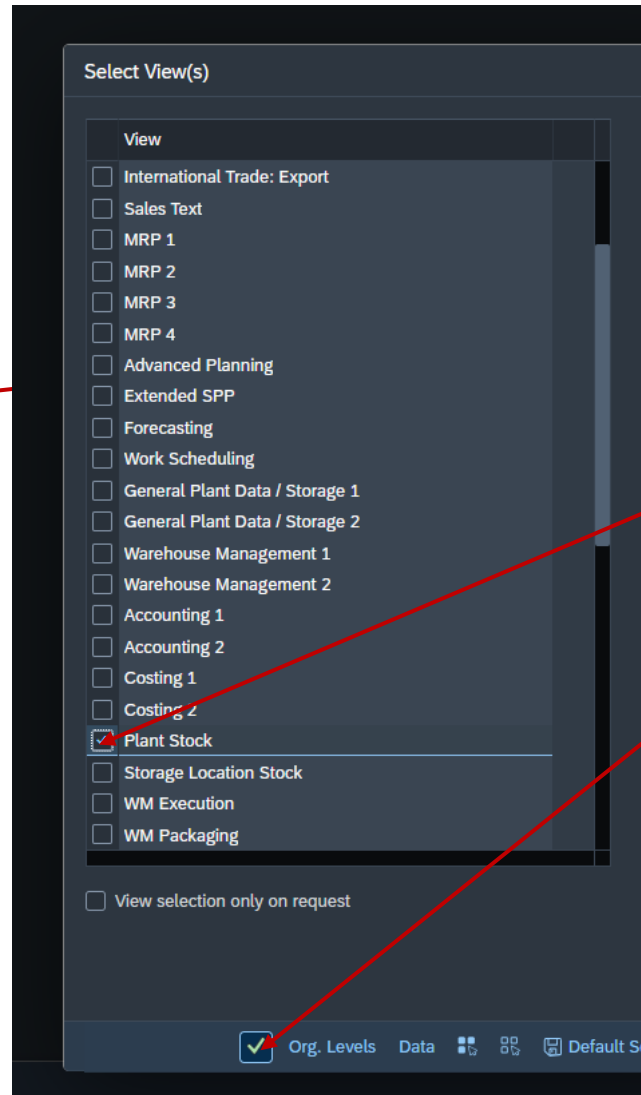
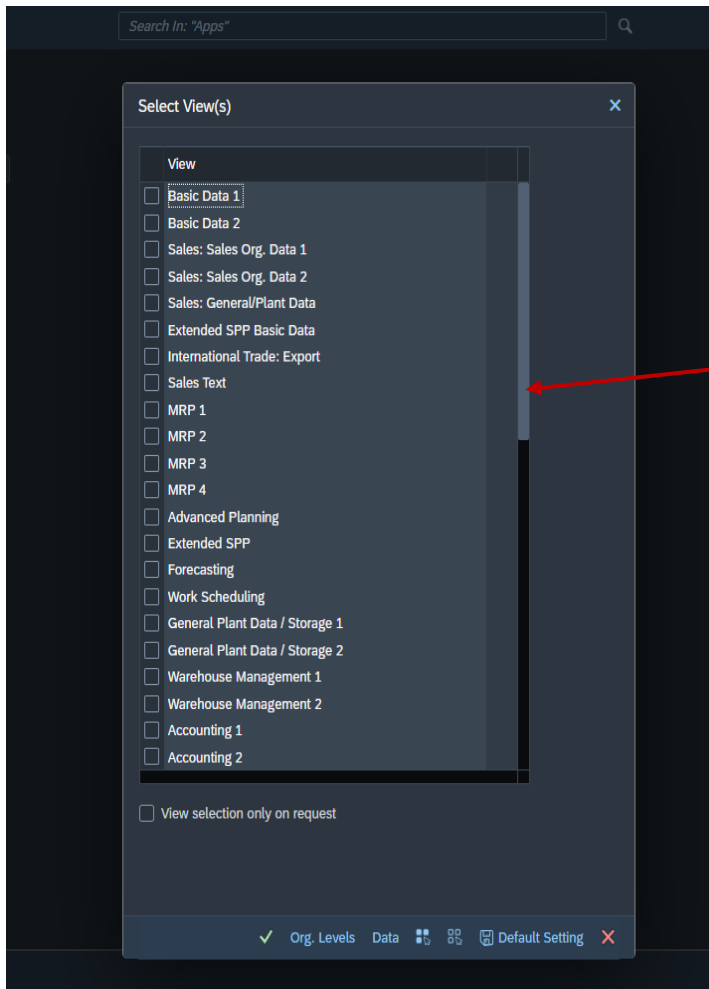


The screenshot shows the SAP 'Display Material (Initial Screen)' interface. At the top, there is a search bar with the text 'Search In: "Apps"'. Below the search bar, there are buttons for 'Menu', 'Select View(s)', 'Org. Levels', and 'Data'. The main area of the screen is dark blue. In the top left of this area, there is a label '* Material:' followed by a text input field containing 'DXTR1116'. A red arrow points from the text 'Product Item code is displayed, press continue.' to the 'Continue' button at the bottom right of the screen.

Product Item
code is
displayed,
press continue.

Master Data Navigation (Contd)

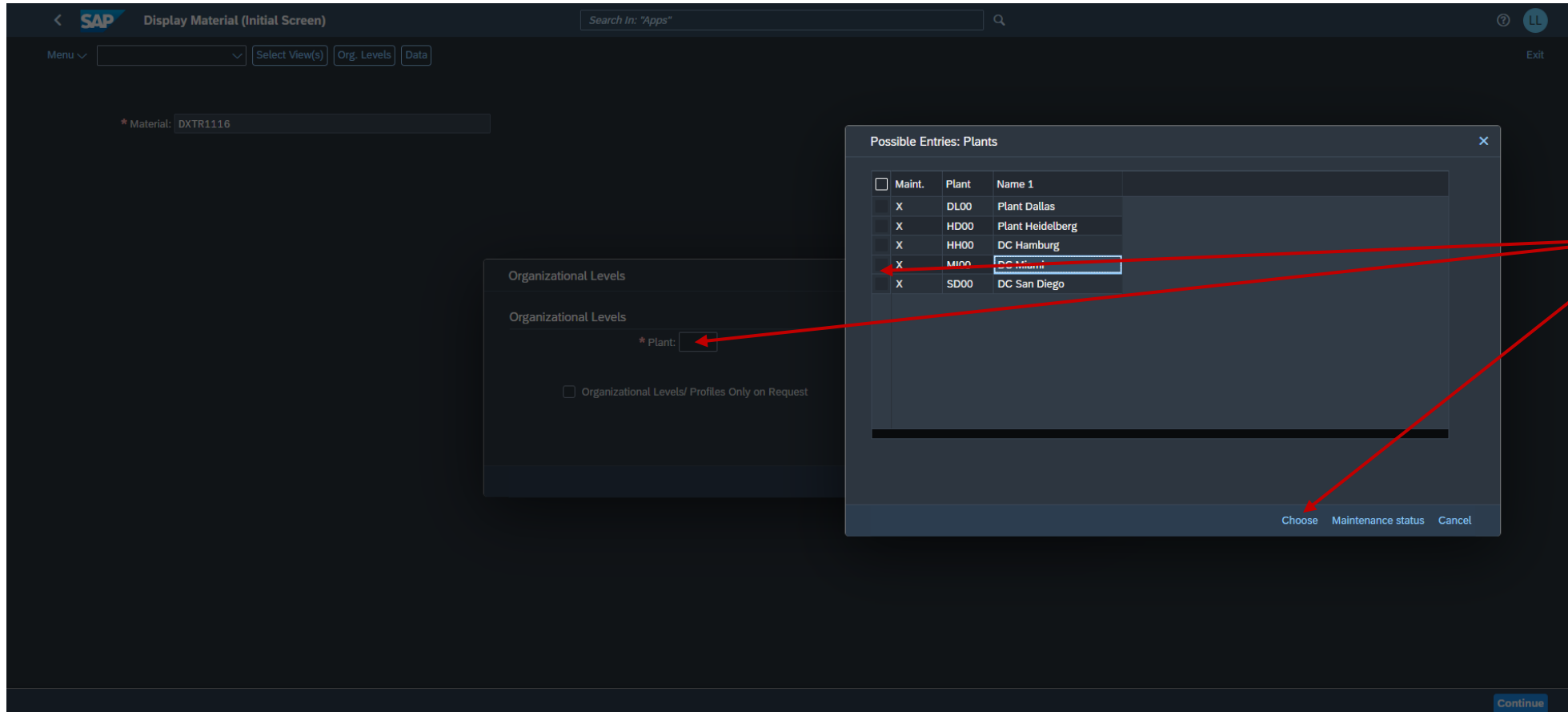
- The next screen requires the selection of the data source.



