



# SQL Training, Conceptual Data Modeling

## Introduction to SQL training

Definition of a database

Definition of a Database Management System

Define a relational model

Presentation of different SQL languages: LID, DML, LDD

## Module 1: Course on LID

SELECT FROM  
SELECT WHERE  
SELECT ORDER  
SELECT LIMIT  
SELECT EXPR ...  
SELECT FROM JOIN  
SELECT AGGR GROUP  
SELECT AGGR GROUP HAVING

## Module 2: Course on data manipulation (LMD)

Beginning of the DML  
INSERT  
INSERT SELECT  
MULTI TABLE INSERT  
UPDATE  
UPDATE MULTI TABLE  
DELETE  
DELETE MULTI TABLE

## Module 2: Course on the Basics of Data Definition (DDL)

CREATE TABLE  
DROP TABLE  
ALTER TABLE

## Module 3: Theory

Indexes and types of indexes

FK constraints

Basic modeling, explanation of normal forms 1, 2 and 3

Natural key versus complex key

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