

Quality Information Reports

Course Objectives

□ **At the conclusion of this course**

- ❖ **You will be able to recognize some standard reports available through quality management information system (QMIS)**
- ❖ **Be able to produce customized reports using the drill down functionality in QMIS**
- ❖ **Be able to display your report as a graphic**
- ❖ **Be able to save your data as a spreadsheet for merging into a report for example**

The QM Process Overview

Quality Planning

- ✓ Basic data - building blocks
- ✓ Material master
- ✓ Vendor Master
- ✓ Inspection plans
- ✓ Material plan assignment

Quality Inspection

- ✓ Inspection lot creation
- ✓ Results recording
- ✓ Defects recording

Usage Decision

- ✓ Accept or Reject decision
- ✓ Stock postings
- ✓ Activate Notifications

Quality Notification

- ✓ Notification created
- ✓ Defects
- ✓ Tasks
- ✓ Activities

Reporting & analysis

- ✓ SAP reports

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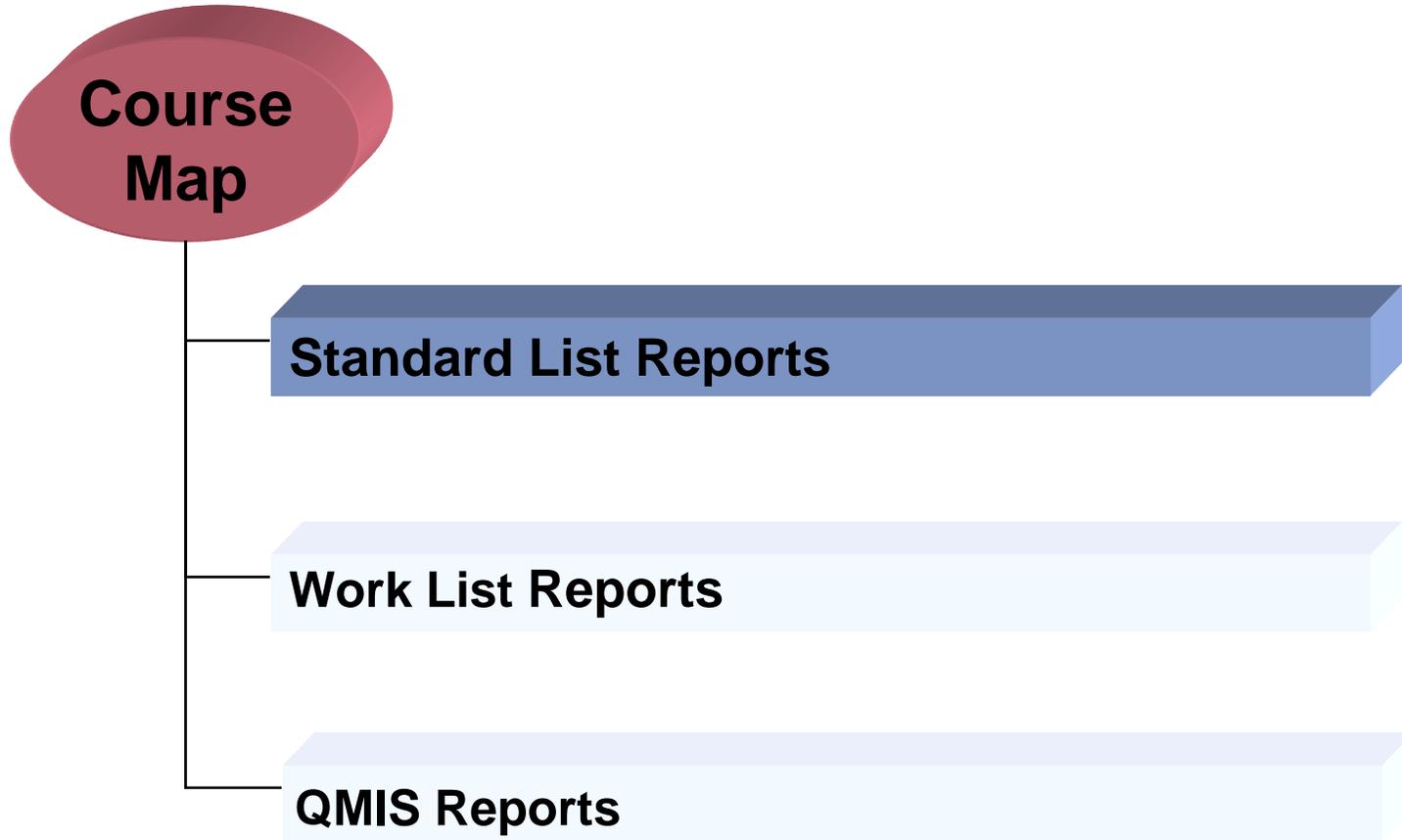
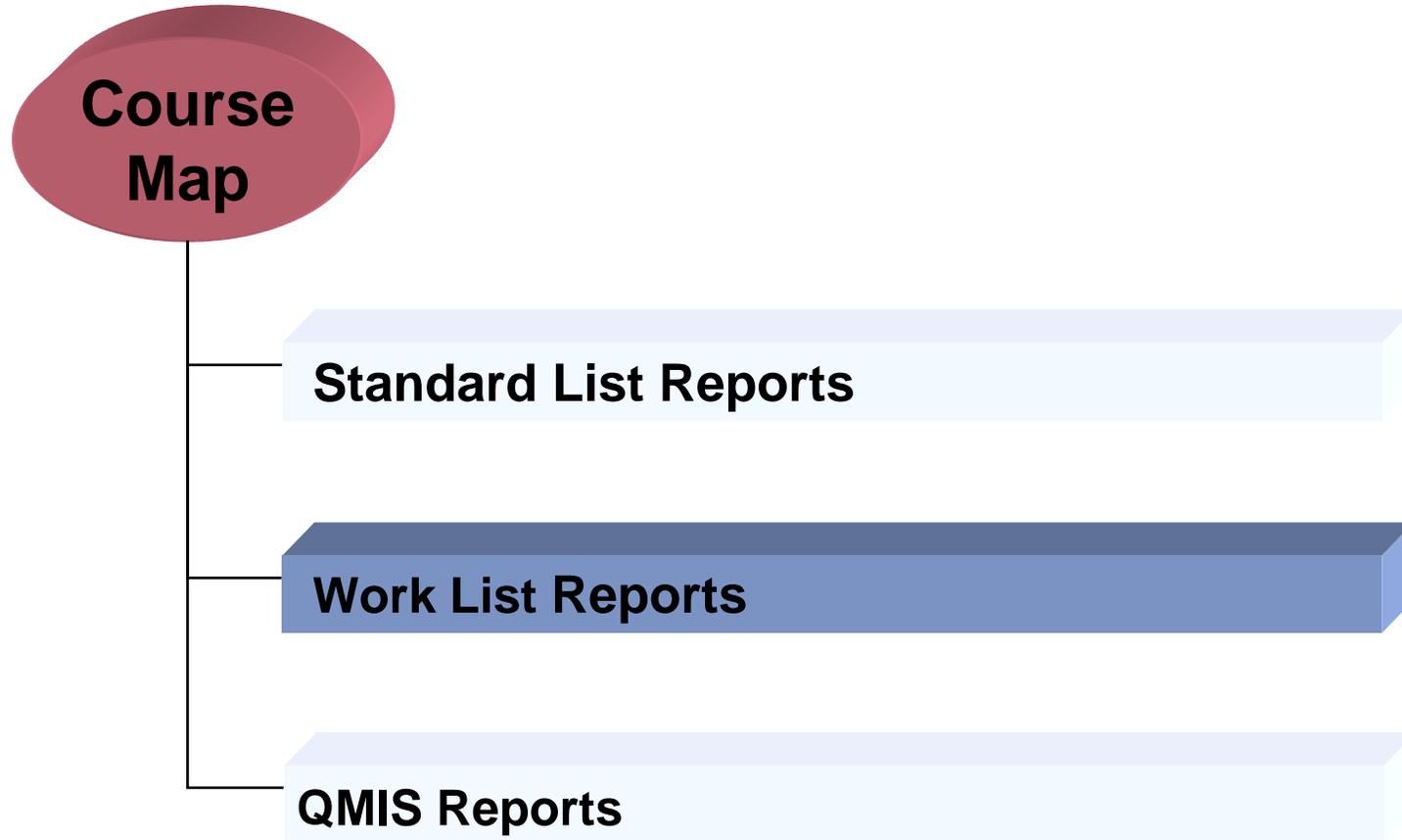