Use the scroll bar to view more options, and select **Plant Stock** and click on ✓

Master Data Navigation (Contd)

- Next screen requires the selection of the plant location.



The screenshot shows the SAP 'Display Material (Initial Screen)' interface. The material number 'DXTR1116' is entered. A modal window titled 'Possible Entries: Plants' is open, displaying a table of plant locations. The table has columns for 'Maint.', 'Plant', and 'Name 1'. The entry 'DC Miami' is highlighted. A red arrow points from the 'DC Miami' entry in the table to the '* Plant:' field in the background screen. Another red arrow points from the 'Choose' button at the bottom of the modal window to the text on the right.

Maint.	Plant	Name 1
X	DL00	Plant Dallas
X	HD00	Plant Heidelberg
X	HH00	DC Hamburg
X	MI00	DC Miami
X	SD00	DC San Diego

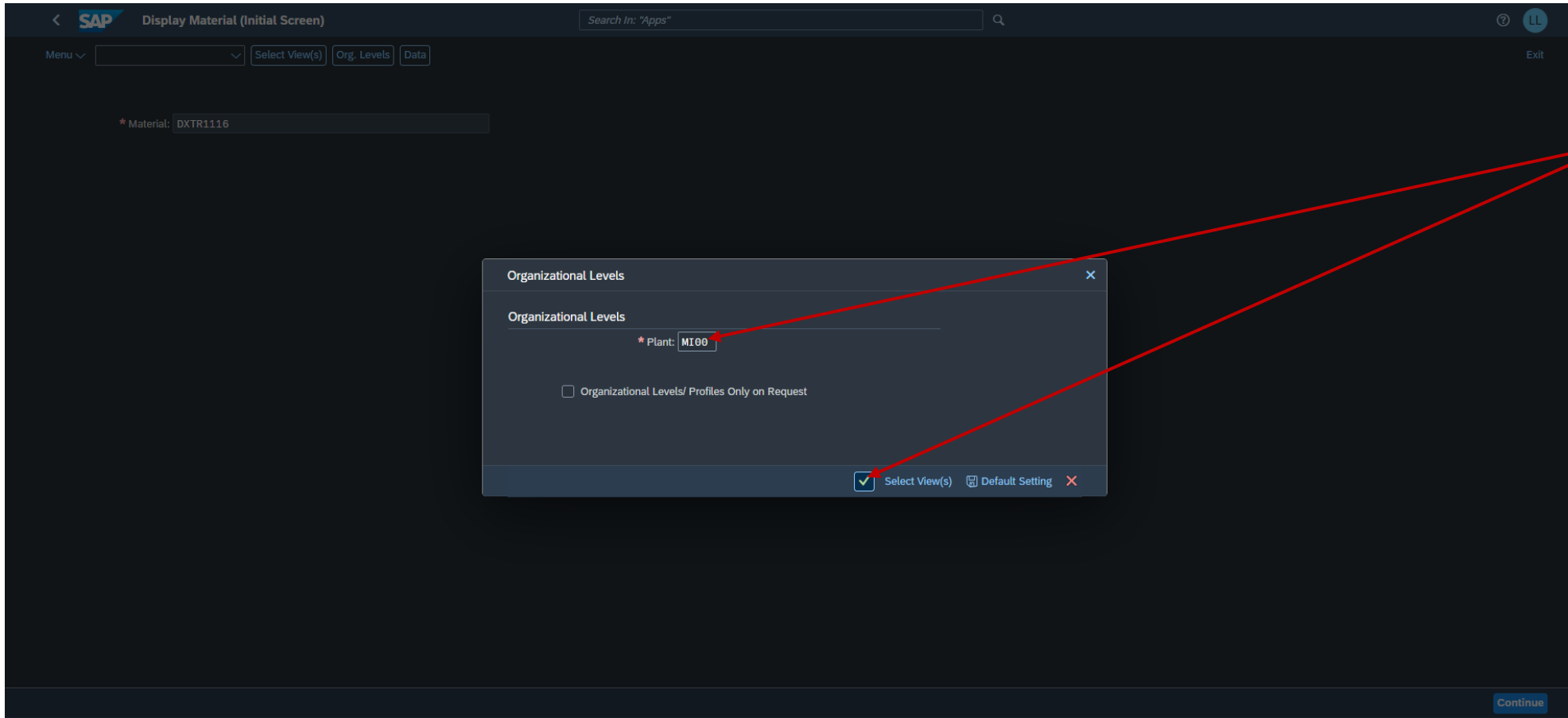
* Plant:

Choose Maintenance status Cancel

Use the Plant selection to view the options and then select **DC Miami** from the options and click choose.

Master Data Navigation (Contd)

- Location code is displayed, select to view the materials detail.



The screenshot shows the SAP 'Display Material (Initial Screen)' interface. At the top, there is a search bar with 'Search In: "Apps"' and a magnifying glass icon. Below the search bar, there are tabs for 'Menu', 'Select View(s)', 'Org. Levels', and 'Data'. The 'Material' field is populated with 'DXTR1116'. A modal window titled 'Organizational Levels' is open in the center. It contains a field for '* Plant:' with the value 'MI00'. Below this, there is a checkbox labeled 'Organizational Levels/ Profiles Only on Request'. At the bottom of the modal, there are three buttons: 'Select View(s)' (with a checkmark icon), 'Default Setting' (with a gear icon), and a close button (with an 'X' icon). A red arrow points from the text 'Location code is displayed. Click ✓ to proceed.' to the 'Select View(s)' button. Another red arrow points from the same text to the '* Plant:' field.

Location code is displayed. Click ✓ to proceed.

- Plant stock information is displayed.

< **SAP** Display Material DXTR1116 (Finished Product) Search In: "Apps" ? LL

Menu ▾ → Additional Data Org. Levels Services for Object ▾ Exit

< Plant data / stor. 1 Plant data / stor. 2 Warehouse Mgmt 1 Warehouse Mgmt 2 Accounting 1 Accounting 2 Costing 1 Costing 2 **Plant stock** Stor. loc. stk WM Execution WM Packaging Seg. Valuation Data ...

Material: DXTR1116 Descr.: Deluxe Touring Bike (black) Plant: MI00 DC Miami

General data

Base Unit of Measure: EA each
Current period: 04 2024 Previous period: 03 2024
Invent. corr. factor: 0.00000

Plant stocks in the current period

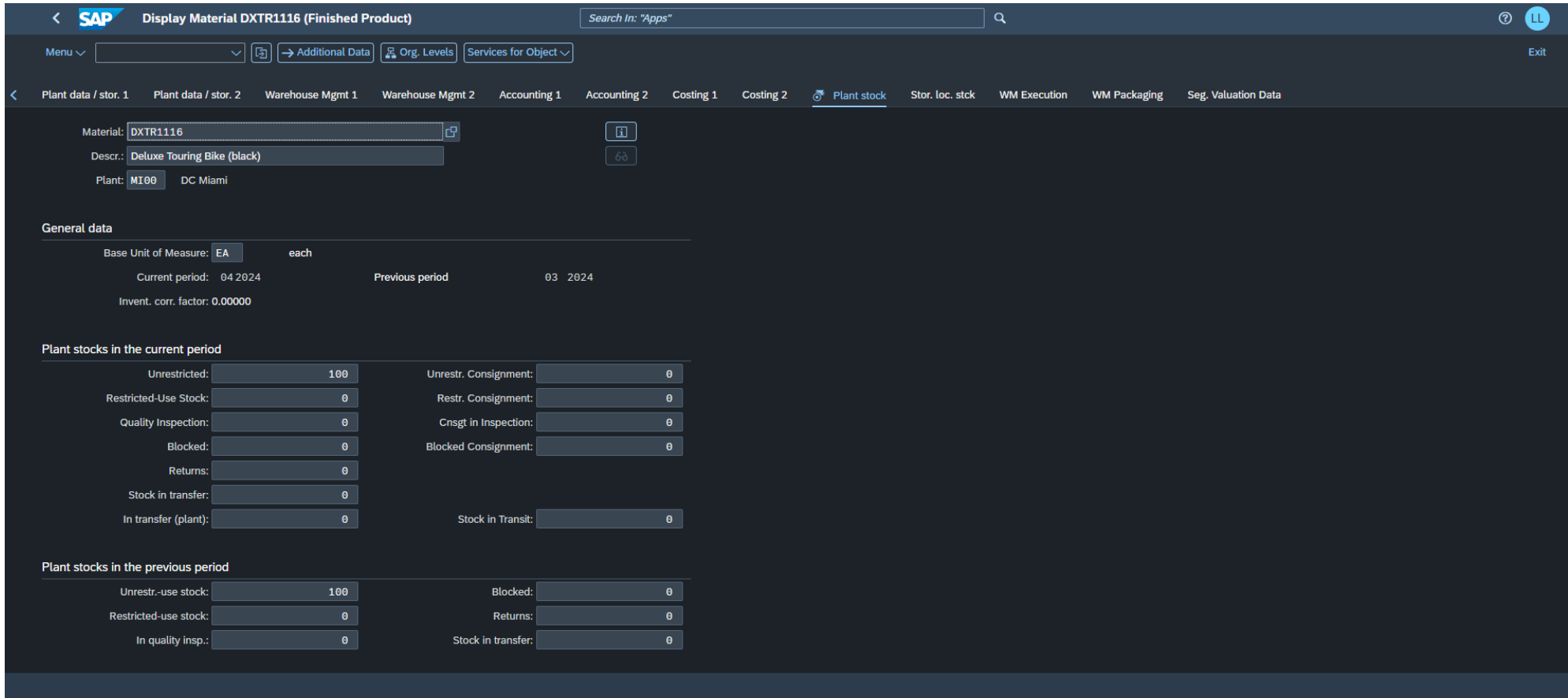
Unrestricted:	100	Unrestr. Consignment:	0
Restricted-Use Stock:	0	Restr. Consignment:	0
Quality Inspection:	0	Cnsgt in Inspection:	0
Blocked:	0	Blocked Consignment:	0
Returns:	0		
Stock in transfer:	0		
In transfer (plant):	0	Stock in Transit:	0

