COURSE TABLE OF CONTENTS

Celonis Data Integration

OEM: Koenig Original • Duration: 3 Days (20 hrs)

COURSE MODULES & TOPICS

Module 1: Data Integration Fundamentals

- Process mining data requirements: case ID, activity, timestamp
- Celonis Data Integration architecture
- Data pools: structure, versioning and sharing
- Event log vs. object-centric data concepts

Module 2: Data Connections and Extractors

- Cloud and on-premise extractors (SAP, ServiceNow, JDBC databases)
- Uplink / on-prem extractor setup overview
- File uploads and Data Push API
- Connection security and credentials

Module 3: Extractions

- Configuring extraction tasks: tables, columns, filters
- Full vs. delta loads and delta filter design
- Joins, dependent tables and pseudonymisation
- Handling large tables and performance

Module 4: Transformations (SQL)

- Transformation tasks in Vertica SQL
- Building the activity table from source tables
- Case tables, master data and lookup tables
- Templates, parameters and reusable scripts
- Data quality checks and validation queries

Module 5: Data Models

- Creating data models: activity, case and dimension tables
- Foreign keys and table relationships
- Loading data models: full and partial loads
- Data model troubleshooting

Module 6: Scheduling, Monitoring and Operations

- Data jobs and job dependencies
- Schedules and delta-load strategies
- Monitoring, logs, alerts and failure handling
- Replication Cockpit overview (real-time extraction)
- Moving pools across environments and best practices

Module 7: Capstone Lab

- End-to-end build: connect, extract, transform, model and schedule a process
- Review and Q&A

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