

Certificate of participation

Issued to : Tanja DOUCIN

Title of the course :

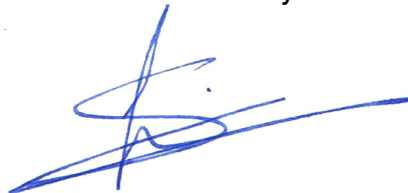
Database using SQL, relational databases

Date of the course : from 17.02.2025 to 20.02.2025

Hours of training : 20 (100 %)

Attendance rate : 100 %

Esch-sur-Alzette: 24 February 2025



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Database using SQL, relational databases

Content:

Introduction to Databases
Relational Databases and Representation with UML
Creating and Deleting a Database
Creating, Deleting, and Altering Tables
Constraints
Operators
Retrieving Data Based on Conditions and Updating Data in Tables
Aggregate Functions
Joining Tables
Limiting Data
Connecting Our Program to the Database and Interacting with it



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Learning Outcomes:

- Represent a relational database using UML diagrams.
- Create a relational database from scratch.
- Manipulate data by updating information based on specific conditions.
- Use aggregate functions to analyze data with additional conditions.
- Connect a program (using C or C++) to a database to manipulate data.
- Apply constraints to define rules for data integrity.
- Retrieve data from multiple tables using different querying techniques.



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