SQL for Logistics Data Training Course

Professional Development Training Course Outline

Category	Logistics and Supply Chain Management	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today's rapidly evolving logistics and supply chain industry, the ability to efficiently manage, analyze, and interpret data has become a critical success factor. SQL for Logistics Data Training Course equips professionals with the essential skills to extract, manipulate, and analyze large datasets, enabling informed decision-making and operational excellence. Participants will gain hands-on experience in SQL queries, database management, and advanced reporting techniques, ensuring they can leverage data to optimize logistics processes, improve inventory management, and enhance delivery performance. This course is designed for logistics analysts, supply chain managers, and data enthusiasts who want to bridge the gap between raw data and actionable insights using SQL.

The course emphasizes practical applications in logistics scenarios, including transportation planning, warehouse management, and inventory optimization. Through interactive exercises, real-world case studies, and step-by-step guidance, learners will develop the confidence to transform complex data into strategic insights. By mastering SQL for logistics, organizations can achieve greater efficiency, reduce operational costs, and maintain a competitive edge in the global supply chain ecosystem. This training fosters a data-driven culture, empowering employees to make evidence-based decisions that drive business growth and customer satisfaction.

Programme Curriculum

SQL for Logistics Data Training Course

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Course Objectives

1. Understand the fundamentals of SQL and relational databases for logistics data management
2. Learn to write basic and advanced SQL queries for data extraction and analysis
3. Develop proficiency in filtering, sorting, and aggregating logistics datasets
4. Implement joins, subqueries, and nested queries for comprehensive data insights
5. Design and maintain database structures relevant to logistics operations
6. Analyze inventory, transportation, and warehouse data using SQL
7. Optimize query performance and ensure data integrity in logistics databases
8. Integrate SQL with reporting tools for actionable dashboards and analytics
9. Apply SQL in real-world logistics scenarios for decision-making
10. Perform data cleaning, validation, and transformation in logistics datasets
11. Explore advanced SQL functions and procedures for predictive analysis
12. Understand best practices in database security and access management
13. Develop problem-solving skills for complex logistics data challenges

Organizational Benefits

1. Improved data-driven decision-making capabilities
2. Enhanced inventory and warehouse management
3. Optimized transportation and delivery processes
4. Reduced operational costs and errors
5. Faster reporting and analytics for strategic planning
6. Increased employee productivity and efficiency
7. Strengthened data governance and security
8. Streamlined supply chain operations
9. Enhanced customer satisfaction through accurate logistics data
10. Competitive advantage through analytics-driven insights

Target Audiences

1. Logistics Analysts

2. Supply Chain Managers
3. Warehouse Supervisors
4. Transportation Coordinators
5. Inventory Managers
6. Data Analysts
7. Operations Managers
8. IT Professionals supporting logistics systems

Course Duration: 5 days

Course Modules

Module 1: Introduction to SQL and Databases

- Overview of relational databases and logistics applications
- SQL syntax and basic commands
- Understanding tables, fields, and records
- Data types and constraints
- Case Study: Inventory database setup

Module 2: Data Retrieval Techniques

- SELECT statements for logistics data
- Filtering records using WHERE clause
- Sorting data with ORDER BY
- Limiting data using TOP and LIMIT
- Case Study: Extracting shipment records

Module 3: Advanced Querying

- Joins: INNER, LEFT, RIGHT, FULL OUTER
- Subqueries and nested queries
- Using aliases and calculated fields
- Combining multiple conditions with AND/OR
- Case Study: Combining supplier and shipment data

Module 4: Aggregation and Grouping

- SUM, AVG, COUNT functions
- GROUP BY and HAVING clauses
- Analyzing logistics metrics
- Creating summary reports
- Case Study: Warehouse stock level analysis

Module 5: Data Modification and Management

- INSERT, UPDATE, DELETE operations
- Maintaining data integrity
- Transaction management
- Handling duplicates and missing data
- Case Study: Updating inventory after delivery

Module 6: SQL Functions and Procedures

- Built-in SQL functions for logistics data
- Creating stored procedures for recurring queries
- Using triggers for automated updates
- Optimizing queries for performance
- Case Study: Automated reorder alerts

Module 7: SQL Integration with Reporting Tools

- Linking SQL databases with reporting software
- Generating dashboards and charts
- Automating routine reports
- Best practices in reporting logistics data
- Case Study: Dashboard for transportation performance

Module 8: Advanced Logistics Analytics with SQL

- Predictive analysis using SQL queries
- Forecasting inventory and shipment trends
- Identifying bottlenecks in logistics processes
- Data-driven decision-making strategies
- Case Study: Predictive stock replenishment

Training Methodology

- Interactive lectures with practical demonstrations
- Hands-on exercises with real logistics datasets
- Group discussions to reinforce learning
- Step-by-step guided SQL query development
- Case study analysis for real-world application
- Continuous feedback and assessment 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

Start Date	End Date	Location	Price
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