

# Week 2 Unit 5: Quick Wins: Optimized ALV and Other Improvements





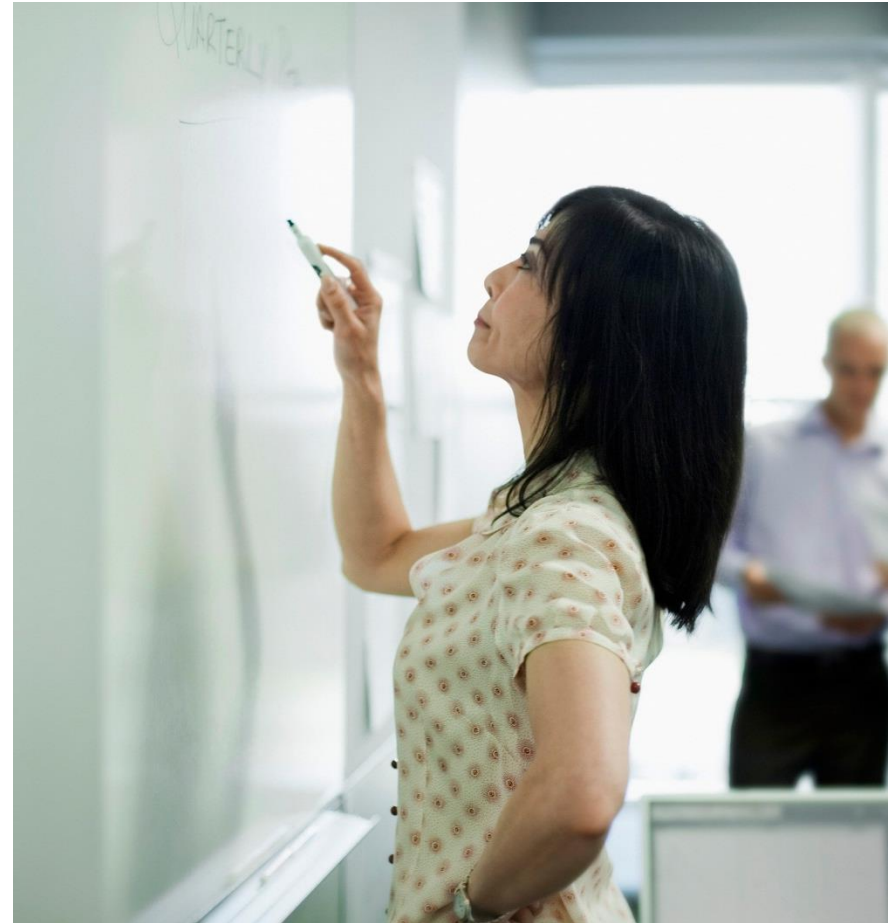
# Quick Wins: Optimized ALV and Other Improvements

## Outline

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### Content

- Transparent Optimizations
- ABAP List Viewer with Integrated Data Access
- Fault-Tolerant Search Help and Type-Ahead



