Real-time Reporting with HANA and In-Memory DBs Training Course

Professional Development Training Course Outline

Category	Enterprise Resource Planning (ERP)	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s fast-paced business environment, organizations demand real-time insights to drive strategic decision-making and gain a competitive edge. Real-time Reporting with HANA and In-Memory DBs Training Course empowers professionals to harness the power of SAP HANA, in-memory computing, and advanced analytics for lightning-fast data processing. Participants will gain hands-on experience in building dynamic dashboards, live reporting solutions, and data-driven strategies that transform raw data into actionable intelligence. With a focus on scalability, efficiency, and high-performance analytics, this course equips learners to optimize business operations and improve decision-making across industries.

This comprehensive program combines theoretical knowledge with practical case studies, interactive workshops, and real-world projects to ensure learners can immediately apply their skills in a professional environment. From understanding data modeling, columnar databases, and real-time ETL processes, to mastering predictive analytics and self-service reporting, this course is designed to produce experts who can unlock the full potential of HANA in-memory technology. Whether you are a data analyst, BI developer, or IT consultant, this training provides the tools and strategies required to thrive in today’s data-driven economy.

Programme Curriculum

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Course Duration

5 days

Course Objectives

1. Understand SAP HANA architecture and in-memory computing principles.
2. Master real-time data processing and stream analytics.
3. Develop dynamic dashboards using HANA Live Views.
4. Implement data modeling techniques for high-performance reporting.
5. Optimize query performance with columnar databases.
6. Execute real-time ETL processes with HANA Smart Data Integration.
7. Leverage predictive analytics for actionable business insights.
8. Integrate SAP HANA with BI tools like SAP Analytics Cloud.
9. Enable self-service reporting for business users.
10. Apply security best practices for sensitive enterprise data.
11. Troubleshoot performance bottlenecks in real-time reporting systems.
12. Explore case studies of successful HANA implementations.
13. Develop scalable, enterprise-ready reporting solutions.

Target Audience

1. Business Intelligence (BI) Analysts
2. Data Analysts and Data Scientists
3. SAP HANA Developers and Consultants
4. IT Managers and System Architects
5. Business Process Analysts
6. Enterprise Data Managers
7. Reporting Specialists
8. Decision-makers seeking **data-driven insights**

Course Modules

Module 1: Introduction to SAP HANA & In-Memory Databases

- Overview of SAP HANA architecture
- In-memory vs. traditional databases
- Key advantages for real-time analytics
- Use cases in finance, retail, and manufacturing

- Case Study: How a retail giant reduced reporting latency by 70%

Module 2: Data Modeling in HANA

- Attribute, analytic, and calculation views
- Columnar storage concepts
- Data modeling best practices
- Performance optimization techniques
- Case Study: Streamlining supply chain analytics using HANA views

Module 3: Real-time Reporting Techniques

- Understanding HANA Live reporting
- Configuring real-time dashboards
- Query optimization strategies
- Integrating HANA with SAP Analytics Cloud
- Case Study: Real-time sales reporting for a global FMCG company

Module 4: Advanced Analytics & Predictive Modeling

- Introduction to predictive analytics in HANA
- Creating forecasting models
- Using text and spatial analytics
- Scenario planning for business decision-making
- Case Study: Predictive maintenance in the manufacturing sector

Module 5: Data Integration & ETL in Real-Time

- HANA Smart Data Integration overview
- Replication techniques and tools
- Real-time vs batch processing
- Best practices for data quality management
- Case Study: Financial institution achieving near-zero latency reporting

Module 6: Performance Tuning & Optimization

- Query performance monitoring
- Indexing strategies and compression techniques
- Memory management best practices
- Troubleshooting slow reports
- Case Study: Optimizing a logistics dashboard to reduce load time by 60%

Module 7: Security & Compliance in HANA

- Role-based access control
- Data encryption techniques
- Auditing and compliance monitoring
- Security for cloud vs on-prem HANA deployments
- Case Study: Implementing GDPR-compliant reporting workflows

Module 8: Capstone Project & Industry Applications

- Building a real-time reporting solution end-to-end

- Integrating multiple data sources
- Applying analytics and predictive models
- Presenting actionable insights to stakeholders
- Case Study: Multi-national enterprise transforming data into strategic decisions

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call +254769199797

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price

23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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