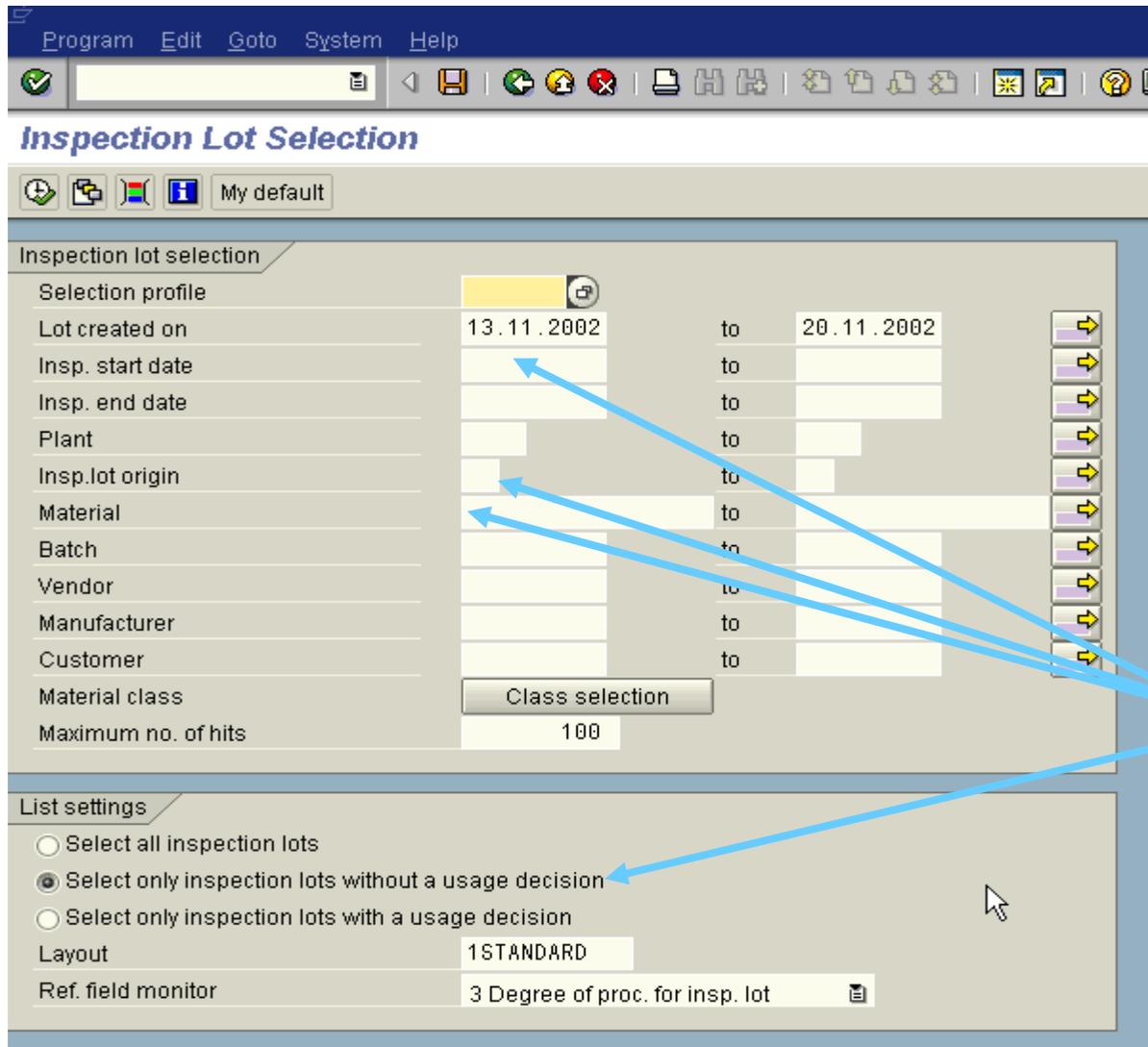
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Work list Reports

- ❑ **Work list reports extract operational data/documents from the databases**
- ❑ **Selection parameters are used to specify which documents are to be reported on**
- ❑ **End-users can create their own selection variant**
- ❑ **End-users can create their own report layouts**
- ❑ **For some reports, the “scope of list” parameter offers the possibility to select between multiple report layouts**
- ❑ **Reported data can be downloaded, e.g. to Excel files**
- ❑ **Operational list reports - standard SAP reports like:**
 - ❖ **Change data for inspection lot QA32**
 - ❖ **Change data for quality notifications QM10**

Work List



The screenshot shows the 'Inspection Lot Selection' dialog box in SAP. The window title is 'Inspection Lot Selection'. The menu bar includes 'Program', 'Edit', 'Goto', 'System', and 'Help'. The toolbar contains various icons for navigation and actions. The main area is divided into two sections: 'Inspection lot selection' and 'List settings'.