# Quick Wins: Optimized ALV and Other Improvements

## Reminder: Transparent Optimizations

### ABAP development guidelines

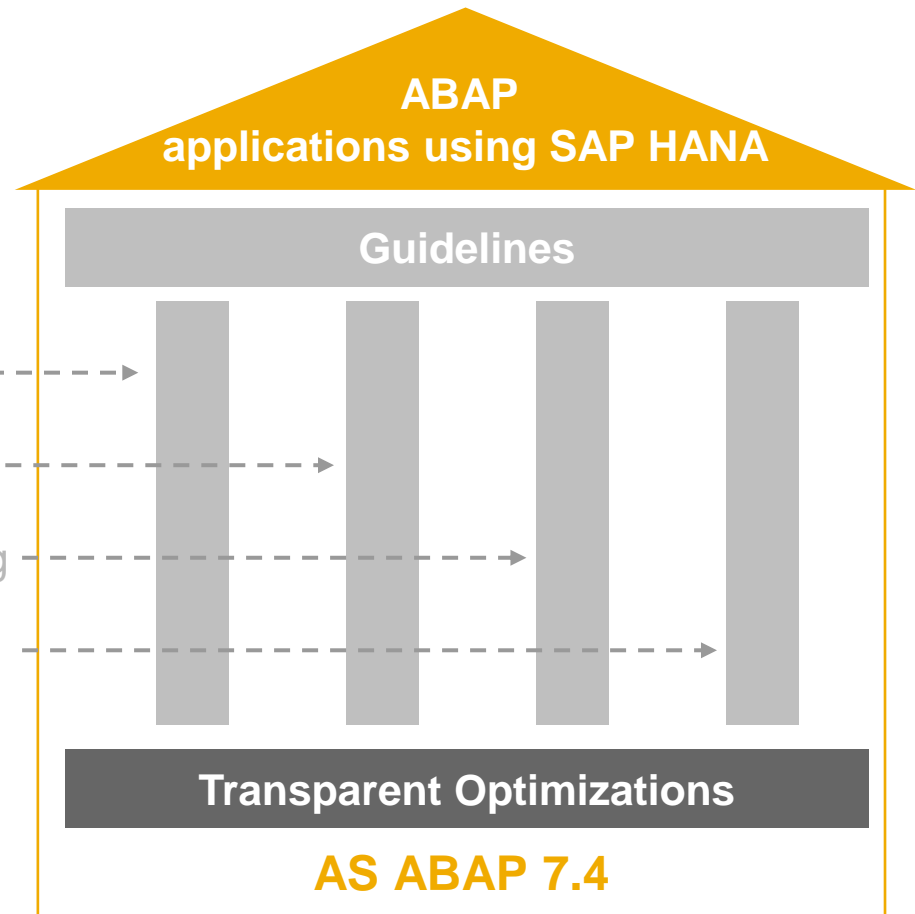
Improved tools for performance analysis - - - - ->

Extensions to ABAP and Open SQL - - - - ->

Features for SAP HANA-oriented programming - - - - ->

Re-use components optimized for SAP HANA - - - - ->

### Transparent optimizations



# Quick Wins: Optimized ALV and Other Improvements

## ABAP List Viewer with Integrated Data Access: Demo

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### ABAP List Viewer with Integrated Data Access

- Performance gains
- Leveraging SAP HANA capabilities



# Quick Wins: Optimized ALV and Other Improvements

## ABAP List Viewer with Integrated Data Access

### Optimizations

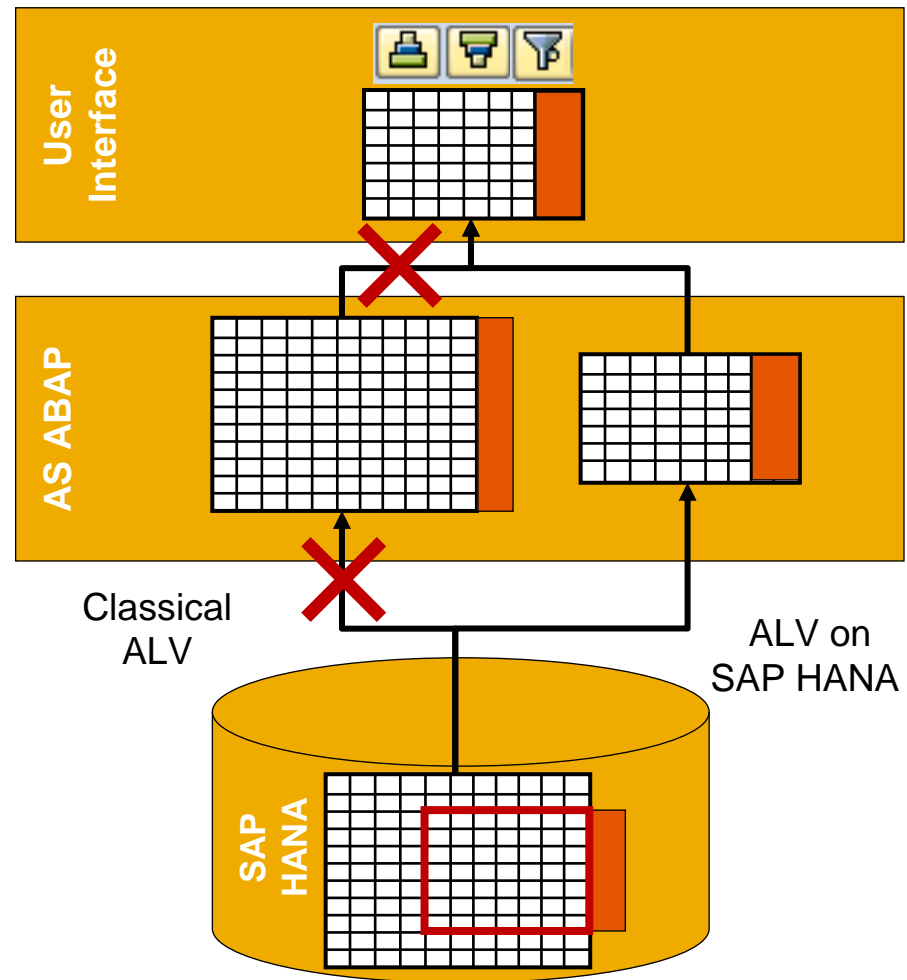
- Result set minimized
- Application of code-to-data paradigm

