

**BD202**

DATABASES

# Advanced SQL Programming for programmers

 Laboratory course  Top pick**DURATION**  
**2 DAYS****REGULAR FEE**  
**955 \$****PREFERENTIAL FEE**  
**860 \$**

## Objectives

To provide the knowledge and skills required to optimize SQL requests in order to significantly improve application performance.

## Targeted audience

Programmers.

## Prerequisite

Knowledge of [conceptual data modeling](#) (Course BD101) and [SQL syntax](#) (Course BD102).

## Content

- Review of relational database design and normalization
- Problems related to collation
- The importance of table and column sizing
- Operations on tables: DELETE, INSERT, UPDATE
- The SELECT query and joins
- Sargable vs nonsargable queries
- Optimizing predicates: LIKE, BETWEEN, IN, NOT IN, EXISTS and INTERSECT
- Operations on groups (GROUP BY and correlated subqueries)
- Aggregation functions
- Auxiliary tables
- Handling views and temporary tables
- Optimizing subqueries and group operations
- The judicious use of indexes (for sorting and querying)
- Code optimization
- Cursors: when to use them and how to avoid them
- Triggers
- Presentation of some advanced techniques

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<http://www.technologie.com/en/information-technology/databases/sql-programmation/advanced-sql-programming/>

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## Select the training date\*

Quebec City	April 22 to April 23 2020
Montreal	June 8 to June 9 2020
Quebec City	September 23 to September 24 2020
Montreal	October 8 to October 9 2020
Montreal	December 14 to December 15 2020
Quebec City	December 16 to December 17 2020