COURSE OUTLINE

Course Version: 16
Course Duration:
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Typographic Conventions

American English is the standard used in this handbook. The following typographic conventions are also used.

<table>
<thead>
<tr>
<th>Example text</th>
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<tbody>
<tr>
<td><img src="image1.png" alt="Diagram" /></td>
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</tbody>
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## Course Overview

### Unit 1: Introduction
- Lesson: Describing Methods of Data Provisioning
- Lesson: Introducing SDI and SDQ
- Lesson: Introducing SDA
- Lesson: Creating a Multi-Target Application

### Unit 2: Transforming Data
- Lesson: Introducing Flowgraph Modeling
- Lesson: Data Source and Target
- Lesson: Union
- Lesson: Projection
- Lesson: Join
- Lesson: Aggregation
- Lesson: Case

### Unit 3: Accessing Remote Data Sources
- Lesson: Creating the Remote Source and the Virtual Table
- Lesson: Installing and Configuring the Data Provisioning Agent

### Unit 4: Replicating Data
- Lesson: Introducing Data Replication
- Lesson: Replicating Data in Real Time

### Unit 5: Monitoring Data Provisioning
- Lesson: Introducing Data Provisioning Monitoring
- Lesson: Monitoring Data Provisioning Agents and Agent Groups
- Lesson: Monitoring Remote Sources
- Lesson: Monitoring Remote Subscriptions
- Lesson: Monitoring Data Provisioning Tasks

### Unit 6: Using More Flowgraph Nodes
- Lesson: Cleanse
- Lesson: Data Mask
- Lesson: Geocode
- Lesson: Procedure
- Lesson: Pivot
TARGET AUDIENCE
This course is intended for the following audiences:

- Data Consultant
- Developer
- Solution Architect
Lesson 1: Describing Methods of Data Provisioning

Lesson Objectives
After completing this lesson, you will be able to:

- Explain the acronym ETL

Lesson 2: Introducing SDI and SDQ

Lesson Objectives
After completing this lesson, you will be able to:

- Describe useful general concepts about SDI and SDQ

Lesson 3: Introducing SDA

Lesson Objectives
After completing this lesson, you will be able to:

- Understand SAP HANA Smart Data Access (SDA) for data virtualization

Lesson 4: Creating a Multi-Target Application

Lesson Objectives
After completing this lesson, you will be able to:

- Create a multi-target application in SAP Web IDE for SAP HANA
Lesson 1: Introducing Flowgraph Modeling

Lesson Objectives
After completing this lesson, you will be able to:

• Describe required concepts about SDI and SDQ modeling

Lesson 2: Data Source and Target

Lesson Objectives
After completing this lesson, you will be able to:

• Use Data Source and Target in the flowgraph

Lesson 3: Union

Lesson Objectives
After completing this lesson, you will be able to:

• Use the Union node in the flowgraph

Lesson 4: Projection

Lesson Objectives
After completing this lesson, you will be able to:

• Use the Projection node in the flowgraph

Lesson 5: Join

Lesson Objectives
After completing this lesson, you will be able to:

• Use the Join node in the flowgraph

Lesson 6: Aggregation

Lesson Objectives
After completing this lesson, you will be able to:

- Use the Aggregation node in the flowgraph

### Lesson 7: Case

**Lesson Objectives**

After completing this lesson, you will be able to:

- Use the Case node in the flowgraph
Lesson 1: Creating the Remote Source and the Virtual Table

Lesson Objectives
After completing this lesson, you will be able to:

• Create the Remote Source and the Virtual Table

Lesson 2: Installing and Configuring the Data Provisioning Agent

Lesson Objectives
After completing this lesson, you will be able to:

• Install and configure the Data Provisioning Agent
Lesson 1: Introducing Data Replication

Lesson Objectives
After completing this lesson, you will be able to:

- Describe data replication in SAP HANA

Lesson 2: Replicating Data in Real Time

Lesson Objectives
After completing this lesson, you will be able to:

- Replicate data in real time
Lesson 1: Introducing Data Provisioning Monitoring

Lesson Objectives
After completing this lesson, you will be able to:

- Describe Data Provisioning Monitoring

Lesson 2: Monitoring Data Provisioning Agents and Agent Groups

Lesson Objectives
After completing this lesson, you will be able to:

- Explain Monitoring Data Provisioning Agents and Agent Groups

Lesson 3: Monitoring Remote Sources

Lesson Objectives
After completing this lesson, you will be able to:

- Monitor Remote Sources

Lesson 4: Monitoring Remote Subscriptions

Lesson Objectives
After completing this lesson, you will be able to:

- Monitor Remote Subscriptions

Lesson 5: Monitoring Data Provisioning Tasks

Lesson Objectives
After completing this lesson, you will be able to:

- Monitor Data Provisioning Tasks
**Lesson 1: Cleanse**

**Lesson Objectives**
After completing this lesson, you will be able to:

- Use the Cleanse node in the flowgraph

**Lesson 2: Data Mask**

**Lesson Objectives**
After completing this lesson, you will be able to:

- Use the Data Mask node in the flowgraph

**Lesson 3: Geocode**

**Lesson Objectives**
After completing this lesson, you will be able to:

- Use the Geocode node in the flowgraph

**Lesson 4: Procedure**

**Lesson Objectives**
After completing this lesson, you will be able to:

- Use the Procedure node in the flowgraph

**Lesson 5: Pivot**

**Lesson Objectives**
After completing this lesson, you will be able to:

- Use the Pivot node in a Flowgraph