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Technical Consultant Certification for the Database

"DB2 Universal Database"

now available at SAP Partner Academy

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Starting September 1998, the certification for the additional database "DB2 Universal Database" , formerly also known as "DB2 Common Server" is available:

- SAP R/3 certified Technical Consultant "NT / DB2 UDB"
- SAP R/3 certified Technical Consultant "UNIX / DB2 UDB"

The complete set of courses to prepare for the certification test are available:

- BC317   "R/3 Technical Core Competence (TCC) DB2 on UNIX/Windows NT"
- BC535   "Database Administration DB2 UDB "
- PABC67   "Technical Consultant Enhanced Training   DB2 on UNIX and Windows NT Systems"

The program and the tests for the SAP R/3 certified Technical Consultant are described in **"SAP R/3 Technical Consultant Certification Program**". The brochure can be ordered through normal channels at SAP (material number: 5001 2228).

1. Training

1.1 BC317 – R/3 Technical Core Competence DB2 on UNIX/ Windows NT

Target Group
-    Project team
-    SAP administrators
-    System administrators
-    Database administrators

Aims
This course provides specific recommendations on handling the individual tasks of R/3 administration. All administrative tasks are introduced and practiced based on practical examples.

Prerequisites
- SAP050 Basis Technology
- Basic Knowledge of MS Windows NT or the UNIX operating system

Course Contents
-    Software logistics
     - System and client concept
     - System settings in the Correction and Transport System
-    System administration
     - System configuration
     - User administration / system authorizations
     - Archiving
-    R/3 background processing
-    Spool management
-    Database administration
     - Database backup / restore
     - Database recovery scenarios
     - Database log file handling
     - Database monitoring
-    Error analysis
-              System workload analysis

1.2

BC535 – Database Administration DB2 Universal Database

Target Group
- Project team
- System administrators
- Database administrators

Aims
This course provides participants with an introduction to the tools for R/3 database administration. Participants are presented with recommendations for data backup and database monitoring.

Prerequisites
- SAP050 Basis Technology
- Technical Core Competence BC317
- Advanced knowledge of Knowledge of Windows NT or the UNIX operating system and database system.

Course Contents
- Database Architecture
- Data backup strategies
-              Database restore and recovery
-              Database monitoring
   - Storage management
   - Performance
   - Working with CCMS-DBA
- Working with the DB2 tools (DB2 Control Center, DB2 command line)

Note
We recommend attending this course two months after the initial installation.
The course is available starting in 4Q 1998.

1.3

PABC67 - Technical Consultant Enhanced Training DB2 on UNIX and Windows NT Systems

Target Group
  - experienced, certified "SAP R/3 Technical Consultants" from Partner Companies

Aim

 - The course communicates in a very compact form R/3 administration and installation on DB2
   UDB for experienced, certified "SAP R/3 Technical Consultants". It also includes a practical
   R/3 Installation on DB2 UDB on a Windows NT server.

Prerequisites

 - certified "SAP R/3 Technical Consultants", e.g. UNIX/ORACLE, NT/SQL Server

Course contents

  - DB2-Specification of the SAP course BC317 ("R/3 Technical Core Competence
    DB2 on UNIX/Windows NT"
  - System Administration
  - Database Administration DB2 UDB on NT and UNIX
  - Database-Backup / Restore
  - Redirected Restore - Transformation of the Database Layout
  - Database-Recovery Scenarios
  - Database-Log-File Handling
  - Database-Monitoring and CCMS
  - Fault Analysis
  - Analysis of the System Load
  - DB Tuning, Tips & Tricks
  - Practical installation of a complete R/3 System on a DB2 Common Server System
    under Windows NT

2. Test: DB2 UDB Database Administration

2.1   Overview

Certification candidates applying for on "DB2 on UNIX and Windows NT" oriented certification must successfully complete the R/3 - DB2 Common Server Database Administrator test together with the respective R/3- Operating System Interface test and the R/3 Basis System test.

The DB2 on UNIX and Windows NT test currently applies towards the SAP R/3 Technical Consultant certification for the following R/3 System variants:
- R/3 Release 3.0, UNIX, DB2 UDB
- R/3 Release 3.0, NT, DB2 UDB

The goal of the DB2 UDB Database Administration test is to establish whether a test participant has a good understanding of the R/3 System interface to this database platform.

The test includes covers DB2 Universal database Version 5, although DB2 Common Server V2 is also covered as a subset.

Certification candidates can prepare themselves for the Database Administration tests by attending the respective R/3 Database Administration course (BC500 series), database manufacturer's training, and through supplementary practical experience as well as BC317.

The test consists of approximately 40 multiple-choice taken from the following topics:

2.2   R/3- DB2 UDB Database Administration test topics

- **Database Architecture in the R/3 Environment**
  - Be familiar with and understand the R/3 System interface to DB2 on UNIX and Windows NT
  - Be familiar with DB2 instances in the R/3 Environment
  - Be familiar with database processes and files
  - Understand the logging mechanism
  - Understand the tablespace and container architecture
  - Be familiar with DB2 configuration aspects in the R/3 environment
  - Be familiar with the R/3 naming conventions for database files
  - Be familiar with database startup and shutdown procedures
  - Schedule database administration tasks
  - Be familiar with R/3 and database users and user authorizations
  - Be familiar with networked database environments

- **Database Maintenance and Administration**
  - Be familiar with R/3 System database administration tasks
  - Be familiar with and understand the meaning of database and operating system parameters and logs
  - Use SAP database monitoring tools
  - Perform daily administrative tasks using the database Alert Monitor
  - Perform administrative tasks using the DB2 command line processor , the DB2 database director, and the DB2 Control Center
  - Monitor database freespace situations
  - Monitor database backups
  - Monitor database performance
  - Be familiar with basic aspects of database tuning
  - Be familiar with database index monitoring
  - Be familiar with update statistics and verify
  - Use and understand database freespace checks
  - Restore a database so it may be used to install another R/3 System
  - Understand R/3 System security aspects

- **Database Backup Strategy**
  - Be familiar with database backup tools
  - Be familiar with backup types
  - Use database tools to plan and implement backup strategies
  - Use the CCMS for backup maintenance
  - Schedule backup execution and monitor backups

- **Database Backup Media Management**
  – Use database tools for tape initialization
  – Understand tape management and selection
  – Be familiar with the tape formats used for backups

- **Database Restore and Recovery**
  – Understand and be familiar with database recovery types, mechanisms, phases, and consequences
  – Run a restore of database backups
  – Recover a database

- **Storage Management Administration**
  – Be familiar with disk space requirements
  – Be familiar with tablespace and container administration
  – Understand storage space and volume management
  – Verify that the setup of filesystems, directories, and devices comply with SAP data security and performance standards
  – Be familiar with SAP naming conventions for containers
  – Understand database fragmentation
  – Schedule and understand database storage monitoring
  – Analyze, plan, and schedule database reorganization

- **Recognizing and resolving problem situations**
  – Be familiar with typical recovery cases and steps necessary to reimport data
  – Be familiar with the location, contents, and analysis of diagnostic files
  – Identify and respond to a log full or database full condition without loss of data
  – Handle table space overflows
  – Handle disk crashes
  – Resolve database performance problems
  – Resolve brarchiving errors
  – Resolve table/index problems
  – Resolve situations where DB2 cannot offload the online retained log files.
  – Restore the database after the loss of a tablespace
  – Restore the database using a offline backup
  – Restore the database using a online backup

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