Inspection lot selection

Selection profile			
Lot created on	13.11.2002	to	20.11.2002
Insp. start date		to	
Insp. end date		to	
Plant		to	
Insp.lot origin		to	
Material		to	
Batch		to	
Vendor		to	
Manufacturer		to	
Customer		to	
Material class	Class selection		
Maximum no. of hits	100		

List settings

- Select all inspection lots
- Select only inspection lots without a usage decision
- Select only inspection lots with a usage decision

Layout: 1STANDARD

Ref. field monitor: 3 Degree of proc. for insp. lot

**SELECTION
CRITERIA**

Sorting a List

List Edit Goto Notification Environment Settings System Help

Change list of quality notifications: List of Notifications

Exce...	S	Notifctn	Req.start	Des.End	Status	Text	Descrptn
●●●		200000271	26.08.2002	28.08.2002	NOCO NOTE ATCO	2-High	Quantity of material lost
●●●		200000272	27.08.2002	28.08.2002	NOCO NOTE ATCO	2-High	Quantity of material lost
●●●		200000273	26.08.2002	28.08.2002	NOCO NOTE ATCO	2-High	Quantity of material lost
		200000281			OSNO		
●●●		200000282	03.09.2002	04.09.2002	OSNO OC	1-Very high	out of specification
●●●		200000283	08.09.2002		OSNO NOTI		
●●●		200000284	08.09.2002	10.09.2002	NOPR NOTE ATCO	2-High	Material is out of specification
●●●		200000285	09.09.2002		OSNO NOTI ATCO		
●●●		200000286	14.09.2002	15.09.2002	NOPR	3-Medium	Material is out of specification
		200000291			OSNO		
●●●		200000301	21.09.2002		OSNO NOTI		
●●●		200000302	22.09.2002		OSNO NOTI		
●●●		200000303	25.09.2002		OSNO NOTI		
●●●		200000311	30.09.2002	02.10.2002	OSNO NOTI OSTB	2-High	SDasdaSD

