

# W01 - Business Central Dataset



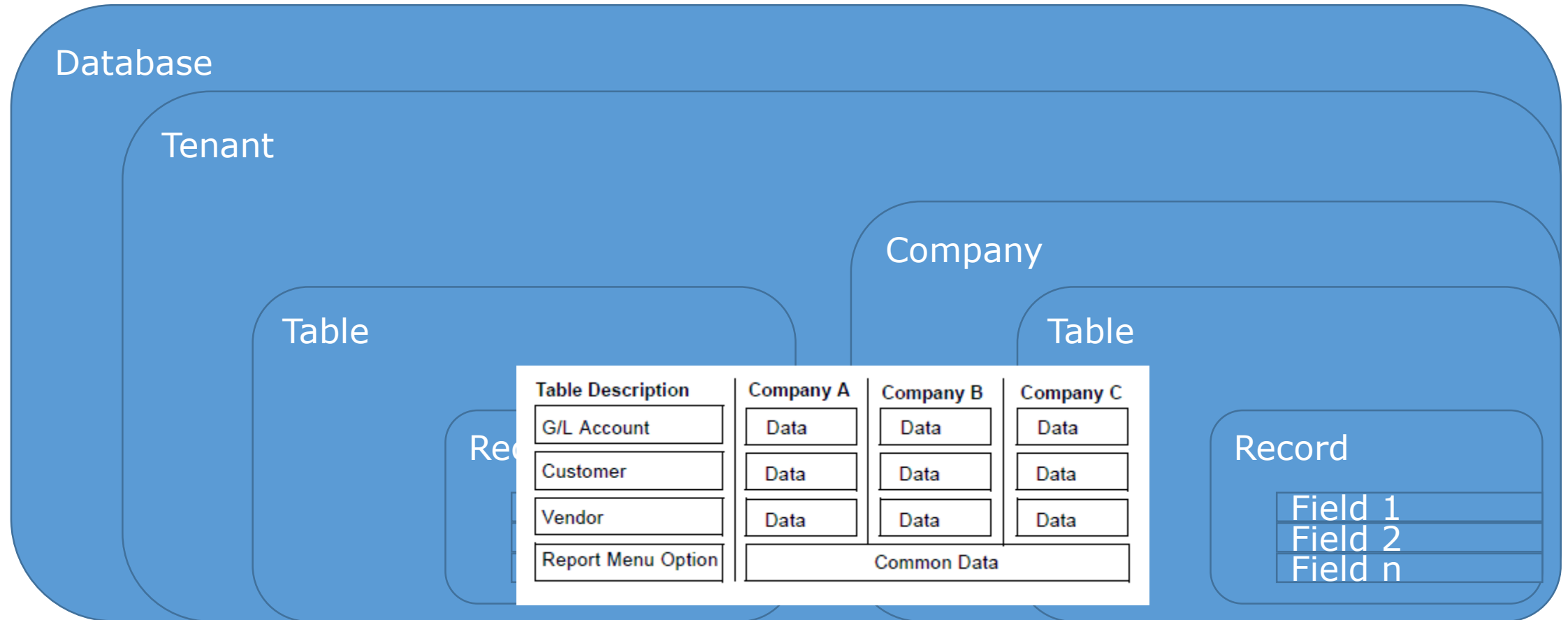
# Program

- Logical and Physical Database
- Tables
- Pages
- Reports
- Extensions
- Posting Routines
- Get started with Business Central and ForNAV

