

BD106

DATABASES

Data Warehouse Design

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

Objectives

To provide the knowledge and skills required to identify the main concepts of data warehousing and to make use of effective approaches in designing a data warehouse.

Targeted audience

Business analysts and developers.

Prerequisite

General knowledge of computer science.

Content

- What are data warehouses and why do they exist?
- Architecture of data warehouses and data stores
- Business Intelligence: data mining, data warehousing and data visualization
- Referential/Universal set (metadata)
- Different stages of data warehouse design
- Modeling, and the star, snowflake and galaxy models
- Normalization rules for multidimensional schemas
- Modeling approaches: ascending, descending, mixed
- OLAP techniques (OnLine Analytical Processing): roll-up, drill-down, slice, dice, pivot, drill-through and drill-cross
- ROLAP, MOLAP and HOLAP servers
- Data warehousing applications (ETL, OLAP, etc.)
- Case studies and exercises in multidimensional modeling
- Illustration of various features using the Integration Services and Analysis Services modules in MS SQL Server

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<http://www.technologia.com/en/information-technology/databases/basic-and-advanced-concepts/data-warehouse-design/>

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Quebec City	November 7 to November 8 2019