SQL Server for Business Intelligence Training Course

Professional Development Training Course Outline

Category	Business Intelligence	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

SQL Server for Business Intelligence (BI) is a critical platform for organizations aiming to transform raw data into actionable insights. SQL Server for Business Intelligence Training Course is meticulously designed to equip professionals with in-depth knowledge of SQL Server's BI capabilities, including data modeling, ETL processes, and advanced analytics. Participants will gain hands-on experience in building robust data warehouses, designing interactive reports, and optimizing SQL Server performance for large-scale BI implementations. With a focus on practical application and real-world scenarios, this course ensures participants are job-ready and capable of driving data-driven decisions in any organizational setting.

Through a structured curriculum, learners will explore advanced SQL querying, data integration with SSIS, data analysis using SSAS, and dynamic reporting with SSRS. The course leverages case studies and industry best practices to solidify understanding and enhance problem-solving skills. By the end of the program, participants will be proficient in designing, deploying, and managing SQL Server BI solutions that streamline business processes and accelerate strategic decision-making. The training emphasizes trending BI concepts such as cloud integration, AI-driven analytics, and predictive modeling, ensuring relevance in today’s data-centric business landscape.

Programme Curriculum

SQL Server for Business Intelligence Training Course

Introduction

SQL Server for Business Intelligence (BI) is a critical platform for organizations aiming to transform raw data into actionable insights. SQL Server for Business Intelligence Training Course is meticulously designed to equip professionals with in-depth knowledge of SQL Server's BI capabilities, including data modeling, ETL processes,

and advanced analytics. Participants will gain hands-on experience in building robust data warehouses, designing interactive reports, and optimizing SQL Server performance for large-scale BI implementations. With a focus on practical application and real-world scenarios, this course ensures participants are job-ready and capable of driving data-driven decisions in any organizational setting.

Through a structured curriculum, learners will explore advanced SQL querying, data integration with SSIS, data analysis using SSAS, and dynamic reporting with SSRS. The course leverages case studies and industry best practices to solidify understanding and enhance problem-solving skills. By the end of the program, participants will be proficient in designing, deploying, and managing SQL Server BI solutions that streamline business processes and accelerate strategic decision-making. The training emphasizes trending BI concepts such as cloud integration, AI-driven analytics, and predictive modeling, ensuring relevance in today's data-centric business landscape.

Course Objectives

1. Master SQL Server architecture for business intelligence solutions.
2. Design and implement efficient data warehouses and data marts.
3. Develop advanced ETL processes using SQL Server Integration Services (SSIS).
4. Perform multidimensional data analysis with SQL Server Analysis Services (SSAS).
5. Create dynamic, interactive reports using SQL Server Reporting Services (SSRS).
6. Optimize SQL Server performance for BI workloads.
7. Apply best practices for data quality and data governance in BI projects.
8. Integrate BI solutions with cloud platforms for scalable analytics.
9. Use predictive analytics and AI-driven insights for business forecasting.
10. Automate data pipelines to reduce manual intervention and increase efficiency.
11. Implement real-time data analytics solutions for operational decision-making.
12. Troubleshoot and monitor BI environments for optimal performance.
13. Enhance organizational decision-making with actionable BI dashboards.

Organizational Benefits

- Improved decision-making through accurate BI reporting.
- Faster access to critical business insights.
- Enhanced data quality and governance across departments.
- Optimized performance of SQL Server environments.
- Streamlined ETL and data integration processes.
- Scalable BI solutions with cloud integration.
- Reduced operational costs through automated data pipelines.
- Improved forecasting with predictive analytics.
- Real-time monitoring for proactive decision-making.
- Increased employee BI competency and productivity.

Target Audiences

1. Database Administrators seeking BI expertise.
2. Business Intelligence Developers.
3. Data Analysts and Data Scientists.
4. IT Professionals managing enterprise data.
5. Reporting Analysts.
6. Business Managers using BI for decision-making.

7. Data Architects and Solution Designers.
8. Professionals aspiring to lead BI projects.

Course Duration: 5 days

Course Modules

Module 1: Introduction to SQL Server BI

- Overview of SQL Server BI ecosystem
- Components of SQL Server for BI
- Understanding data warehouse architecture
- BI trends and best practices
- Case study: Implementing a BI solution for a retail company
- Hands-on lab: Setting up SQL Server BI environment

Module 2: SQL Server Database Design

- Designing relational databases for BI
- Normalization and denormalization techniques
- Indexing strategies for performance
- Data integrity and constraints
- Case study: Database design for a sales reporting system
- Hands-on lab: Creating optimized tables and relationships

Module 3: ETL with SSIS

- Introduction to SQL Server Integration Services
- Data extraction from multiple sources
- Transformation techniques for data cleansing
- Loading data into data warehouses
- Case study: ETL workflow for a financial company
- Hands-on lab: Building ETL packages with SSIS

Module 4: Data Analysis with SSAS

- Introduction to multidimensional and tabular models
- Creating cubes and dimensions
- Implementing calculated measures and KPIs
- Advanced DAX queries for analysis
- Case study: Sales performance analysis using SSAS
- Hands-on lab: Designing and deploying a cube

Module 5: Reporting with SSRS

- Introduction to SQL Server Reporting Services
- Designing interactive reports and dashboards
- Implementing drill-down and drill-through reports
- Parameterized reporting and subscriptions
- Case study: Interactive dashboard for marketing analytics
- Hands-on lab: Creating and publishing SSRS reports

Module 6: Data Governance and Security

- Implementing role-based security in SQL Server
- Data privacy and compliance considerations
- Auditing and monitoring data access
- Metadata management and documentation
- Case study: Securing BI environment for healthcare data
- Hands-on lab: Configuring security roles and policies

Module 7: Performance Tuning for BI

- Query optimization techniques
- Index maintenance and partitioning strategies
- Monitoring performance with SQL Server tools
- Troubleshooting slow-running reports and ETL jobs
- Case study: Optimizing BI solution for a logistics company
- Hands-on lab: Implementing performance improvements

Module 8: Advanced BI Concepts and Cloud Integration

- Integrating SQL Server BI with Azure and cloud services
- Real-time analytics and streaming data
- Predictive analytics and AI insights
- BI automation and scheduling best practices
- Case study: Cloud-based BI deployment for an e-commerce company
- Hands-on lab: Implementing cloud BI solutions

Training Methodology

- Interactive instructor-led sessions with real-time demonstrations
- Hands-on labs for practical learning and skill reinforcement
- Case studies from multiple industries for contextual understanding
- Group discussions and problem-solving exercises
- Quizzes and assessments to track learning progress
- Access to training materials and reference guides for post-training use

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

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com