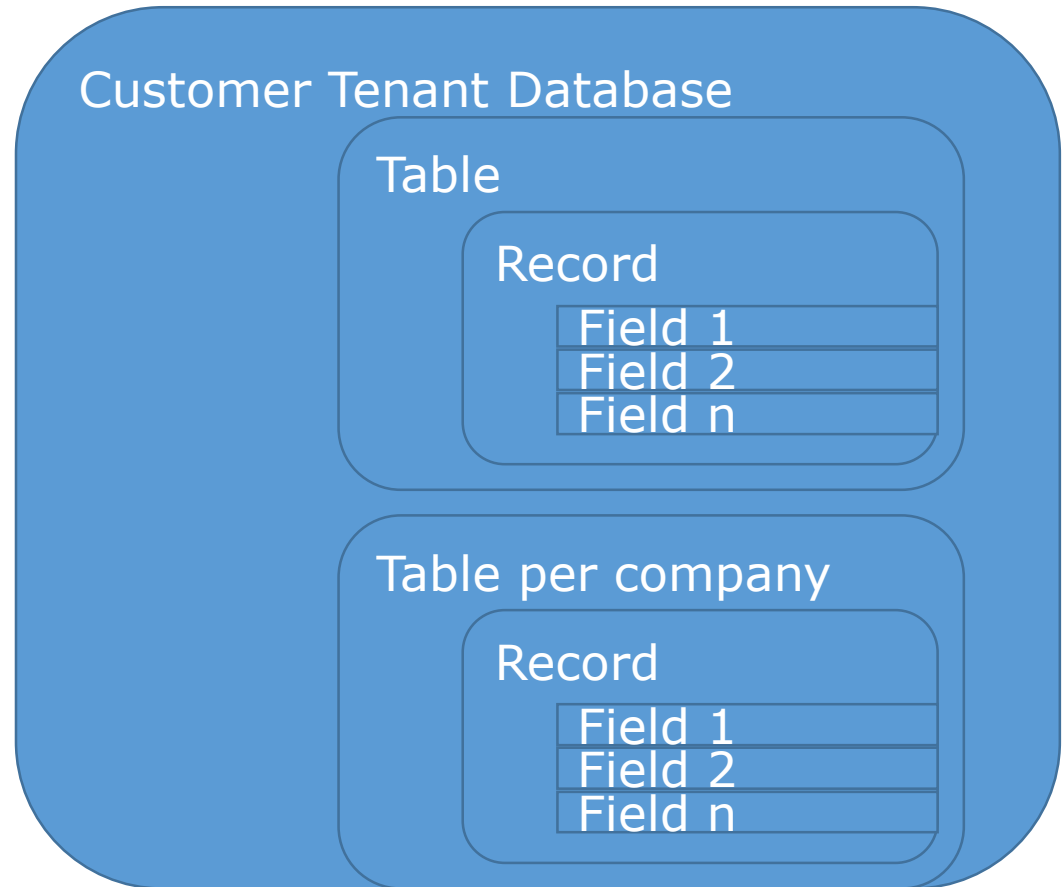
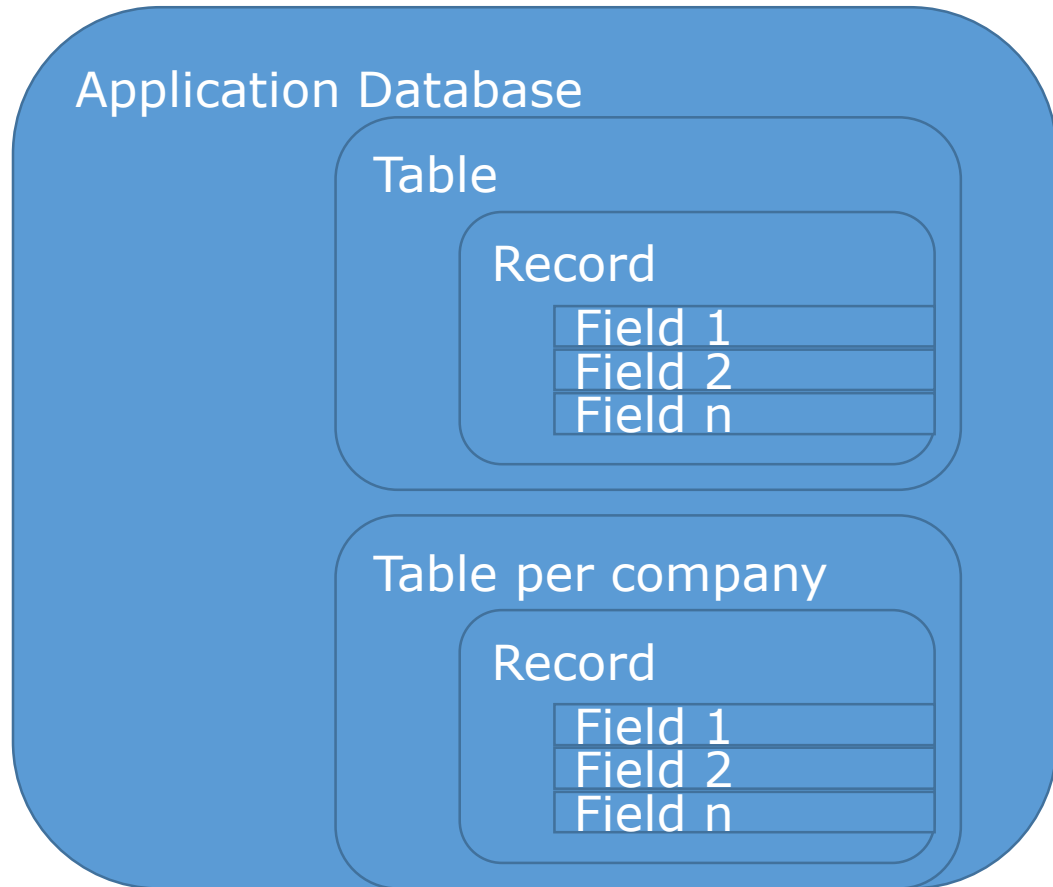
# Questions?