Plant stocks in the previous period

Unrestr.-use stock:	100	Blocked:	0
Restricted-use stock:	0	Returns:	0
In quality insp.:	0	Stock in transfer:	0

Master Data Navigation (Contd)

- We are interested to find the Price & Weight of the Deluxe Touring Bike



The screenshot shows the SAP S/4HANA Material Master for material DXTR1116 (Deluxe Touring Bike (black)). The 'Plant stock' tab is selected in the top navigation bar. The 'General data' section shows the base unit of measure as 'EA' (each). The 'Plant stocks in the current period' section shows a stock of 100 units. The 'Plant stocks in the previous period' section shows a stock of 100 units.

General data	
Base Unit of Measure:	EA each
Current period:	04 2024
Previous period:	03 2024
Invent. corr. factor:	0.00000

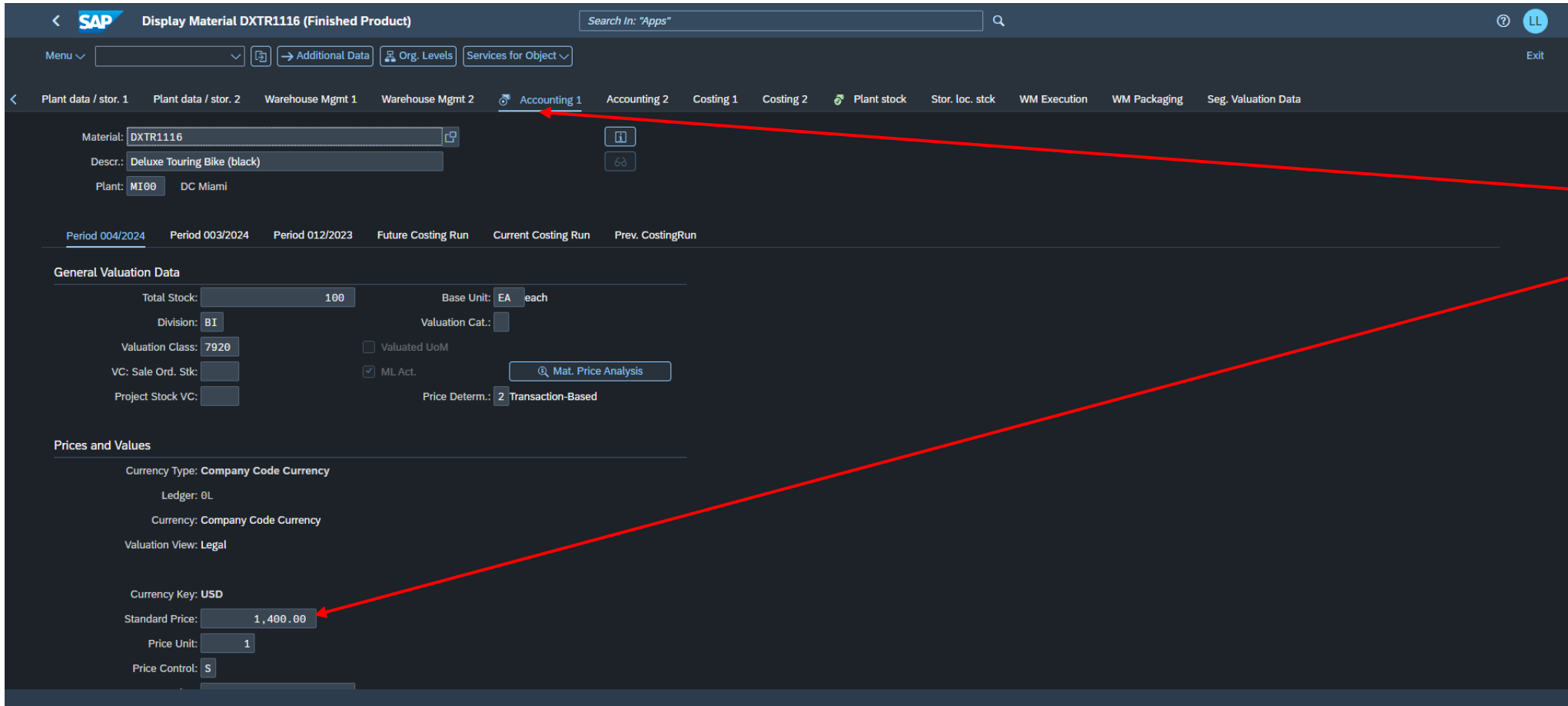
Plant stocks in the current period	
Unrestricted:	100
Restricted-Use Stock:	0
Quality Inspection:	0
Blocked:	0
Returns:	0
Stock in transfer:	0
In transfer (plant):	0
Unrestr. Consignment:	0
Restr. Consignment:	0
Cnsgt in Inspection:	0
Blocked Consignment:	0
Stock in Transit:	0

Plant stocks in the previous period	
Unrestr.-use stock:	100
Restricted-use stock:	0
In quality insp.:	0
Blocked:	0
Returns:	0
Stock in transfer:	0

Hints:
The **Price** is stored in the **Accounting 1** space.

The **Weight** is stored in the **Basic Data 1** space.

- Accounting 1 Space, for Price data



The screenshot displays the SAP 'Display Material' interface for material DXTR1116 (Deluxe Touring Bike (black)). The 'Accounting 1' tab is selected in the top navigation bar. The 'General Valuation Data' section shows the following fields:

Field	Value
Total Stock	100
Base Unit	EA each
Division	BI
Valuation Class	7920
VC: Sale Ord. Stk	
Project Stock VC	
Valuation Cat.	
Valuated UoM	<input type="checkbox"/>
ML Act.	<input checked="" type="checkbox"/>
Price Determ.	2 Transaction-Based

