

ERP

ERP:

- Enterprise Resource Planning
- ERP is a package under which all the business resources are integrated in one system

Enterprise-----organization

Resource-----FICO, HR, MM, PP, SD, CRM

Types of ERP:

1. High End ERP
2. Mid Range ERP

1. High End ERP:

- These ERPs are implemented in large scale industries
- In these ERPs all the tables, programs & applications are predefined

Example:

1. SAP R/3 (60000+ applications, 400000+ tables, 55+ modules)
2. Oracle Apps (for Finance)
 1. Oracle Finance
 2. Oracle Manufactures
 3. Oracle HRMS
3. SIEBEL (for CRM)
4. People Soft (for HR)

2. Mid Range ERP:

These ERPs are implemented in small scale & medium scale industries

Example:

1. Baan (for Finance)
2. JD Ed Wards (for logistics)
3. Ramco (for Cement)
4. Microsoft ERP (for Finance)

Need for ERP:

1. Large Organization
2. Centralized Database
3. User Friendly
4. Speed
5. Security
6. Competitive Advantage
7. Reduced Errors

SAP R/3

SAP R/3:

Systems, Applications, Products in data processing
R/3----- Real time 3 tier architecture

History:

SAP AG---- developed by 5 IBM employees in 1973----in woldoff (Germany)
SAP R/1(Finance)-----1973
SAP R/2 (Mainframes)-----1978
SAP R/3 (Client Server Technology)----1992

Systems:

These are basic resources for implementing a project

Examples:

Servers, Hardware, Soft ware, Systems, Network, Database.....etc

BASIS Consultant:

Roles:

1. Installation
2. Maintenance
3. Configuration
4. Customization (or) Administration

Applications:

- These are collection of Screens
- Each Screen is a collection of Fields

Use---Applications are used by Clients (or) End Users

Create---Applications are created by Abapars (or) Technical Consultant (or) ABAP Consultant

Customized Data----Applications data customized by Functional Consultant

Functional Consultant:

Roles:

1. Customization of Data
2. Getting requirements from Clients
3. Preparing Functional Documents
4. Preparing End User Manuals (or) Snapshots
5. Providing end user Training

Products:

- These are called Objects
- These are created by Programming

ABAP Consultant (or) Abapare (or) Technical Consultant:

Roles:

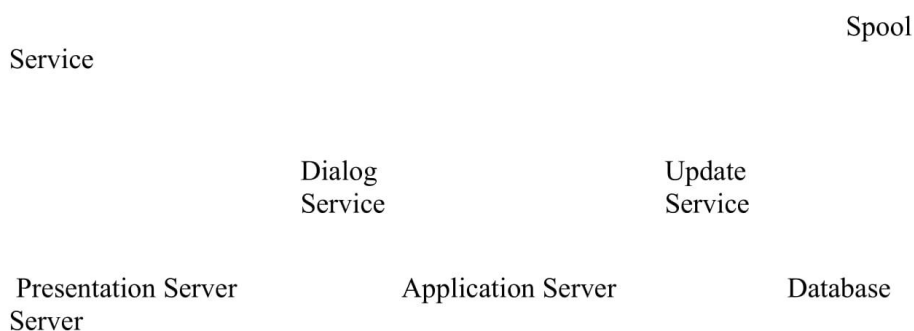
1. Creates Technical Documents (brief logic)
2. Creates an Object from scratch implementation project
3. Modifies existing objects to support project

14-08-2014

Features of SAP:

1. Designed based on RDBMS
2. Designed based on R/3 Architecture
3. Database independent
4. Supports all types of industry specific solutions
5. International package available in 40 languages
6. It can be customized using ABAP language
7. Best ERP for FI, SD, MM, PP, HR, CR
8. Supports Client-Server Technology
9. Highly versatile (Operating System independent)
10. Supports web based application softwares

SAP R/3 Architecture:



Services in R/3 Architecture:

1. **Dialog Service:**
It provides interface between Presentation Server & Application Server
2. **Update Service:**
It provides interface between Application Server & Database Server
3. **Spool Service:**

It provides interface between SAP R/3 & External Systems (Printers, Fax....etc)

4. Background Service:

It is for background scheduling

Note:

In real time once report is created, then it is scheduled in background by BASIS Consultants, they will set time & event related to it

5. En-queue Service:

It maintains data integrity (locking mechanism) in SAP

6. Message Service:

It is for Error & Exception handling

7. Gateway Service:

It is for distributed environment

Note:

The above 7 services are part of Application Server

8. SAP GUI Front End Service:

It handles all SAP GUI Operations in SAP Presentation Server

9. Database Service:

It Maintains & Manages data operations in Database Server

Versions in SAP:

<u>Version</u>	<u>Year</u>
1.0 & 1.1	1991
2.0 & 2.1	1991
3.0 & 3.1	1992
4.0	1998
4.6A, 4.6B, 4.6C	2000
4.7EE	2003
ECC 5.0	2005 (ECC----Enterprise Core Component)
ECC 6.0	2006 (Present Working)
BI/BO	2008 (Business Independent)

CRM, SCM, PLM 2009 (Customer Relationship Management, Product Lifecycle Management)

Soft wares in SAP:

1. Production Software
2. IDES Software (or) Training Software

1. Production Software:

- It is Real time
- Every company should purchase this software from SAP
- Here you will find only live data
- Clients (End Users) are works with Production Software

2. IDES Software:

- International Demonstration & Education System Software
- It is also known as Training Software
- Here you can find data for practice & examples for practice

Data Dictionary

It is also called ABAP Dictionary

It is a repository of data

T Code for Data Dictionary is SE11

Objects in Data Dictionary:

1. Database Table
2. Structure
3. View
4. Data Element
5. Domain
6. Table Type
7. Type Group
8. Lock Object
9. Search Help