# Logical Database

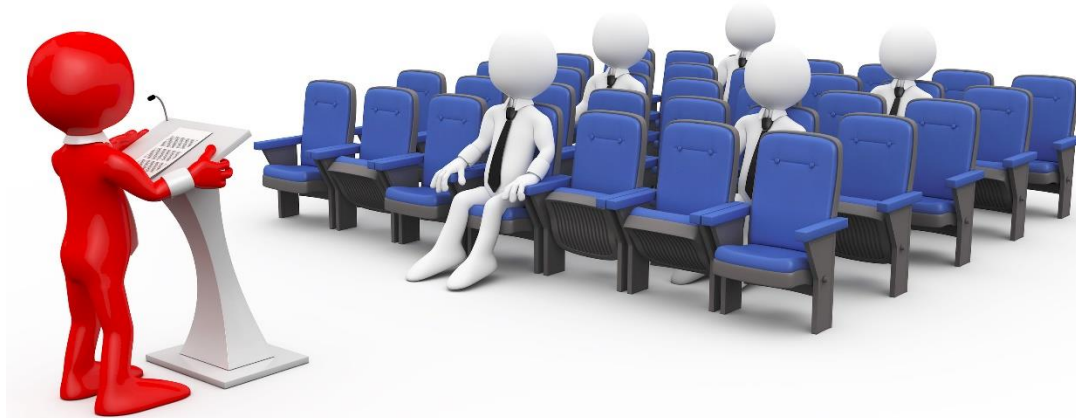


# Physical Database

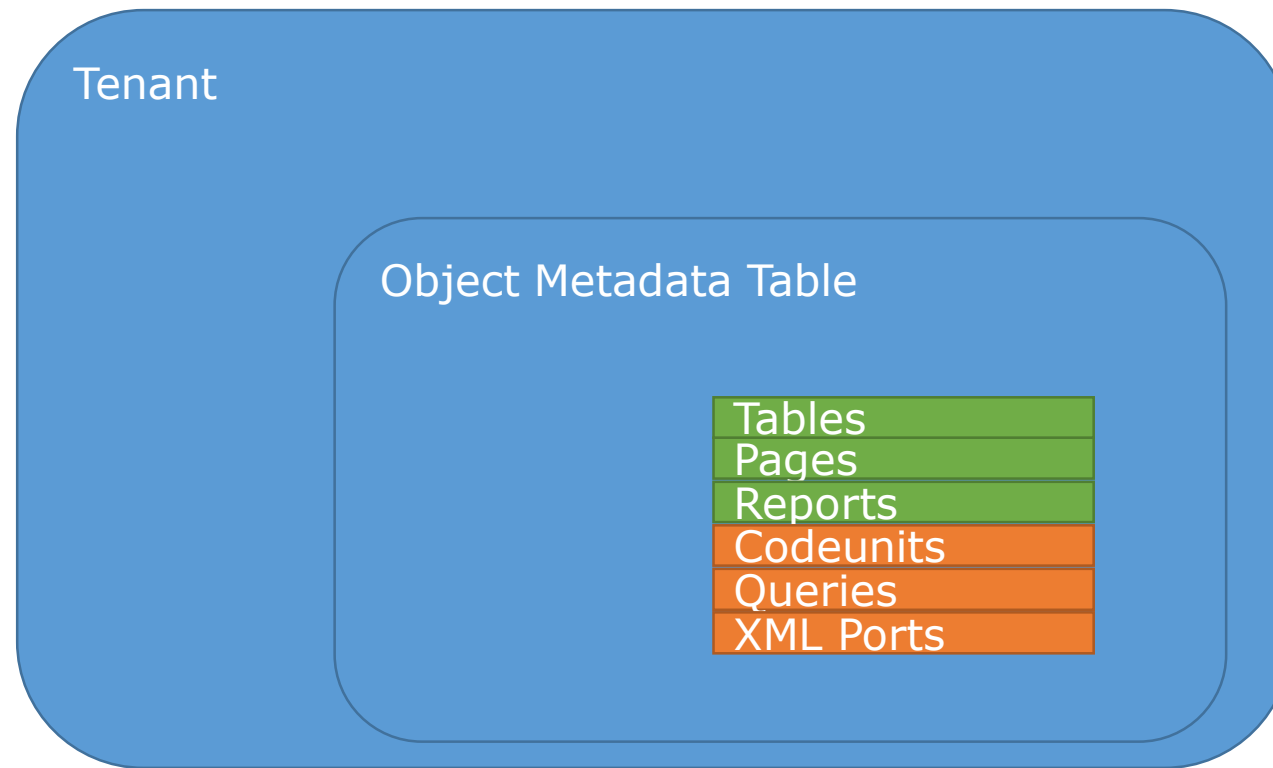


# Physical database

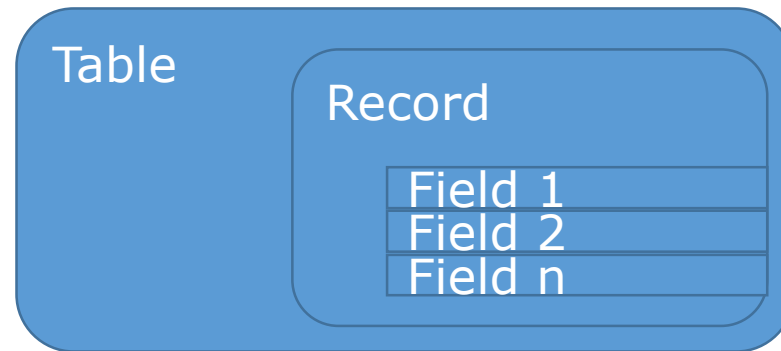
- Have a look at SQL



# Objects



# Tables





# Table Keys

Table

Record

Field 1 Key

Field 2

Field 1	Field 2	Field n
1	Data	Entry
1	Data2	Entry2
2	Data	Entry

# Header Line Pattern

Table 1	Record	
	No.	
	Field 2	
	Field n	

Table 2	Record	
	Table 1 No.	
	No.	
	Field n	

Sales Order  
Sales Invoice  
Purchase Order  
Purchase Invoice

# Singleton Pattern

Company Information  
ForNAV Setup  
Sales & Receivables Setup

Table 1	Record
	Key, empty
	Field 2
	Field n

# Entries Pattern

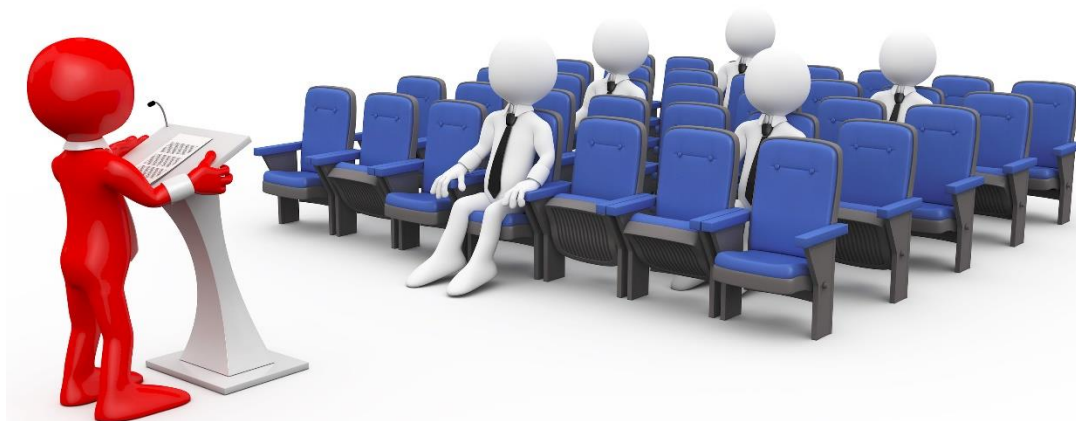
General Ledger  
Item Ledger  
Customer Ledger  
Vendor Ledger

Table 1	Record
	Key, Integer
	Field 2
	Field n

# Pages

- Show data in tables
- Types
  - List
  - Card
  - API
- Can be published as web service (SOAP, Odata, or API)

# Pages



# Reports

- Iterates through a predefined Dataset to visualize data or perform Business Logic
- Can
- Output
- Data
- Output layout can be changed without changing the object – No programming necessary



**ForNAV**

Reports made easy

# Report Dataset

Table 1	Record	
	No.	
	Field 2	
	Field n	

Table 2	Record	
	Table 1 No.	
	No.	
	Field n	

Table n	Record	
	Table 1 No.	
	No.	
	Field n	

## Report Dataset

Table 1

Table 2

Table Link: Table 1 No. = No.