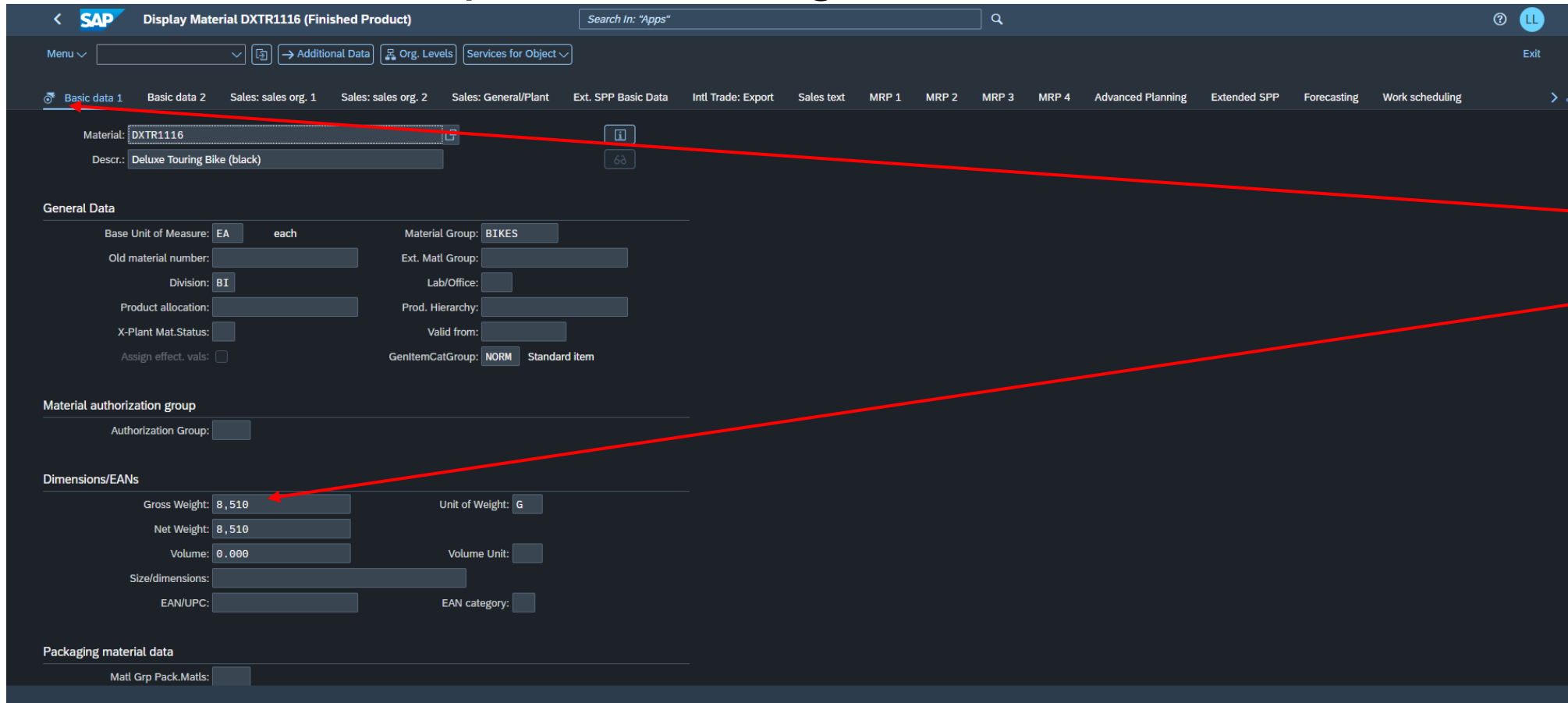
The 'Prices and Values' section shows the following fields:

Field	Value
Currency Type	Company Code Currency
Ledger	0L
Currency	Company Code Currency
Valuation View	Legal
Currency Key	USD
Standard Price	1,400.00
Price Unit	1
Price Control	S

Red arrows point from the 'Accounting 1' tab and the 'Standard Price' field to the text 'Accounting 1 space and Price Data'.

Accounting
1 space and
Price Data

■ Basic Data 1 Space, for Weight data



Display Material DXTR1116 (Finished Product) Search In: "Apps"

Menu ▾ ▢ → Additional Data ▢ Org. Levels ▢ Services for Object ▾ Exit

Basic data 1 Basic data 2 Sales: sales org. 1 Sales: sales org. 2 Sales: General/Plant Ext. SPP Basic Data Intl Trade: Export Sales text MRP 1 MRP 2 MRP 3 MRP 4 Advanced Planning Extended SPP Forecasting Work scheduling > ...

Material: DXTR1116 Descr.: Deluxe Touring Bike (black)

General Data

Base Unit of Measure: EA each	Material Group: BIKES
Old material number:	Ext. Matl Group:
Division: B1	Lab/Office:
Product allocation:	Prod. Hierarchy:
X-Plant Mat. Status:	Valid from:
Assign effect. vals: <input type="checkbox"/>	GenItemCatGroup: NORM Standard Item

Material authorization group

Authorization Group:

Dimensions/EANs

Gross Weight: 8,510	Unit of Weight: G
Net Weight: 8,510	
Volume: 0.000	Volume Unit:
Size/dimensions:	
EAN/UPC:	EAN category:

Packaging material data

Matl Grp Pack.Matls:

Basic Data
1 space and
Weight data

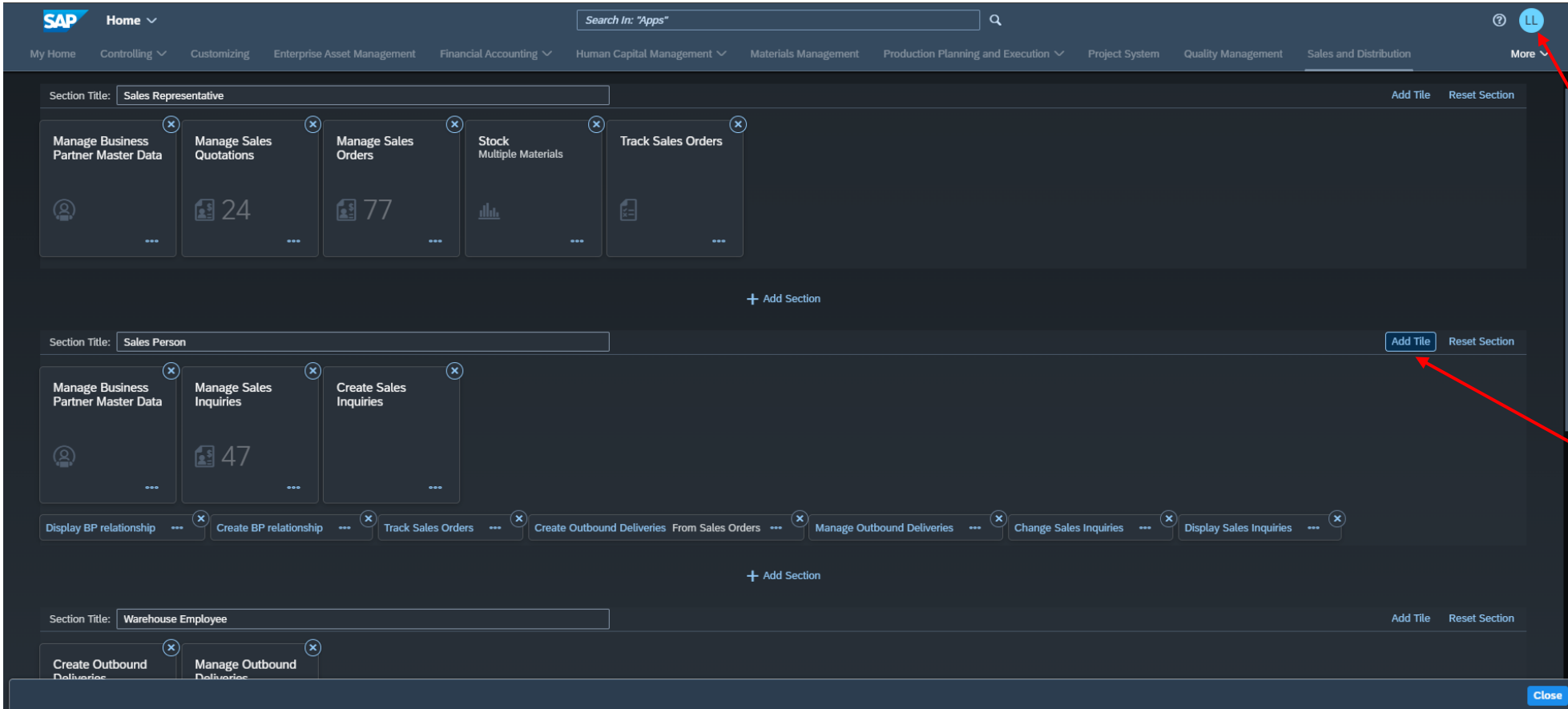


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Understanding Reports in SAP S/4HANA