Revised<->Active

Name	ZROHINI_EMP1	Transparent Table
Short Descript.	Employee table	
Last Changed	USER400	13.09.2021
Status	Actv.	Saved

General Properties **DB-Specific Properties**

Logical Storage Parameters

Data Class	APPL0	Master data, transparent tables
Size Category	0	Exected data records 0 to 4,600

Buffering

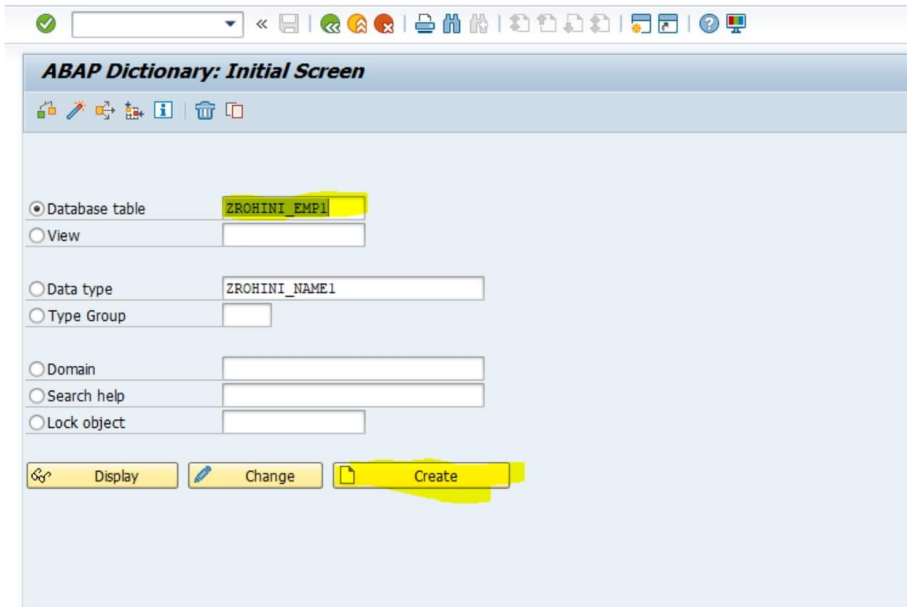
Buffering Not Allowed
 Buffering allowed but switched off
 Buffering Activated

Buffering Type

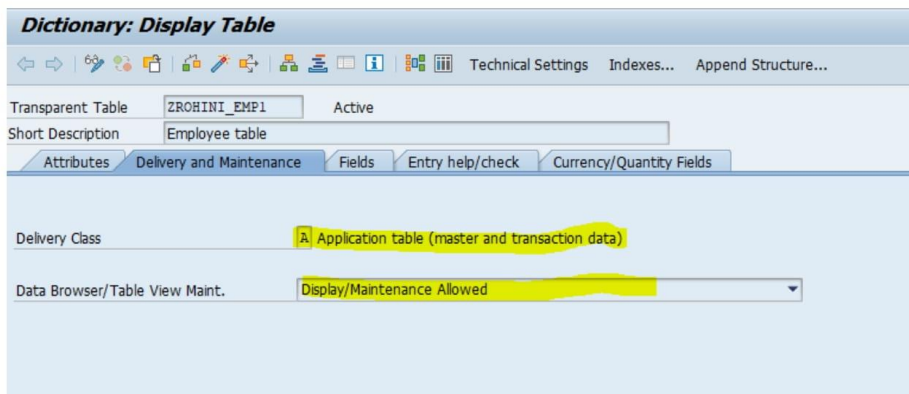
Single Records Buff.
 Generic Area Buffered
 Fully Buffered

Number of Key Fields

1. Go to the SE11



STEP 2



STEP 3

Transparent Table: ZROHINI_EMP1 Active

Short Description: Employee table

Attributes | Delivery and Maintenance | Fields | Entry help/check | Currency/Quantity Fields

Srch Help | Predefined Type | 1 / 5

Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description
MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3		Client
VBELN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VBELN_VA	CHAR	10		Sales Documnet Number
ERDAT	<input type="checkbox"/>	<input type="checkbox"/>	ERDAT	DATS	8		Date on Which Record Was Created
ZEMP_NAME	<input type="checkbox"/>	<input type="checkbox"/>	ZROHINI_NAME1	CHAR	35		Emp Name
ZEMP_NUM	<input type="checkbox"/>	<input type="checkbox"/>	ZEMP_NUM1	CHAR	10		Employee Number

STEP 4

Revised<->Active

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Buffering Type

Single Records Buff.

Generic Area Buffered Number of Key Fields: 0

Fully Buffered

SM30

FOR TMG

It is also called ABAP Dictionary

SAP ABAP PROGRAMMING

By Rohini Kumar

Day-1

- ▶ Introduction to ERP
- ▶ Introduction to SAP R/3
- ▶ SAP R/3 Services
- ▶ Introduction to ABAP/4 & ABAP Work Bench Tools
- ▶ Data Dictionary

Introduction to ERP

- ▶ What is ERP
- ▶ Enterprise Resource Planning, ERP is a package under which all the business resources are integrated in one system, Enterprise organization, Resource FICO, HR, MM, PP, SD, CRM

High End ERP

Mid Range ERP

- ▶ High end ERP Handle Large business and all thing store in one application only
EX: SAP , Oracle, people soft
- ▶ Mid ranges ERP for small business Ex: Baan

Introduction to ABAP/4 & ABAP Work Bench Tools

- ▶ SE80-Tcode use for ABAP Work Bench with the help of ABAP Work Bench Application We able to create Package Program Function Group Function Module , Class Interface , Internet Services, BSP Application , Local Object



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- ▶ Search Help