### Experience:

- Performance improvement
- Reduced memory footprint
- No truncation of selected data

### More Information:

- <http://scn.sap.com/docs/DOC-47994>
- ABAP Demo Programs in Package SALV\_IDA\_TEST



# Quick Wins: Optimized ALV and Other Improvements

## Fault-Tolerant Search Help: Demo

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### SAP HANA text search for search help

- Search help & type-ahead
  - DynPro
  - FPM WebDynPro



# Quick Wins: Optimized ALV and Other Improvements

## Search Help & Type-Ahead

### Search help enhancements

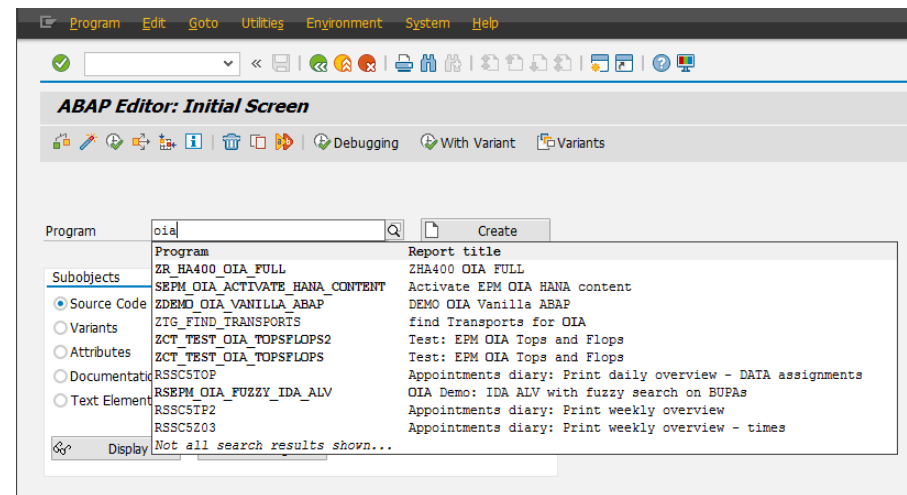
- Fault-tolerant search using SAP HANA
- Type-ahead functionality

### Technical Prerequisites:

- SAP GUI version 7.30 PL6 or higher
- SAP NetWeaver Application Server ABAP 7.4 SP03 or higher

### More Information in SCN:

- [Type Ahead in DynPro](#)
- [FPM, ALV & Type Ahead](#)



# Quick Wins: Optimized ALV and Other Improvements - Search Help with Fuzzy Search (1)



Additional Material

**Word suggestion based on the F4 value help data on any database**

**In addition: Cross-column full text search based on powerful SAP HANA Fuzzy Search**

- Fault-tolerance depending on specified accuracy value
- F4 Value Help and SAP HANA search results merged in result list

**Easy enabling via Search Help options**

- Further enhancements may be required

**Dictionary: Display Search Help**

Elementary Help: H\_I001 Active

Short Description: Company Codes

Attributes | Definition

Data Collection

Selection Method: I001

Text Table:

Dialog Behavior

Dialog Type: Display values immediately

Hot Key:

**Enhanced Options**

☒ Proposal Search for Input Fields

☒ Full Text Fuzzy Search (Database-Specific)

Accuracy Value for Error-Tolerant Full Text Search: 0,8

Search Help Exit:

Parameter

Search help parameter	IMP	EXP	LPoS	SPos	SDis	Data element	M...	Defa
BUKRS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	1	<input type="checkbox"/>	BUKRS	<input checked="" type="checkbox"/>	
BUTXT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	2	<input type="checkbox"/>	BUTXT	<input checked="" type="checkbox"/>	
ORT01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	3	<input type="checkbox"/>	ORT01	<input checked="" type="checkbox"/>	

**Type-ahead search settings**



# Quick Wins: Optimized ALV and Other Improvements - Search Help with Fuzzy Search (2)



Additional Material

**Vendor Line Item Display**

Input fields with type-ahead-enabled search help

Field appearance changing as soon as edited

Search dialog with full result list and additional search options

Input help displayed in a dropdown box as the user enters the search terms

Clickable entry

**Vendor Line Item Display**

Vendor selection

Vendor account  to

Company code  to

Selection using search help

Search help ID

Search string

Search help

Line item selection

Status

**Vendor Line Item Display**

Vendor selection

Vendor account  to

Company code

Selection using search help

Search help ID

Search string

Search help

Line item selection

Status

☐ Open items

☐ Open at key date

06.02.2014

**Search Dialog: Company Code**

Search Request:

Max. Results:  Find Results (F5)

CoCd	Company Name	City	Crcy
FR01	IDES France	Paris	EUR
FR03	RF-FX France - Test	France	EUR
1999	Test Mandate - RE-FX FR	France	EUR
2001	APA Mandate - RE-FX FR	France	EUR
F100	Bankhaus Frankfurt	Frankfurt	EUR
1009	IDES AG	Frankfurt	EUR
1100	IDES AG	Frankfurt	EUR
1000	IDES AG	Frankfurt	EUR
1005	IDES AG	Frankfurt	EUR
1011	FIATA-ILS currency	Frankfurt	ILS

Not all search results shown...

06.02.2014

CoCd	Company Name	City	Crcy
FR01	IDES France	Paris	EUR
FR03	RF-FX France - Test	France	EUR
1999	Test Mandate - RE-FX FR	France	EUR
2001	APA Mandate - RE-FX FR	France	EUR
F100	Bankhaus Frankfurt	Frankfurt	EUR
AC25	IDES Training AC Gr. 25	Frankfurt	EUR
AC24	IDES Training AC Gr. 24	Frankfurt	EUR
AC23	IDES Training AC Gr. 23	Frankfurt	EUR
AC22	IDES Training AC Gr. 22	Frankfurt	EUR

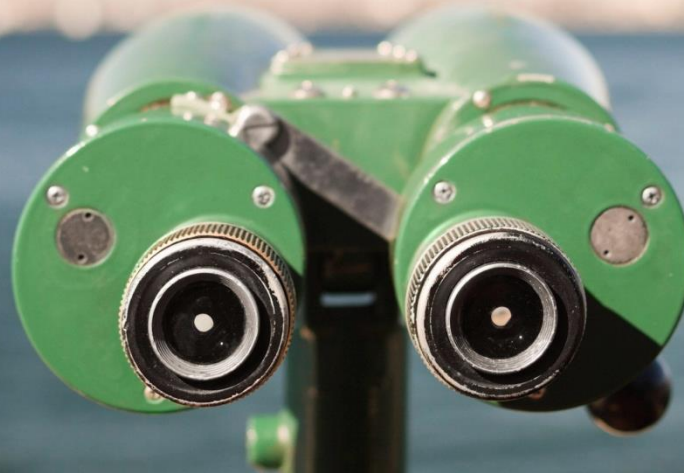
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## What's Next?

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Week 3 Unit 1

## Recent Open SQL Enhancements - Part 1





# Thank you

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