Table n

Table Link: Table 1 No. = No.



# Report Iteration

## Report Dataset

Sales Invoice Header

Sales Invoice Line

Sales Invoice Header 1

Sales Invoice Line 1 - 1

Sales Invoice Line 1 - 2

Sales Invoice Line 1 - n

Sales Invoice Header 2

Sales Invoice Line 2 - 1

Sales Invoice Line 2 - 2

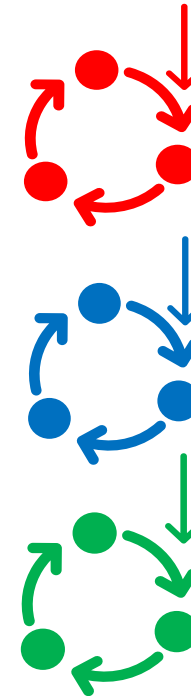
Sales Invoice Line 2 - n

Sales Invoice Header n

Sales Invoice Line n - 1

Sales Invoice Line n - 2

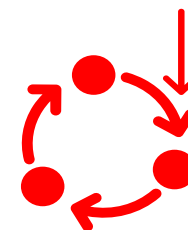
Sales Invoice Line n - n



# Report Iteration with filter

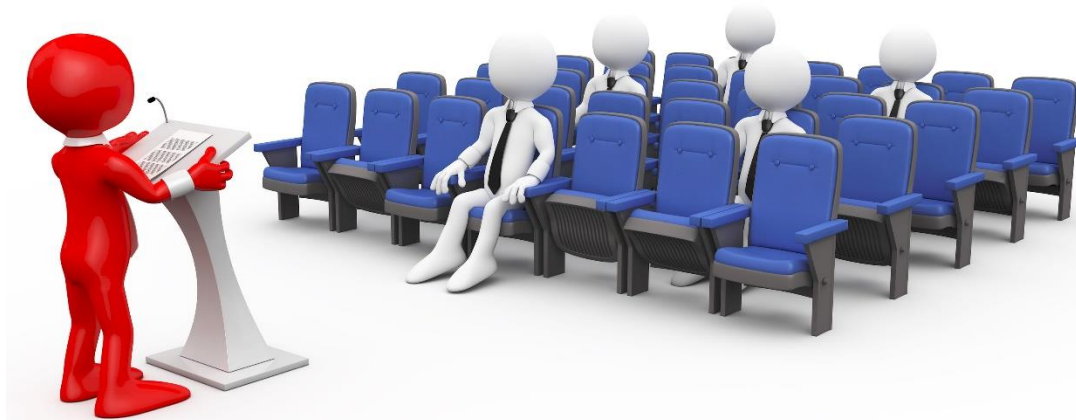
Report Dataset
Sales Invoice Header
Filter: No. = 1
Sales Invoice Line

Sales Invoice Header 1
Sales Invoice Line 1 - 1
Sales Invoice Line 1 - 2
Sales Invoice Line 1 - n



