

ABAP ON HANA Course Content

<p><u>Week - 1</u></p> <p>HANA TECHNOLOGY OVERVIEW</p> <ul style="list-style-type: none">• Introduction to HANA• IT In-Memory Strategy• HANA compare to BWA• In-Memory Computing• Hardware-Innovations• Software-Innovations• HANA simplified Architecture• HANA Extended Architecture• Business Intelligence Clients with HANA• HANA Columnar Store• HANA row store vs Columnar Storage <p>HANA VERSIONS</p> <ul style="list-style-type: none">• HANA 1.0 SPS03• HANA 1.0 SPS04—NEW Features• HANA 1.0 SPS05—NEW Features• HANA 1.0 SPS06—NEW Features• HANA 1.0 SPS07—NEW Features• HANA 1.0 SPS08—NEW Features• HANA 1.0 SPS09—NEW Features <p>HANA EDITIONS</p> <ul style="list-style-type: none">• SAP HANA Platform Edition• SAP HANA Enterprise Edition• SAP HANA Enterprise Extended Edition <p>SAP HANA SIZING</p> <ul style="list-style-type: none">• SAP HANA In-Memory Database Sizing elements• RAM, Disk, CPU• Memory Sizing• CPU Sizing• SAP HANA Scale Out	<p><u>Week - 2</u></p> <p>INSTALLING SAP HANA</p> <ul style="list-style-type: none">• SAP HANA unified Installer Tool• Unified Installer to install the Sap HANA SERVER• Components installed by Installer• Command based Installation• GUI based Installation <p>SAP HANA TOOL OVERVIEW</p> <ul style="list-style-type: none">• SAP HANA Studio• DBA Cockpit• HDBSQL Command Line Tool <p>INSTALL HANA STUDIO</p> <ul style="list-style-type: none">• System Requirements• Supported Platforms• Install SAP HANA Studio <p>POST-INSTALLATION STEPS</p> <ul style="list-style-type: none">• Starting and Stopping SAP HANA System• Displaying Process List• Logging on to HANA system using HANA studio• User Security• Monitoring HANA Landscape <p>SAP HANA DIRECT EXTRACTOR CONFIGURATION</p> <ul style="list-style-type: none">• Introduction to SAP HANA Direct Extractor <p>CONNECTION (DXC)</p> <ul style="list-style-type: none">• Limitations of DXC• Setup and Configurations• Enabling Services
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<p><u>Week - 3</u></p> <p>MAINTAINING USERS & AUTHORIZATIONS (SAP HANA SECURITY)</p> <ul style="list-style-type: none">• Create Users• User and Role Concept• Creating Roles• Assigning Privileges to Roles• Privileges• SQL Privileges• System Privileges• Analytic Privileges• Reporting and Privileges• Modeling required Privileges <p>SAP HANA LOGS & TRACES</p> <ul style="list-style-type: none">• Regular administration tasks• Troubleshooting• Analysing performance• Auditing SAP HANA• Global Audit Configuration• Manage Audit Policies• Audit Events• Audit Trail <p>UPDATING SAP HANA STUDIO</p> <p>SOFTWARE LIFECYCLE MANAGEMENT</p> <p>SAP HANA PRE AND POST INSTALLATIONS</p> <ul style="list-style-type: none">• Preparing SAP HANA Installation• Reviewing SAP HANA Installation• Post-Installation steps <p>LOOK AND FEEL</p> <ul style="list-style-type: none">• In-Memory Computing Studio• Administration view• Navigator View• System Monitor	<ul style="list-style-type: none">• HTTP Connection• Test Connection <p><u>Week - 4</u></p> <p>ARCHITECTURE</p> <ul style="list-style-type: none">• Architecture Overview• IMCE and Surroundings• Row Store• Column Store• Loading data into HANA• Data Modelling• Persistent Layer• Backup & Recovery <p>SAP HANA HARDWARE AND SOFTWARE REQUIREMENTS</p> <ul style="list-style-type: none">• Prepare Installation parameters• Users created during Installation• Required Installation media• Prepare Installer Configuration file <p>SAP HANA OPERATION</p> <ul style="list-style-type: none">• Starting & Stopping SAP HANA• Starting SAP HANA Database• Stopping SAP HANA Database• Displaying Process List• Monitoring HANA Landscape• Periodic Manual Tasks <p>DATA PROVISIONING USING SLT</p> <ul style="list-style-type: none">• Positioning and benefit of SLT for SAP HANA• Key benefits of Trigger-Based Approach• Architecture and building Blocks• Architecture for SAP Source Replication• Architecture for NON-SAP Source Replication• Set-up of LT replication server• Installation Aspects• Configuration Steps for SLT replication server• Setup Data Replication
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ABAP ON HANA Course Content

- Information Modeller

Week - 5

SAP HANA DB BACKUP AND RECOVERY

- System Configuration Parameters
- Monitoring and system state parameters
- Backup & Recovery SAP HANA
- Need of Backup
- Backup Types
- Data Backup
- Log Backup
- Recovery Options
- Recovery in Replication Scenarios
- Backup to External Backup Destinations
- Recovery Scenarios
- Power Failure
- Disk Failure

MONITORING AND TROUBLESHOOTING

- Configuring Remote Support
- Solution Manager Integration
- Remote Service Connection
- Availability Monitoring
- Setting up Monitoring
- System Monitoring Setup
- Status Overview
- Services Overview
- System Load History
- Disk Usage Details
- Checking System Configuration

- Database-Supportability
- Landscape strategy of SLT replication server
- SLT replication server Installation Options
- Technical Requirements and system setup

INFORMATION

- Configuring HANA Studio for importing Metadata
- Importing Metadata
- Mass Import
- Selective Import
- Load Data Via Data services into SAP HANA