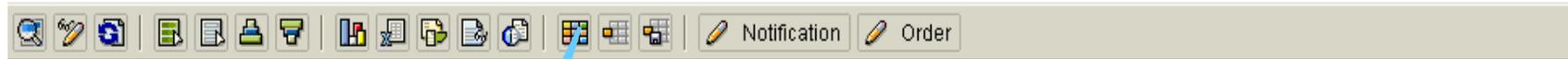
 **Sort Ascending**

 **Sort Descending**

Change layout



Change list of quality notifications: List of Notifications

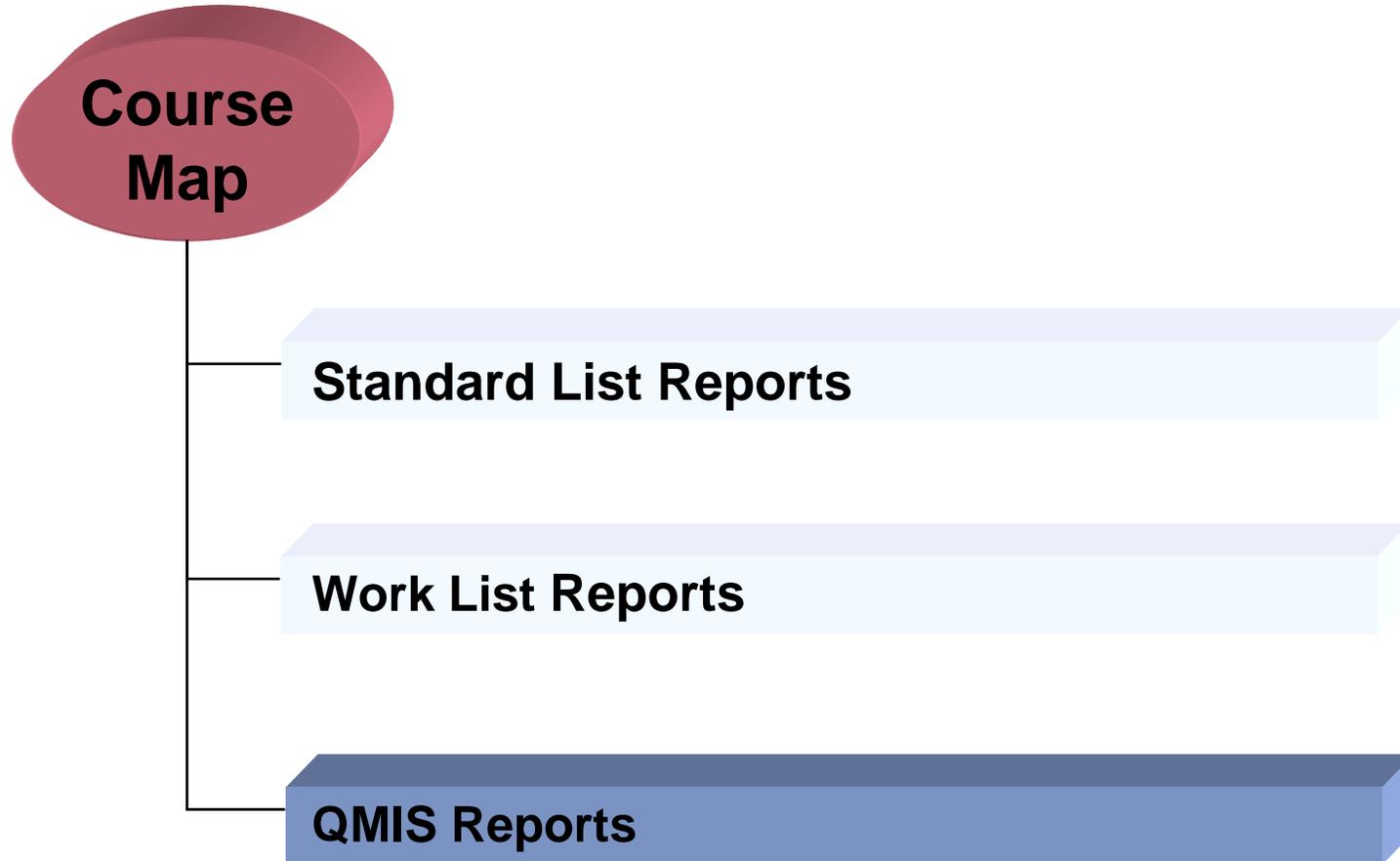


Exce...	S	Notifctn	Req.start	Des.End	Status
●●●		200000271	26.08.2002	28.08.2002	NOCO NOTE
●●●		200000272	26.08.2002	28.08.2002	NOCO NOTE
●●●		200000273	26.08.2002	28.08.2002	NOCO NOTE
		200000281			OSNO
●●●		200000282	03.09.2002	04.09.2002	OSNO OST
●●●		200000283	08.09.2002		OSNO NOTI
●●●		200000284	08.09.2002		NOPR NOTE
●●●		200000285	09.09.2002		OSNO NOTI
●●●		200000286	14.09.2002		NOPR
		200000291			OSNO
●●●		200000301	21.09.2002		OSNO NOTI
●●●		200000302	22.09.2002		OSNO NOTI
●●●		200000303	25.09.2002		OSNO NOTI
●●●		200000311	30.09.2002	02.10.2002	OSNO NOTI

The 'Change layout' dialog box is open, showing two columns: 'Columns' and 'Column set'. The 'Columns' list includes 'Selected line', 'Notification', 'Required start date', 'Required end', 'Status', 'Priority text', 'Description', 'Material', 'Customer', and 'Vendor'. The 'Column set' list includes 'Client', 'Notification type', 'Priority type', 'Priority', 'Created by', 'Created on', 'Changed by', 'Changed on', 'Notification time', and 'Notification date'. The 'Display' tab is selected, and a mouse cursor is pointing at the 'Display' tab. The dialog has a toolbar with icons for home, up, down, and refresh, and a 'Column set' toolbar with a home icon and a 'All' button. The bottom of the dialog has a toolbar with a checkmark, a save icon, and a close icon.