Insert Demo of a report from BC

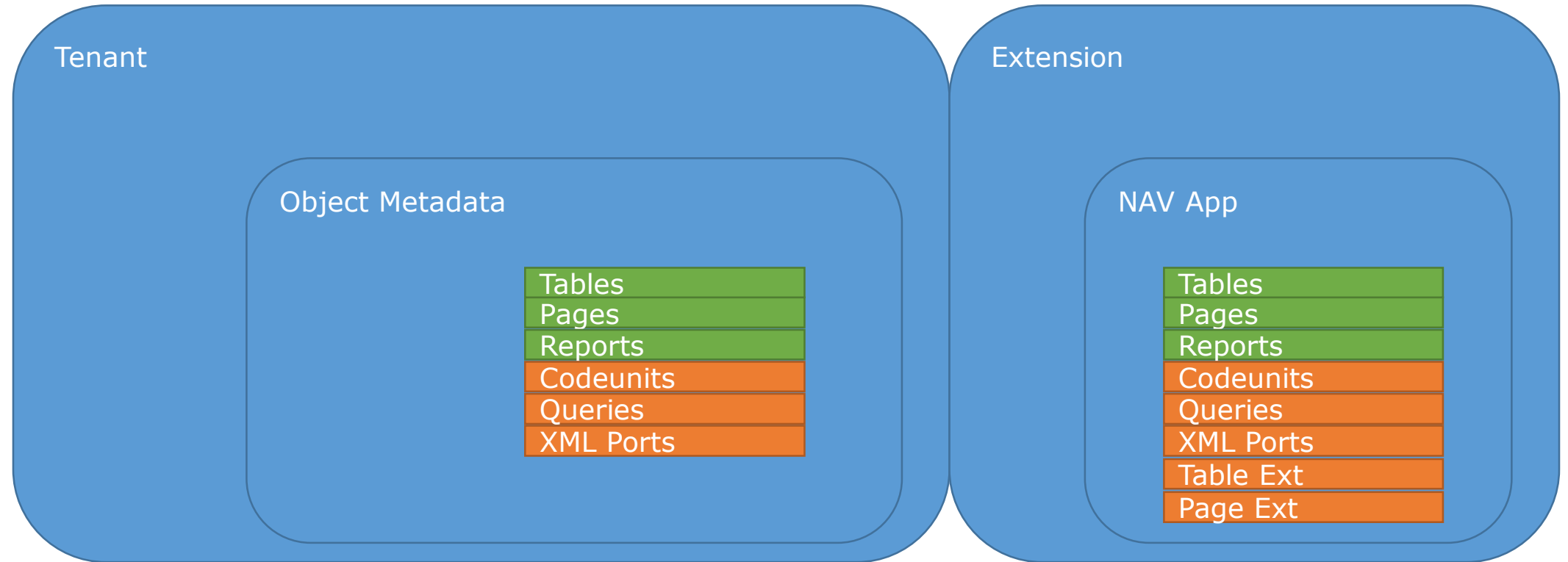
# Reports



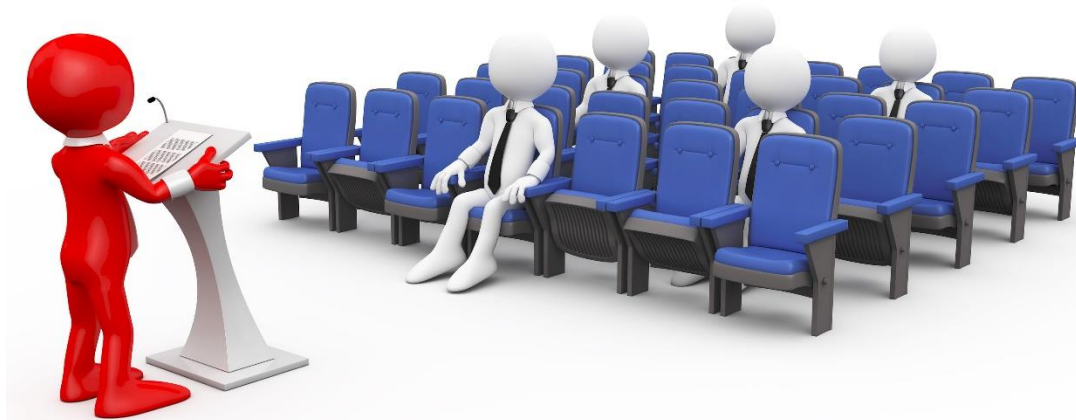
# Extensions

- Add or change Objects
- Customizes a Business Central Tenant and all companies in that Tenant
- Can be App Source Extensions or Tenant specific customization
- Created in Visual Studio Code
- ForNAV is an extension
- New ForNAV reports need to be in an extension

