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(SAP ABAP on HANA)

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Mainstream Institute (ISO 9001:2008) is a prestigious leading training organization being located In Nayapalli, Bhubaneswar.

AOH (ABAP ON HANA)

SAP HANA Introduction

- Features and Architecture of HANA Database

ABAP on HANA Introduction

- Role of ABAP consultants in SAP HANA
- Data to Code Vs Code to Data Approach
- Introduction to HANA Studio and overview

HANA object Development

- Introduction to SQL and Database Objects Schema
- Row storage Vs Column storage
- Database Tables – CRUD Operations
  - Create Table
  - Drop Table
  - Insert Data to table
- Global Vs Local Temporary Tables
- Create table using UI
- Order By clause
- Where clause and Logical Operator
- IN & Not IN Operator
- DUMMY Table
- Include calculated Column using CASE Expression + WHEN THEN ELSE
- Delete & Drop comparison
- Sub Query
- **CONSTRAINST**
  - Primary key and Foreign Key Constraints
  - NOT NULL Constraint
  - DROP Constraint
  - Reimpose the constraint & Delete statement
  - LIKE Operator and Unique constraint
  - CHECK Constraint
  - Composite Primary key
- Defining and Managing Triggers
- **Functions**
  - STRING_AGG Function
  - REPLACE_REGEXP Function
  - AVG & COALESCE Function
  - TO_DECIMAL & ROUND Function
- **Procedures**
  - Introduction
  - Procedure with CURSOR

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- CURSOR FOR-END CURSOR
- HANDLER Block in procedure
- Difference between Procedure and Function
  STORED PROCEDURES
- Standard way of creating stored procedure & consume in ABAP Report Prog.
- Creating Stored Procedures
- Creating Database Procedure Proxies
- Scalar Functions
- Table Functions

- **ARRAY**
  - ARRY_AGG Function
  - UNSET & Cardinality
- **TABLE TYPE**
  - Basics of Table type
  - Table Type examples
  - Create Table type using UI
- **VIEWS**
  - Overview of Views
  - Create view using UI
  - Column view
  - Alter view and with check option
- **INDEXES**
  - Unique Index
  - Tree Index
  - CPB Tree Index
- Exception Handling
- Conditional and Looping statements
- Sequences
- Synonyms
- SQL Functions

ADBC (ABAP DATABASE Connectivity)

- Introduction to ADBC Framework
- Consuming Select Queries in ABAP Reports using ADBC
- Parameter Binding in Queries using ADBC
- Consuming Stored Procedures using ADBC
- Parameter Binding in Stored Procedures using ADBC
- Accessing DDL and DML statements using ADBC

AMDP (ABAP Managed Database Procedures)

- Introduction to AMDP and ADT
- Bottom-Up & Top-Down Approach
- AMDP Class and Method overview
- Creating AMDP Class and Method
- Passing parameters to AMDP methods
- Receiving multiple Result set from AMDP Method
- Call AMDP method from another method
- Client Handling
- CRUD Operation using AMDP Method
- Exception handling while calling AMDP Method
- Select-option functionality in AMDP

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- Consuming AMDP's from ABAP Reports
- AMDP Vs Stored Procedures

ALV IDA (Integrated Data Access)
- Traditional ALV Vs ALV IDA
- Report Development using ALV IDA
- Set Custom ALV report Title & enable alternate Row pattern
- Access multiple tables using ALV IDA Framework
- Manipulate field catalog
- Adding custom calculated Column
- Manipulating Tool Bar
- Select-option in ALV IDA
- Interactive Report in ALV IDA

CDS (CORE DATA Services)
- Introduction and Components of CDS Views
- Difference between Dictionary view and CDS View
- Creating simple CDS Views-CASE Expression
- Create & consume CDS view with single parameters
- Create & consume CDS View with Multiple parameters
- CDS Views with Functions and Arithmetic Expressions
  - Aggregate Function (sum, max, min) & Group By & Having clause
  - Currency conversion function
  - Unit Conversion function
  - CONCAT & CONCAT_WITH Function
  - LENGTH, RIGHT, LEFT, INSTR, LPAD, RPAD, LOWER, UPPER, LTRIM, RTIM & REPLACE Function
  - Numeric Function (ABS, DIV, DIVISION, FLOOR, ROUND, MOD)
- CDS Views with Joins and Associations
  - END user text
  - Preserve Key
  - Buffering
  - Enhc. category & Maintenance
  - Access control. Authorization check
  - Object model.usageType
  - LAZY association
  - ADHOC Association
  - CDS View with Association on top of 3 DB table and consumption in ABAP report
  - Client Handling in CDS view
  - CDS view with UINON & UNION ALL
  - CDS View Integration with AMDP (Table function)
  - Expose CDS view as ODATA services
  - Create FPM App based on CDS view
  - CSD View Joins
  - CDS View Join on 3 Tables & Coalesce Function

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HANA MODELING

- Introduction to HANA Modeling
- Creating Attribute, Analytic, Graphical Calculation Views
- Creating External Views for HANA Modeling Views
- Consuming External Views from ABAP Reports
- Creating Graphical Calculation views integrating with Table Functions

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