 **Change layout**

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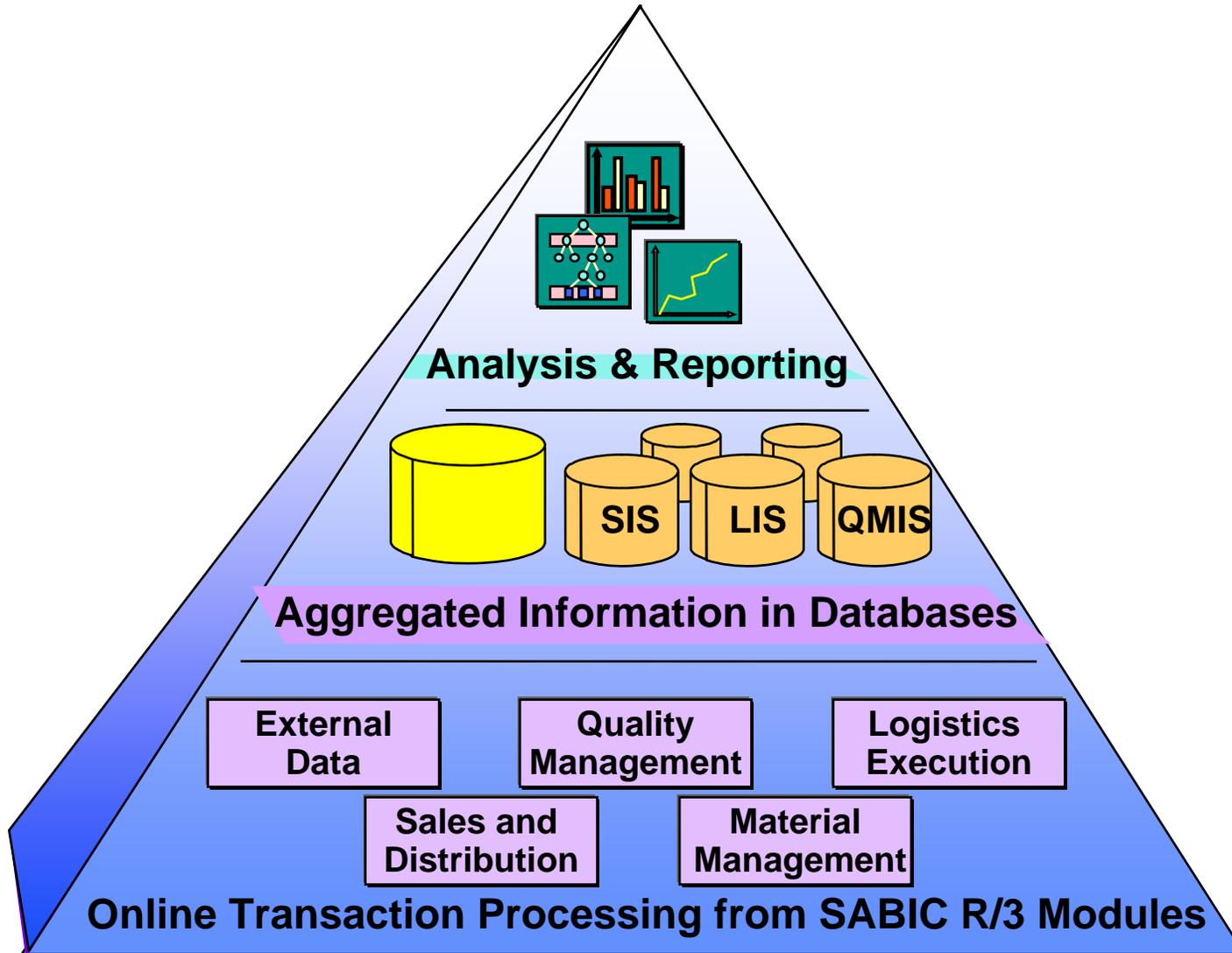


Logistics Information System Components

- ❑ **SAP Logistics offers a range of application-related information systems:**
 - ❖ **SIS** **Sales Information System**
 - ❖ **PURCHIS** **Purchasing Information System**
 - ❖ **INVCO** **Inventory Controlling**
 - ❖ **WMIS** **Warehouse Management Information System**
 - ❖ **PPIS** **Shop Floor Information System**
 - ❖ **QMIS** **Quality Management Information System**
 - ❖ **PMIS** **Plant Maintenance Information System**
 - ❖ **RIS** **Retail Information System**

- ❑ **All those information systems have a standard interface and similar basic functionality**