SAP S/4HANA Reports

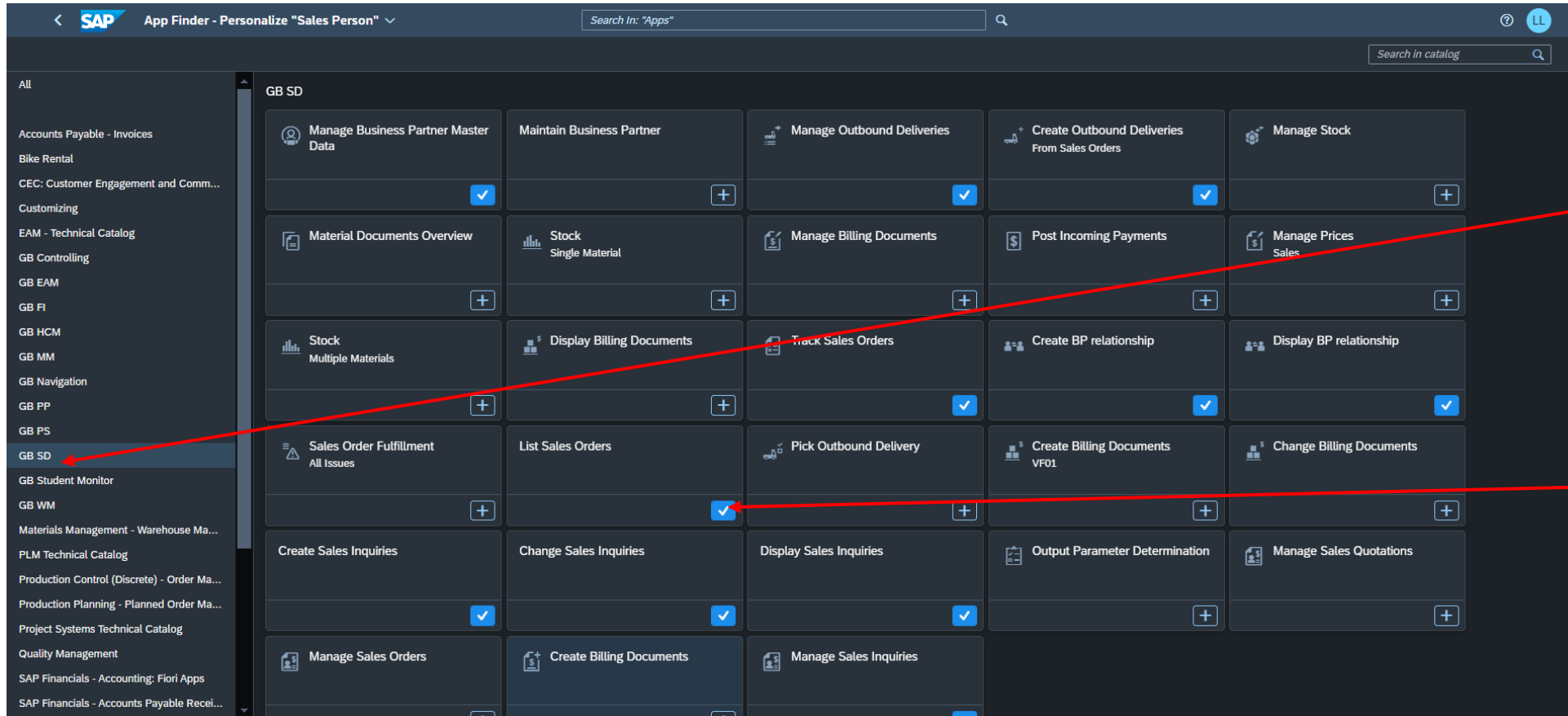
- The List Sales Order app is not included by default. Add it to the Salesperson Role in the Sales & Distribution Space.



To add the List Sales Order app Click **LL** the profile and select **Edit Current Page**. In the Sales Person role, click on add Tile.

SAP S/4HANA Reports

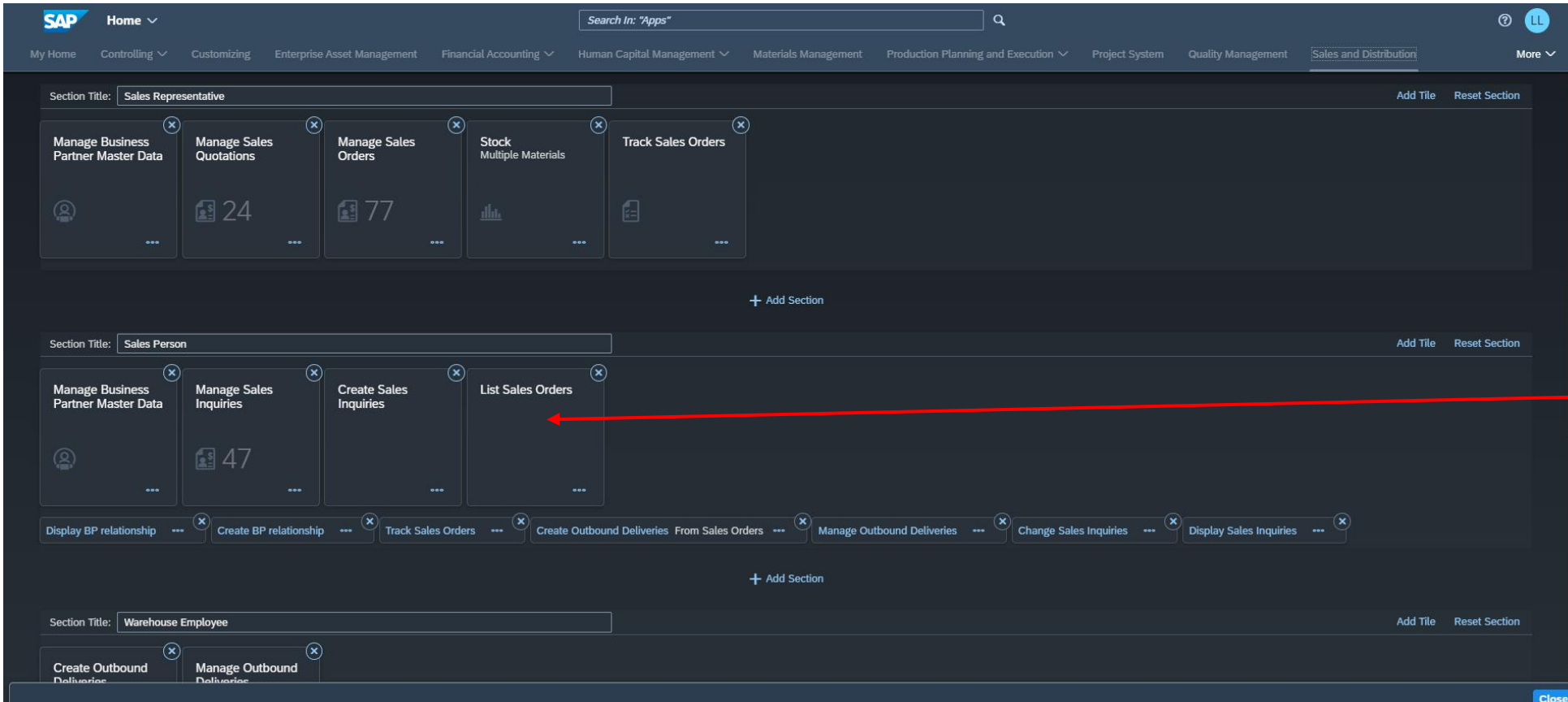
- Add the List Sales Order App to the SAP Sales and Distribution Space.



Select the **GB SD** (Global Bikes Sales & Distribution) from the left pane and click on the **+** for List Sales Order app. Notice **+** changes to **✓**.

Return to the **Sales and Distribution Space**.

- The List Sales Order app is now included in the Salesperson Role in the Sales & Distribution Space.



The screenshot displays the SAP Fiori Launchpad interface for the 'Sales and Distribution' space. The top navigation bar includes the SAP logo, a 'Home' dropdown, a search bar labeled 'Search in: "Apps"', and various system navigation links. The main content area is divided into three sections based on user roles:

