# Azure SQL 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

Azure SQL for Business Intelligence Training Course is a comprehensive program designed to empower professionals with the knowledge and skills required to leverage Microsoft Azure SQL for business intelligence solutions effectively. This course provides an in-depth understanding of cloud-based data management, advanced analytics, and performance optimization techniques. Participants will gain hands-on experience with Azure SQL Database, Data Warehousing, and integration with Power BI to transform raw data into actionable insights.

With the exponential growth of cloud computing and business intelligence adoption, organizations are increasingly seeking professionals who can bridge the gap between data storage and analytics. This course equips learners with the latest tools, strategies, and industry best practices to implement scalable BI solutions, optimize query performance, and enhance decision-making processes. Participants will also explore real-world case studies to reinforce practical application and ensure workplace readiness.

## Programme Curriculum

**Azure SQL for Business Intelligence Training Course**

**Introduction**

Azure SQL for Business Intelligence Training Course is a comprehensive program designed to empower professionals with the knowledge and skills required to leverage Microsoft Azure SQL for business intelligence solutions effectively. This course provides an in-depth understanding of cloud-based data management, advanced analytics, and performance optimization techniques. Participants will gain hands-on experience with Azure SQL Database, Data Warehousing, and integration with Power BI to transform raw data into actionable insights.

With the exponential growth of cloud computing and business intelligence adoption, organizations are increasingly seeking professionals who can bridge the gap between data storage and analytics. This course equips learners with the latest tools, strategies, and industry best practices to implement scalable BI solutions, optimize query performance, and enhance decision-making processes. Participants will also explore real-world case studies to reinforce practical application and ensure workplace readiness.

**Course Objectives**

1. Understand the fundamentals of Azure SQL Database and its BI applications.
2. Design and implement data warehouses using Azure SQL for optimized performance.
3. Integrate Azure SQL with Power BI for advanced data visualization.
4. Perform data modeling and transformation using Azure Data Factory.
5. Apply performance tuning and query optimization techniques.
6. Implement security and compliance features in Azure SQL environments.
7. Automate data workflows and reporting using Azure Logic Apps.
8. Explore real-time analytics and streaming data integration.
9. Utilize Azure Synapse Analytics for enterprise-level BI solutions.
10. Develop predictive analytics models leveraging Azure Machine Learning.
11. Apply data governance and auditing in cloud-based BI systems.
12. Troubleshoot and monitor Azure SQL Database for maximum uptime.
13. Gain hands-on experience through real-world case studies and projects.

**Organizational Benefits**

- Accelerate data-driven decision-making capabilities.
- Reduce infrastructure costs with scalable cloud solutions.
- Improve data accuracy and reporting efficiency.
- Enhance business intelligence capabilities across departments.
- Strengthen compliance and data governance practices.
- Increase productivity through automation and integration.
- Enable predictive insights for strategic planning.
- Optimize query and reporting performance.
- Improve collaboration between IT and business teams.
- Build a skilled workforce for enterprise BI initiatives.

**Target Audiences**

- Business Intelligence Analysts
- Data Engineers
- Database Administrators
- Cloud Solution Architects
- IT Managers
- Reporting Analysts
- Data Scientists
- Developers working with Azure SQL

**Course Duration:** 5 days

**Course Modules**

**Module 1: Introduction to Azure SQL for BI**

- Overview of Azure SQL Database and BI capabilities
- Cloud computing fundamentals for data professionals
- Understanding relational vs. non-relational databases
- Benefits of Azure SQL in modern BI solutions
- Key Azure services integrated with SQL
- Case Study: Migrating an on-premise SQL Server to Azure SQL

**Module 2: Data Modeling and Warehousing**

- Concepts of data modeling for BI applications
- Designing star and snowflake schemas in Azure SQL
- Data normalization and denormalization techniques
- Implementing data warehousing best practices
- Optimizing storage and query performance
- Case Study: Building a sales data warehouse in Azure SQL

**Module 3: ETL and Data Integration**

- Extract, Transform, Load (ETL) fundamentals
- Using Azure Data Factory for data pipelines
- Integrating diverse data sources into Azure SQL
- Managing incremental data loads
- Automating ETL workflows for BI reporting
- Case Study: Integrating marketing and sales data using Data Factory

**Module 4: Advanced Querying and Optimization**

- Writing efficient SQL queries for large datasets
- Indexing strategies and query performance tuning
- Using execution plans to diagnose bottlenecks
- Partitioning and sharding in Azure SQL
- Implementing caching and in-memory techniques
- Case Study: Optimizing query performance for a retail BI dashboard

**Module 5: Security and Compliance**

- Authentication and role-based access control
- Data encryption and masking techniques
- Ensuring compliance with GDPR and HIPAA
- Implementing auditing and monitoring
- Security best practices for Azure SQL environments
- Case Study: Securing financial data in Azure SQL

**Module 6: Integrating with Power BI**

- Connecting Azure SQL to Power BI for real-time dashboards
- Creating interactive reports and visualizations
- Using DAX for advanced calculations
- Scheduled refresh and data gateway setup
- Performance optimization in Power BI reports
- Case Study: Designing executive dashboards for decision-making

**Module 7: Advanced Analytics and Predictive Models**

- Introduction to predictive analytics in Azure
- Using Azure Machine Learning with SQL data
- Data preprocessing for predictive modeling
- Building and deploying predictive models
- Evaluating model performance and accuracy
- Case Study: Predicting customer churn using Azure SQL and ML

**Module 8: Monitoring, Troubleshooting, and Automation**

- Monitoring Azure SQL performance and health
- Troubleshooting common database issues
- Automating workflows with Azure Logic Apps
- Scheduling tasks and alert notifications
- Disaster recovery and backup strategies
- Case Study: Implementing automated reporting and alert system

**Training Methodology**

- Interactive instructor-led sessions with real-time demonstrations
- Hands-on labs and practical exercises in Azure environment
- Real-world case studies to reinforce conceptual knowledge
- Group discussions and collaborative problem-solving activities
- Quizzes and assessments to track progress
- Access to sample datasets and BI projects for practice

**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