Information Systems



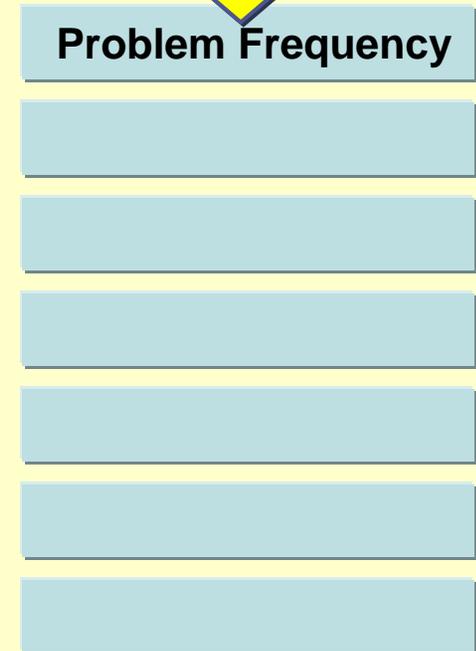
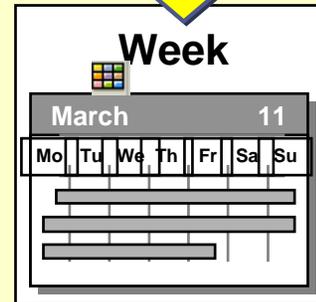
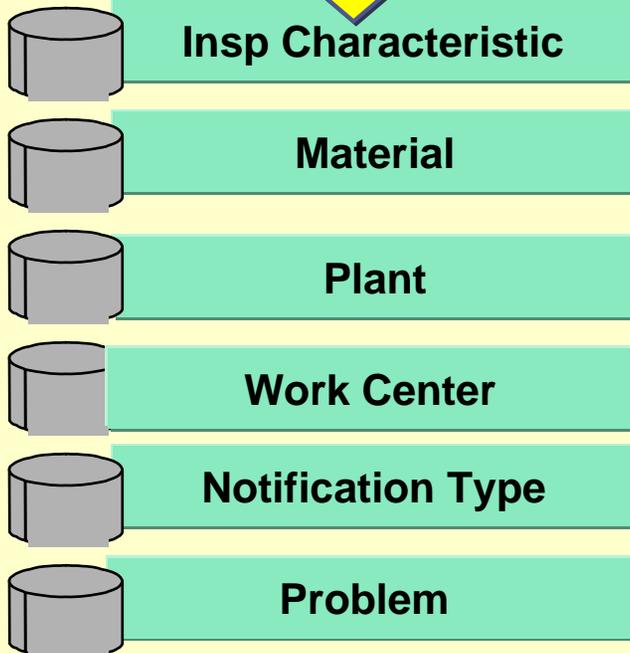
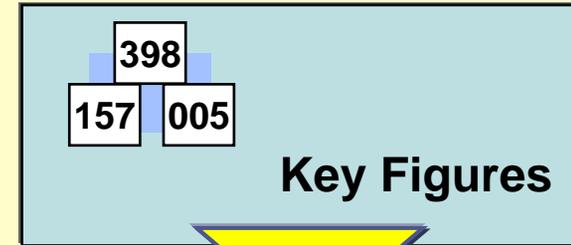
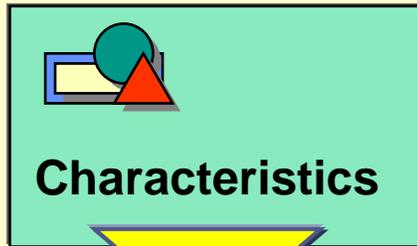
Data Aggregation and Reporting

- ❑ **When posting a document, the system updates automatically the key-figures of the information structures for the relevant characteristic combinations.**
- ❑ **QMIS reports extract the reported data from the info structures.**
- ❑ **Consequently, QMIS can provide in a fast way statistical information.**
- ❑ **Statistical information for example:**
 - ❖ **Material notification overview**
 - ❖ **Material by defects**
 - ❖ **Defects by customer**
 - ❖ **Etc.**

QMIS: Information Structures

- ❑ In QMIS **statistical data** is stored in information structures.
- ❑ Each info structure contains:
 - ❖ **Characteristics**: objects to be analyzed - for which statistical information has to be stored e.g.:
 - ✓ Plant
 - ✓ Material
 - ❖ **Time base**: data is not only aggregated on characteristic level but also by period e.g.:
 - ✓ Monthly to aggregate on a monthly basis
 - ✓ Weekly to aggregate on a weekly basis
 - ❖ **Key figures**: statistical info to be stored and reported (per characteristic and period) e.g.:
 - ✓ Problem frequency

Information Structures



Change User Settings

Mat. analysis Edit Goto View Extras Settings System Help

Q-Notification Analysis: Mat. Problems: Selection

SelectVers. User settings Standard drilldown

Charact.

Material		to		➔
Notification type		to		➔
Problem combination		to		➔
Problem		to		➔
Report type		to		➔
Plant for material		to		➔

Analysis period

Month	09.2002	to	11.2002	➔
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Parameters

Exception	
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User settings

Select

Change User Settings : Parameters

Select date range

Q-Notification Analysis: Mat. Problems : Parameters

Standard drilldown | Key figures | Std setting

User: SBTP00190

Selection proposal

Number of previous periods: 3

With current period

Number of future periods: 1

Version selectable

Currency translation

Analysis currency: []

Exchange rate type: M

Layout

Characteristic display

Key

Description

Key and description

Display drill-down log in page header

Initial graphic (ABC analysis, dual classific., classific.)