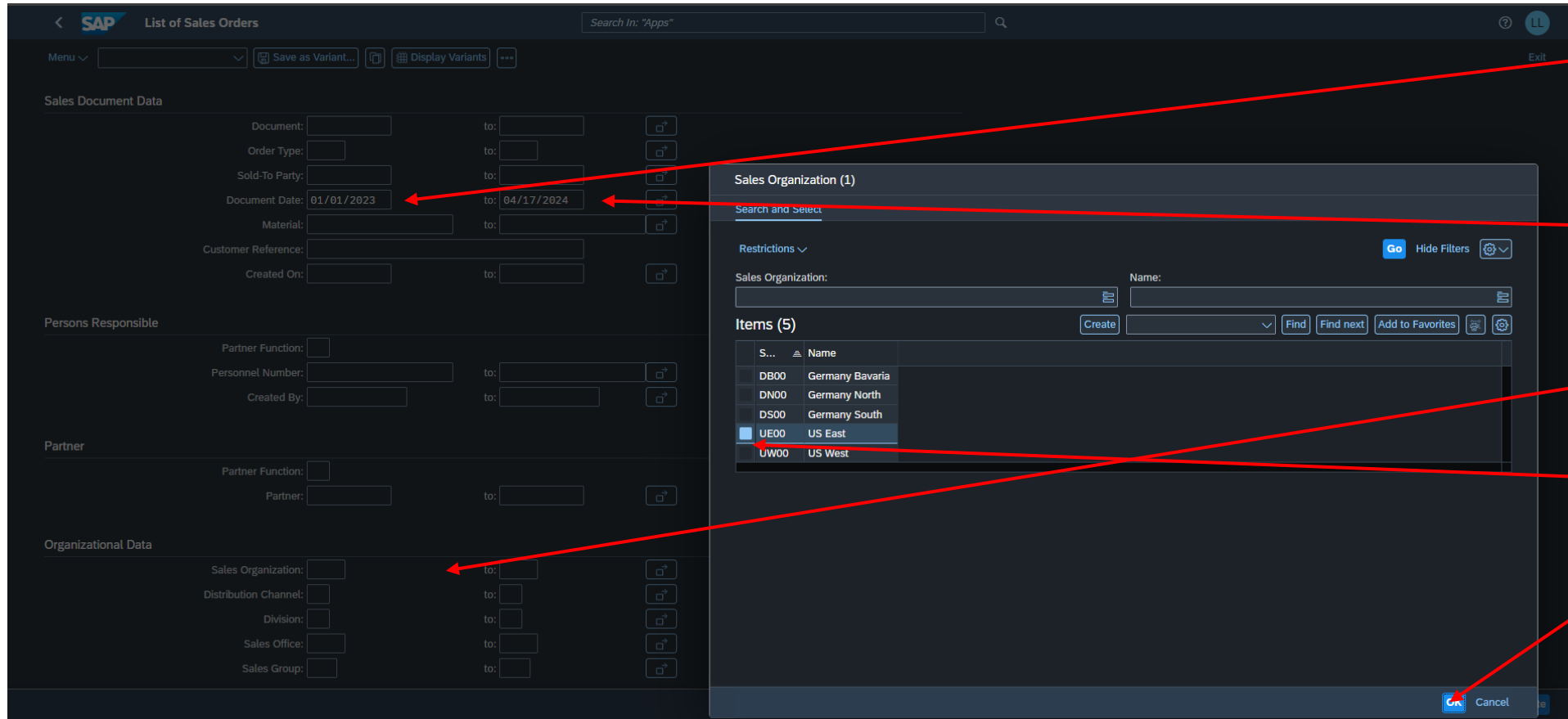
- Sales Representative:** Contains tiles for 'Manage Business Partner Master Data', 'Manage Sales Quotations' (with a count of 24), 'Manage Sales Orders' (with a count of 77), 'Stock Multiple Materials', and 'Track Sales Orders'.
- Sales Person:** Contains tiles for 'Manage Business Partner Master Data', 'Manage Sales Inquiries' (with a count of 47), 'Create Sales Inquiries', and 'List Sales Orders'. A red arrow points to the 'List Sales Orders' tile. Below these tiles is a row of smaller tiles: 'Display BP relationship', 'Create BP relationship', 'Track Sales Orders', 'Create Outbound Deliveries From Sales Orders', 'Manage Outbound Deliveries', 'Change Sales Inquiries', and 'Display Sales Inquiries'.
- Warehouse Employee:** Contains tiles for 'Create Outbound Deliveries' and 'Manage Outbound Deliveries'.

Each section has a 'Section Title' input field, 'Add Title', and 'Reset Section' buttons. A '+ Add Section' button is located between the 'Sales Representative' and 'Sales Person' sections. A 'Close' button is at the bottom right of the interface.

The List Sales Order App is added in the Sales Person Role

SAP S/4HANA Reports

- We need to run a report for all sales from “1/1/2023” till today for the Eastern United States (UE00).



SAP List of Sales Orders

Search In: "Apps"

Menu ▾ Save as Variant... Display Variants

Sales Document Data

Document: to:

Order Type: to:

Sold-To Party: to:

Document Date: 01/01/2023 to: 04/17/2024

Material: to:

Customer Reference: to:

Created On: to:

Persons Responsible

Partner Function:

Personnel Number: to:

Created By: to:

Partner

Partner Function:

Partner: to:

Organizational Data

Sales Organization: to:

Distribution Channel: to:

Division: to:

Sales Office: to:

Sales Group: to:

Sales Organization (1)

Search and Select

Restrictions ▾ Go Hide Filters

Sales Organization: Name:

Items (5)

S...	Name
DB00	Germany Bavaria
DN00	Germany North
DS00	Germany South
UE00	US East
UW00	US West

Go Cancel

Enter
“1/1/2023” in
the Document
Date field.

Enter **Current
date** in Date to
field.

Select **UE00**
from the Sales
Organisation
field.

Select **Ok**.
Press **Execute**
on the next
screen.

- The Sales Order report is displayed.

