MySQL 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

MySQL for Business Intelligence Training Course is designed to empower data analysts, business intelligence professionals, and IT specialists with advanced skills to extract, manipulate, and analyze data for actionable business insights. With the growing importance of data-driven decision-making, proficiency in MySQL has become a critical competency for organizations seeking to maximize operational efficiency and strategic performance. Participants will gain hands-on experience in database design, query optimization, and integration with BI tools, equipping them to transform raw data into meaningful business intelligence.

This course emphasizes practical learning through real-world case studies, ensuring participants not only understand the theoretical concepts but can also implement them effectively in diverse organizational environments. By leveraging MySQL for BI, participants will improve reporting accuracy, automate data workflows, and enhance predictive analytics capabilities, positioning themselves as essential contributors to data-driven decision-making processes.

Programme Curriculum

MySQL for Business Intelligence Training Course

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environments. By leveraging MySQL for BI, participants will improve reporting accuracy, automate data workflows, and enhance predictive analytics capabilities, positioning themselves as essential contributors to data-driven decision-making processes.

Course Objectives

1. Understand MySQL architecture and database fundamentals.
2. Develop efficient SQL queries for business intelligence reporting.
3. Design and optimize relational databases for performance.
4. Implement advanced joins, subqueries, and indexing strategies.
5. Utilize aggregate functions and stored procedures for data analytics.
6. Integrate MySQL with BI tools such as Tableau, Power BI, and Looker.
7. Perform data cleansing, transformation, and ETL processes.
8. Apply data modeling techniques for multidimensional analysis.
9. Monitor database performance and troubleshoot common issues.
10. Enhance reporting and visualization with dynamic dashboards.
11. Implement security best practices for data protection.
12. Understand real-world BI use cases across industries.
13. Prepare for advanced BI certifications with MySQL expertise.

Organizational Benefits

- Improved decision-making with accurate data insights.
- Faster and optimized database performance.
- Streamlined reporting and business analytics workflows.
- Reduced errors in data management and reporting.
- Enhanced employee data literacy and technical capabilities.
- Better integration between BI tools and data sources.
- Support for predictive analytics and strategic planning.
- Cost savings through optimized database operations.
- Strengthened data governance and compliance.
- Increased ROI on BI initiatives and technology investments.

Target Audiences

1. Data Analysts
2. Business Intelligence Professionals
3. Database Administrators
4. Data Engineers
5. IT Specialists
6. BI Consultants
7. Business Managers seeking data-driven insights
8. Professionals preparing for BI certification exams

Course Duration: 5 days

Course Modules

Module 1: Introduction to MySQL for BI

- Overview of MySQL and its role in business intelligence

- Understanding relational databases and schemas
- Introduction to BI concepts and analytics workflow
- Installation and configuration of MySQL server
- Exploring MySQL Workbench for database management
- Case Study: Setting up a MySQL database for sales reporting

Module 2: SQL Query Fundamentals

- Writing basic SELECT, INSERT, UPDATE, DELETE queries
- Using WHERE clauses and filtering data efficiently
- Understanding operators and conditional statements
- Sorting and grouping data for analysis
- Introduction to SQL functions and expressions
- Case Study: Extracting customer insights from transaction data

Module 3: Advanced SQL Techniques

- Implementing complex joins and subqueries
- Using UNION, INTERSECT, and EXCEPT for data consolidation
- Indexing strategies to improve query performance
- Writing stored procedures and functions
- Triggers and event handling in MySQL
- Case Study: Optimizing a product inventory database

Module 4: Data Modeling for BI

- Introduction to conceptual, logical, and physical models
- Designing normalized and denormalized tables
- Understanding primary keys, foreign keys, and relationships
- Implementing star and snowflake schemas for BI
- ER diagrams and data mapping for analytical purposes
- Case Study: Building a data warehouse for retail analytics

Module 5: ETL and Data Transformation

- Understanding ETL process for BI systems
- Data extraction from multiple sources
- Data cleansing and validation techniques
- Transforming data for reporting and analysis
- Loading data into MySQL for BI purposes
- Case Study: ETL workflow for financial data consolidation

Module 6: Performance Optimization

- Query optimization techniques and best practices
- Using EXPLAIN to analyze query performance
- Indexing and partitioning for large datasets
- Optimizing joins and subqueries for efficiency
- Database caching strategies
- Case Study: Enhancing performance for a high-volume sales database

Module 7: Integration with BI Tools

- Connecting MySQL with Tableau, Power BI, and Looker
- Data visualization best practices
- Building interactive dashboards
- Creating calculated fields and metrics
- Scheduling automated BI reports
- Case Study: Dashboard creation for executive reporting

Module 8: Security, Backup, and Maintenance

- Implementing user roles and permissions
- Data encryption and secure access policies
- Backup and recovery strategies
- Monitoring database health and logs
- Troubleshooting common issues
- Case Study: Securing sensitive HR data in MySQL

Training Methodology

- Instructor-led interactive sessions
- Hands-on exercises with real-world datasets
- Live demonstrations and query walkthroughs
- Group activities for problem-solving and discussion
- Practical case studies to reinforce learning
- Assessments and feedback sessions to track progress

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

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