Column width

Charact. column: 30

Key figure columns: 15

Change characteristic display

Change column width

Formating the Layout of the Analysis

- ❑ **The following functions are available to change the format of the initial analysis:**
 - ❖ **Value display**
 - ✓ The figures can be displayed as a percent or an absolute value
 - ❖ **Characteristic display**
 - ✓ Can display the characteristic with the value in SAP
 - ❖ **Column width**
 - ✓ Can manipulate the width for both characteristics and key figures
 - ❖ **Page header**
 - ✓ Include the drilldown path or exclude it from the list

Drilldown in Standard Analysis Lists

□ There are three drilldown methods in standard analysis:

- ❖ Standard drilldown
- ❖ Drilldown by
- ❖ Switch drilldown

 Standard drilldown

Standard Drilldown

Material



Plant



Drilldown by

- Material
- Notification type
- Plant for material
- Problem
- Problem Combination
- Month

Switch drilldown...

Switch Drilldown

- Material
- Notification type
- Plant for material
- Problem
- Problem Combination
- Month

Save Analysis to Local File

1 Save to local file

2 Select format

3 Name the file

Material analysis Edit Goto View Extras Settings System Help

Execute
Execute in background
Save as... Ctrl+S
Print... Shift+F1
Export
Send Ctrl+F1
Get selection version
Delete selection version
Exit Shift+F3

Mat. Overview: Basic List

No.	Not. Outstg	NotBeingPr	NotifComp.	NotifReset	Tot. tasks	TsksOutstg	Tasks succ	TasksCom
	18	8	22	0	61	10	27	5
F1	1	0	0	0	0	0	0	0
F2	1	0	0	0	0	0	0	0
Q1	1	0	0	0	1	0	0	0
Customer complaint	17	8	2	7	22	0	0	0
Complaint ag. vend	12	1	3	8	21	0	0	0
InternalProbNotif.	16	6	3	7	17	0	0	0

Save list in file...

In which format should the list be saved?

- unconverted
- Spreadsheet
- Rich text format
- HTML format

Transfer DAT to a Local File

File name C:\Documents and Settings\Administrator\SAPworkdir\Q Not Analysis.xls

Transfer

Create Graphic from Analysis

The image shows a screenshot of the SAP Business Graphics interface. The main window is titled "SAP Business Graphics" and contains a menu bar with "Graphic", "Edit", "Goto", "Options", "Extras", and "Help". A "Graphics..." menu is open, showing options like "Time series graphic", "Portfolio graphi...", "Other info structure...", "Variants", and "User settings...". A blue arrow points from the text "Select graphics" to the "Graphics..." menu item.

In the background, a table titled "Q-Notification Analysis" is visible. It has columns for "Notificctn type" and "Tot". The table data is as follows:

Notificctn type	Tot
Total	4
F1	
F2	
Customer complaint	
Complaint ag. vend	
InternalProbNotif.	6

The foreground window displays a bar chart titled "Q-Notification Analysis: Mat. Overview - TotalNotif". The chart shows the total number of notifications for five categories: F1, F2, Customer compla, Complaint ag. ven, and InternalProbNotif. The y-axis ranges from 0 to 20. The bars are blue, and a mouse cursor is hovering over the "Customer compla" bar.

Category	Value
F1	1
F2	1
Customer compla	17
Complaint ag. ven	12
InternalProbNotif.	16

At the bottom of the chart window, there are several input fields: DS1, 46C, R/3, and R/3.

Select graphics

Relevant reports in QM

- ❖ **Notification problems: MCXP**
- ❖ **Material by lot: MCV3**
- ❖ **Material by results: MCXB**
- ❖ **Notification overview: MCXV**
- ❖ **Material by defects: MCXX**
- ❖ **Inspection Lot Selection: QA32**
- ❖ **Inspection Lot Selection: QA33**
- ❖ **List Display of Notifications: QM11**

Course Summary

You should now:

- ❑ Be able to recognize some standard reports available through quality management information system (QMIS)**
- ❑ Be able to produce customized reports using the drill down functionality in QMIS**
- ❑ Be able to display your report as a graphic**
- ❑ Be able to save your data as a spreadsheet for merging into a report for example**