< **SAP** List of Sales Orders (84 Entries) Search In: "Apps" ? LL

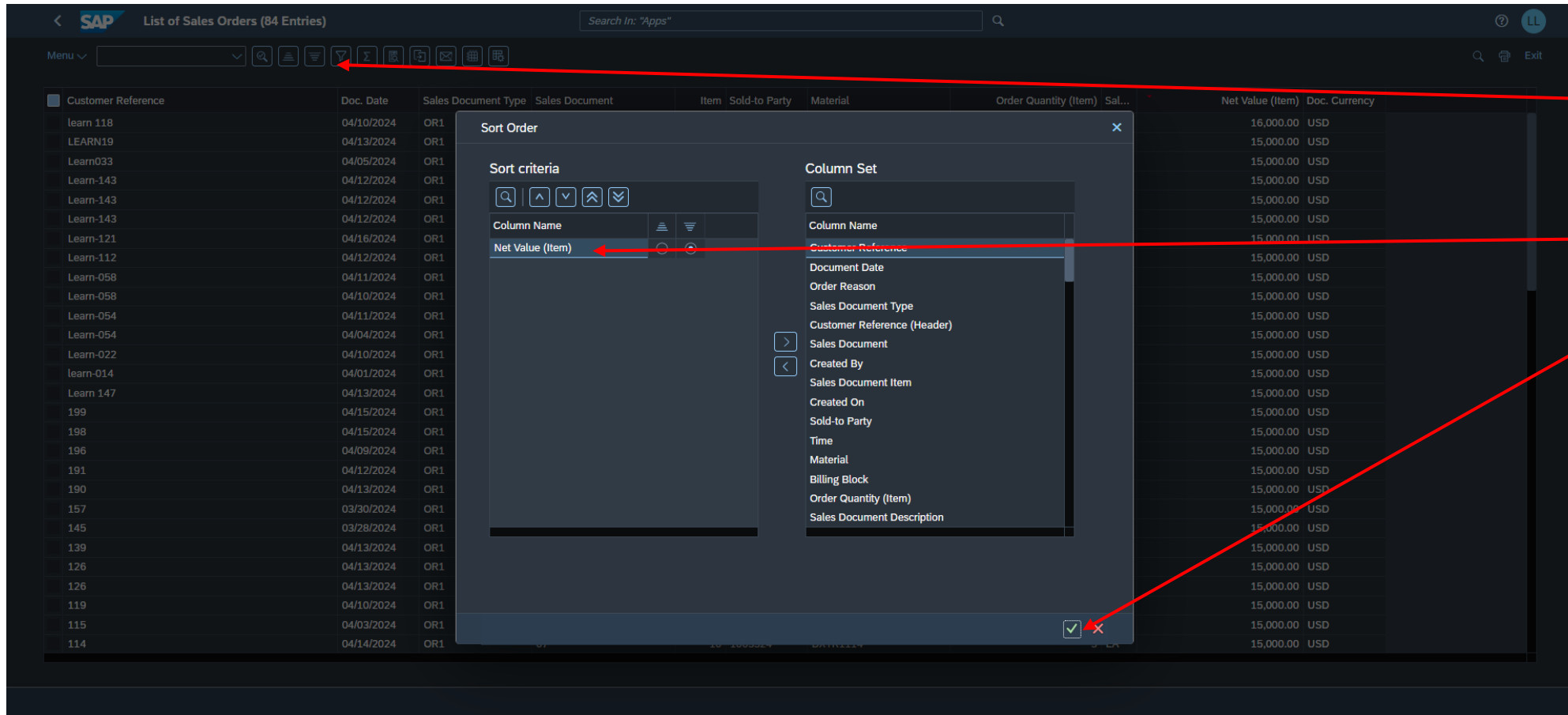
Menu ▾ 🔍 📄 📊 📉 📈 📧 📁 📅 📆

🔍 📄 Exit

Customer Reference	Doc. Date	Sales Document Type	Sales Document	Item	Sold-to Party	Material	Order Quantity (Item)	Sal...	Net Value (Item)	Doc. Currency
BFK001	03/28/2024	OR	5100000		1003076				0.00	USD
041	03/28/2024	OR	5000001	20	1003071	DXTR1114	5	EA	15,000.00	USD
594	04/17/2024	OR1	75	10	1003347	DXTR1594	4	EA	12,000.00	USD
548	04/16/2024	OR1	74	10	1003348	DXTR1114	4	EA	12,000.00	USD
582	04/16/2024	OR1	73	10	1003343	DXTR1582	4	EA	12,000.00	USD
594	04/16/2024	OR1	72	10	1003347	DXTR1594	4	EA	12,000.00	USD
548	04/16/2024	OR1	71		1003338				0.00	USD
Learn-121	04/16/2024	OR1	70	10	1003342	DXTR1960	5	EA	15,000.00	USD
198	04/15/2024	OR1	69	10	1003337	DXTR1960	5	EA	15,000.00	USD
198	04/15/2024	OR1	69	20	1003337	DXTR2989	2	EA	6,000.00	USD
199	04/15/2024	OR1	68	10	1003334	DXTR1199	5	EA	15,000.00	USD
114	04/14/2024	OR1	67	10	1003324	DXTR1114	5	EA	15,000.00	USD
110	04/14/2024	OR1	66		1003271				0.00	USD
186	04/14/2024	OR	65	20	1003283	PRTR1186	2	EA	6,400.00	USD
186	04/14/2024	OR	65	10	1003283	DXTR1186	5	EA	14,012.50	USD
274	04/14/2024	OR1	64	10	1003285	DXTR1274	4	EA	12,000.00	USD
###	04/13/2024	OR1	63	10	1003271	DXTR1000	5	EA	15,000.00	USD
###	04/13/2024	OR1	63	20	1003271	PRTR1000	2	EA	6,400.00	USD
###	04/13/2024	OR1	62		1003271				0.00	USD
###	04/13/2024	OR1	61		1003271				0.00	USD
190	04/13/2024	OR1	60	10	1003267	DXTR1126	5	EA	15,000.00	USD
126	04/13/2024	OR1	59	10	1003262	DXTR1118	5	EA	15,000.00	USD
126	04/13/2024	OR1	58	10	1003262	DXTR1501	5	EA	15,000.00	USD
126	04/13/2024	OR	57		1003262				0.00	USD
126	04/13/2024	OR	56		1003262				0.00	USD
019	04/13/2024	OR1	55	10	1003246	DXTR1000	5	EA	15,000.00	USD
Learn 147	04/13/2024	OR1	54	10	1003193	DXTR1006	5	EA	15,000.00	USD
139	04/13/2024	OR1	53	10	1003249	DXTR1139	5	EA	15,000.00	USD

SAP S/4HANA Reports

- To make the report meaningful, we can sort on Net Value of the Order.



The screenshot shows the 'List of Sales Orders (84 Entries)' report in SAP S/4HANA. A 'Sort Order' dialog box is open, allowing users to select sorting criteria. The 'Column Name' list on the left includes 'Net Value (Item)', which is highlighted. The 'Column Set' list on the right includes various fields like 'Customer Reference', 'Document Date', 'Order Reason', etc. A red arrow points from the 'Sort' button in the report header to the dialog box. Another red arrow points from the 'Net Value (Item)' option in the 'Column Name' list to the 'Sort' button. A third red arrow points from the 'Select' checkbox in the bottom right of the dialog box to the 'Select' text in the annotation.

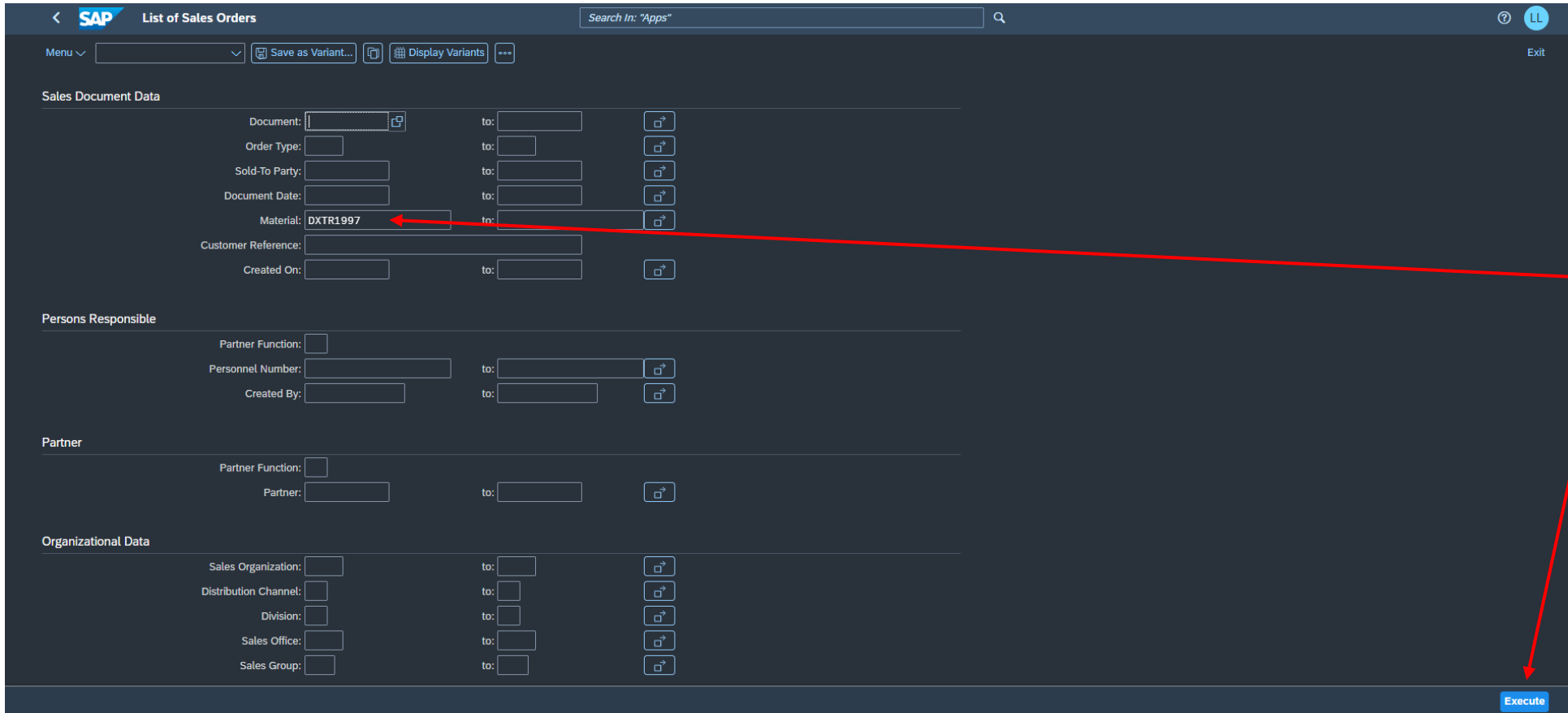
Customer Reference	Doc. Date	Sales Document Type	Sales Document	Item	Sold-to Party	Material	Order Quantity (Item)	Sal...	Net Value (Item)	Doc. Currency
learn 118	04/10/2024	OR1							16,000.00	USD
LEARN19	04/13/2024	OR1							15,000.00	USD
Learn033	04/05/2024	OR1							15,000.00	USD
Learn-143	04/12/2024	OR1							15,000.00	USD
Learn-143	04/12/2024	OR1							15,000.00	USD
Learn-143	04/12/2024	OR1							15,000.00	USD
Learn-121	04/16/2024	OR1							15,000.00	USD
Learn-112	04/12/2024	OR1							15,000.00	USD
Learn-058	04/11/2024	OR1							15,000.00	USD
Learn-058	04/10/2024	OR1							15,000.00	USD
Learn-054	04/11/2024	OR1							15,000.00	USD
Learn-054	04/04/2024	OR1							15,000.00	USD
Learn-022	04/10/2024	OR1							15,000.00	USD
learn-014	04/01/2024	OR1							15,000.00	USD
Learn 147	04/13/2024	OR1							15,000.00	USD
199	04/15/2024	OR1							15,000.00	USD
198	04/15/2024	OR1							15,000.00	USD
196	04/09/2024	OR1							15,000.00	USD
191	04/12/2024	OR1							15,000.00	USD
190	04/13/2024	OR1							15,000.00	USD
157	03/30/2024	OR1							15,000.00	USD
145	03/28/2024	OR1							15,000.00	USD
139	04/13/2024	OR1							15,000.00	USD
126	04/13/2024	OR1							15,000.00	USD
126	04/13/2024	OR1							15,000.00	USD
119	04/10/2024	OR1							15,000.00	USD
115	04/03/2024	OR1							15,000.00	USD
114	04/14/2024	OR1							15,000.00	USD

Click on **Sort**.
From the
sorting criteria,
select **Net
Value**.
Select ☒

- The Sorted Sales Order report is displayed.