# Extensions



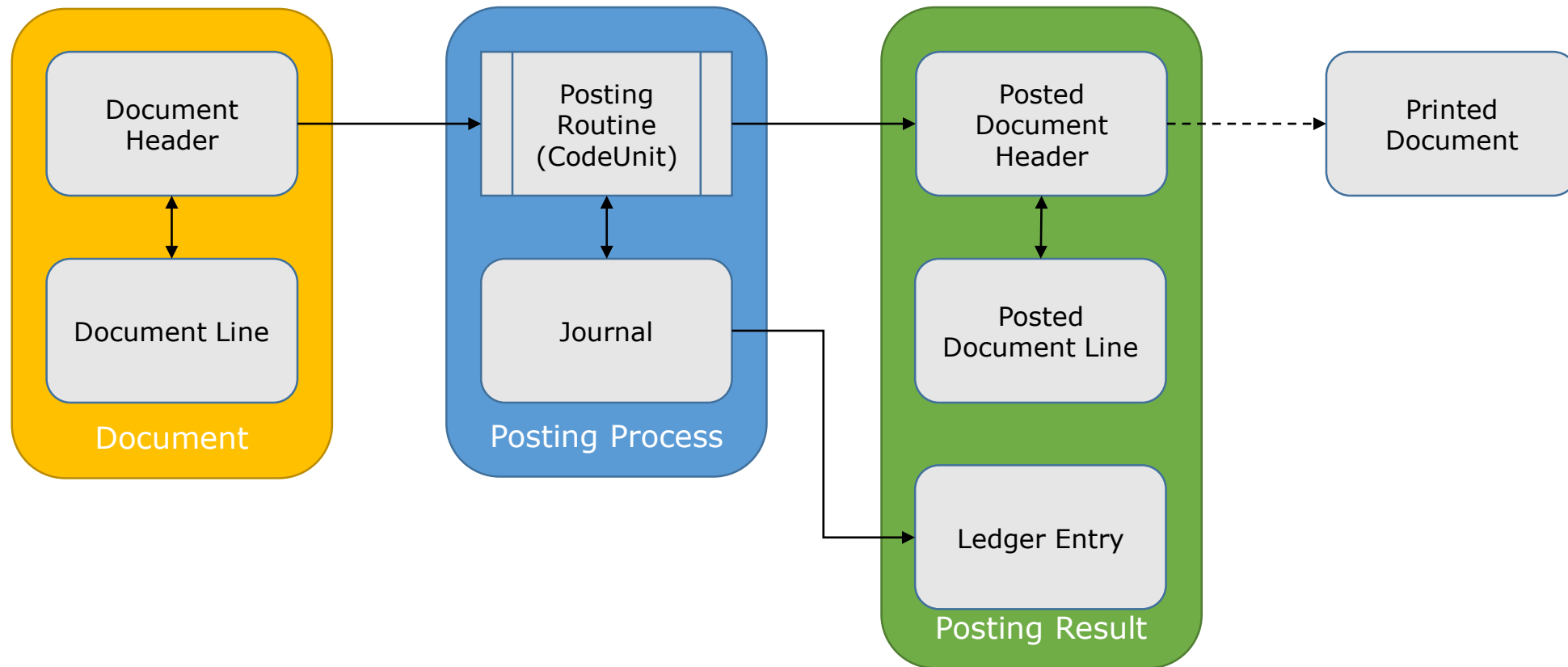
# Extensions



# Posting routines

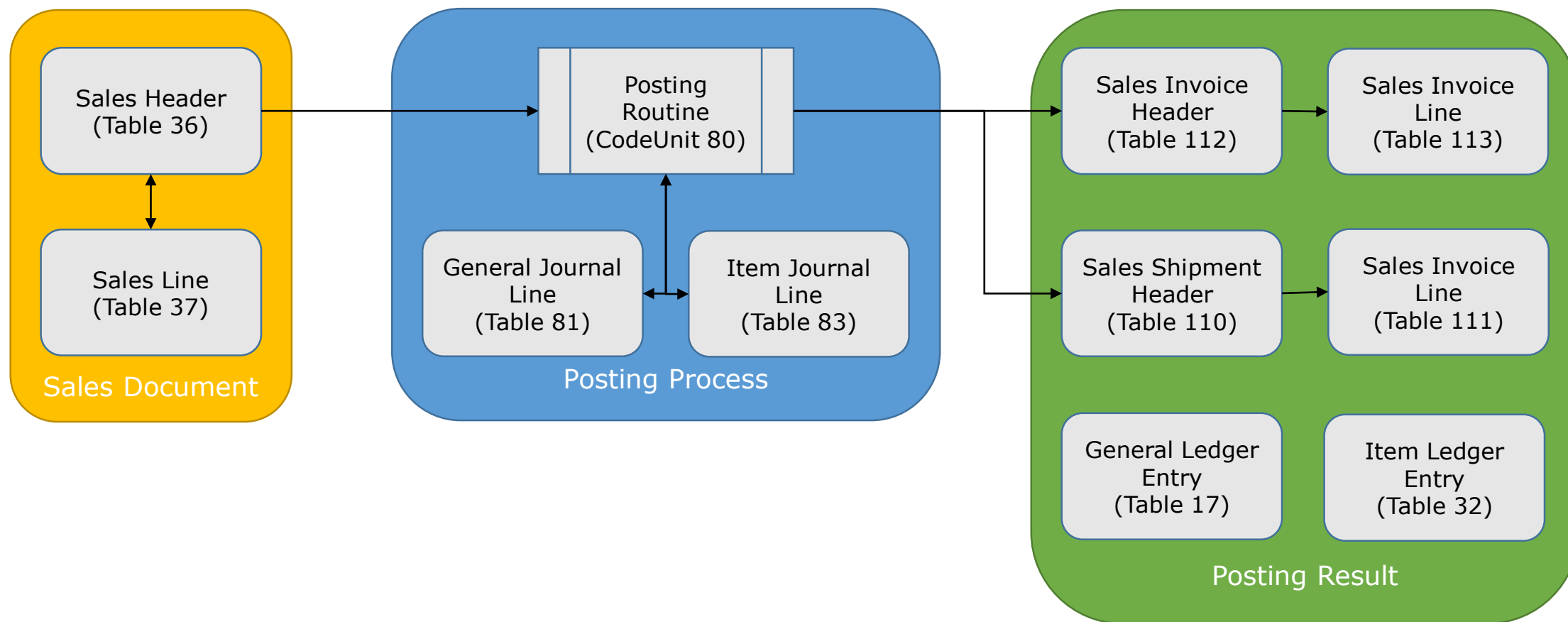
- Finalizes a posting
- Starts with a document
- Ends with Ledger Entries and Posted Documents