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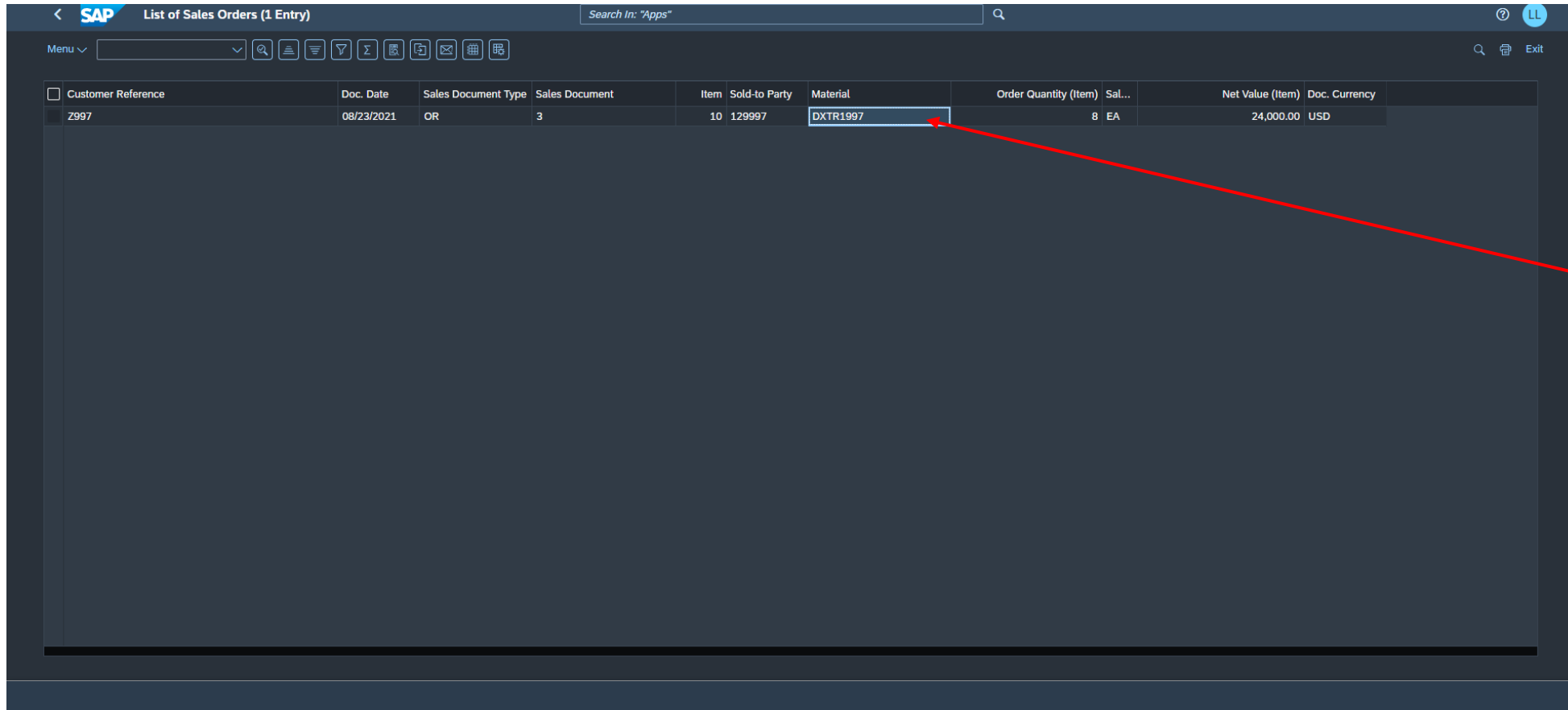
- Drilling Down – Data Analysis
- Determine the weight of materials in a particular order.



The screenshot shows the 'List of Sales Orders' report selection screen in SAP S/4HANA. The interface is in dark theme. The top bar includes the SAP logo, the title 'List of Sales Orders', a search bar with 'Search In: "Apps"', and user information. Below the top bar, there are buttons for 'Menu', 'Save as Variant...', 'Display Variants', and 'Exit'. The main area is divided into sections: 'Sales Document Data', 'Persons Responsible', 'Partner', and 'Organizational Data'. Each section contains input fields for various criteria. In the 'Sales Document Data' section, the 'Material' field is populated with 'DCTR1997'. A red arrow points from this field to the 'Execute' button at the bottom right of the screen.

Click on the **List Sales Order** to initiate a new report. Type **DCTR1997** in the Material field. Press **Execute**.

- The Sales Order report is displayed.



The screenshot shows the SAP S/4HANA 'List of Sales Orders (1 Entry)' report. The table displays one entry with the following data:

Customer Reference	Doc. Date	Sales Document Type	Sales Document	Item	Sold-to Party	Material	Order Quantity (Item)	Sal...	Net Value (Item)	Doc. Currency
Z997	08/23/2021	OR	3	10	129997	DXTR1997	8 EA		24,000.00	USD

A red arrow points from the text on the right to the 'DXTR1997' material field in the table.

To Drill Down for more details, double click on **DXTR1997** in the materials field.

- The **Net Weight** of the Order Items is Displayed.

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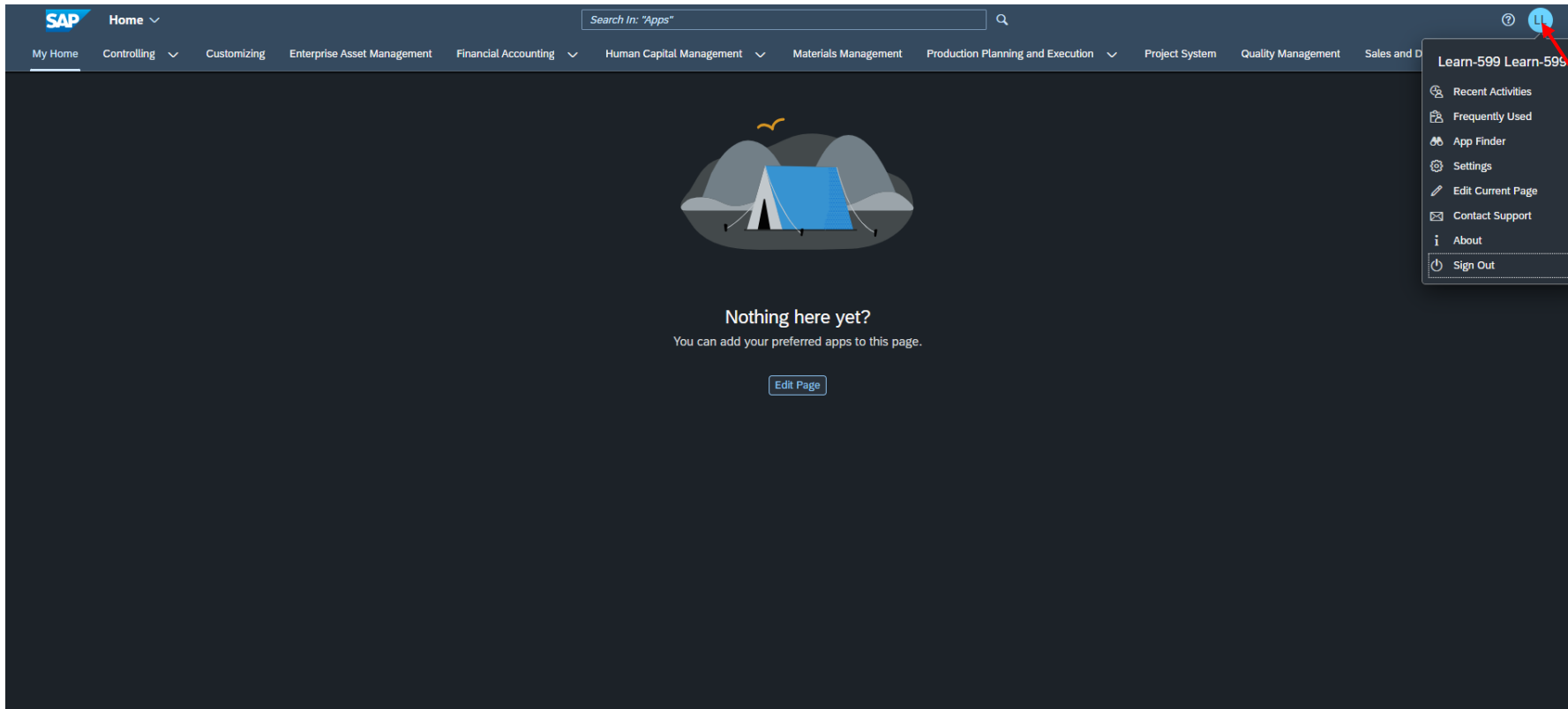


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Logging Off

Logging Off

- Always Log off to protect the data and to avoid unauthorised use.



To Log Off, Click on **LL** Profile and select Sign Out, and press **OK**.



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End of Workshop 1 **Week 2 & 3**