# Posting routines

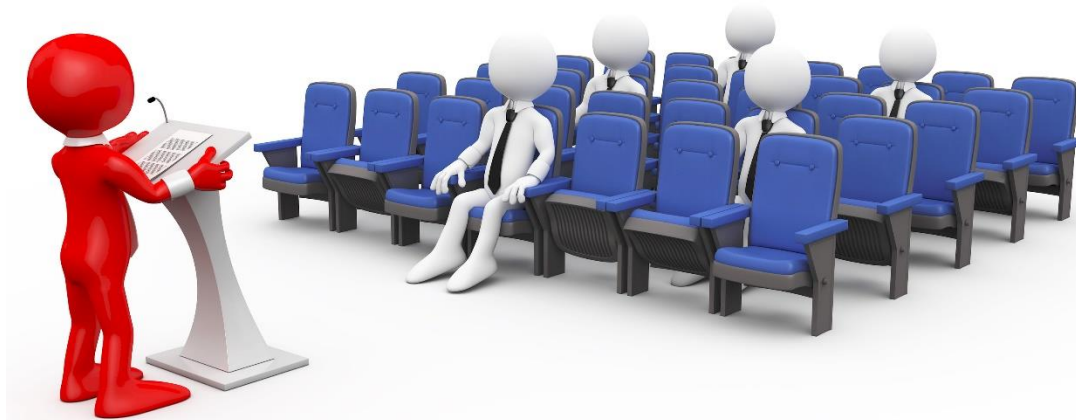




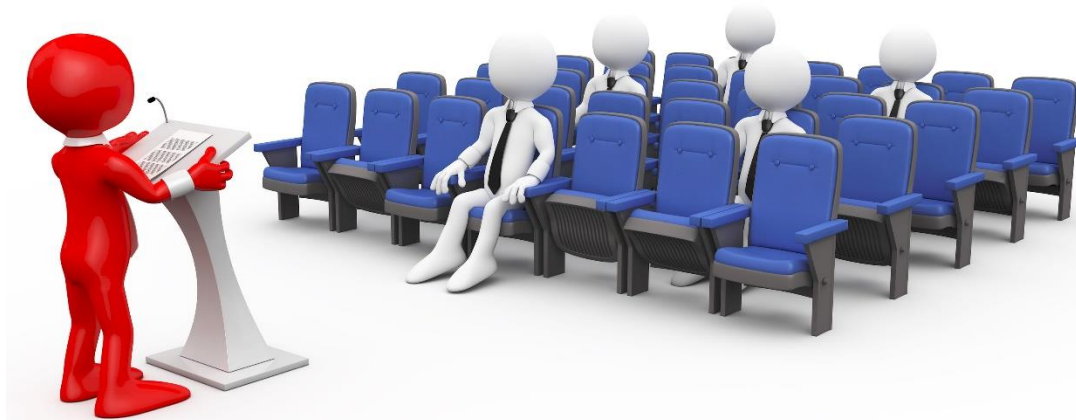
# Posting routine Example



# Posting routines



# Get started with Business Central and ForNAV



# Exercise

- Create a Business Central sandbox;
- Setup ForNAV on your system;
- Get the ForNAV Business Central app downloaded on your sandbox;
- Install the training extension on your sandbox;
- Run a few ForNAV reports.

# Questions?



# Further Learning

- How Do I: Read and Understand the Posting Routines in Microsoft Dynamics NAV 2013 R2
- <https://www.youtube.com/watch?v=Wetd1Fa0rmw>
- Get started with ForNAv in the cloud
- <https://www.youtube.com/watch?v=fMWN39dSCkk>
- Create a Microsoft Dynamics NAV Business Central sandbox environment
- <https://docs.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/devenv-get-started-container-sandbox>