

# Course: FME Database-mastery

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## Course Description

In this course you will get a deeper insight in working with databases together with FME. Things to keep in mind when working with FME and databases, what FME can do, how to optimize your workflows and much more.

## Prerequisites

- We recommend that you have done the FME Desktop Basic course and have been working with FME for a while. You can create your own workspaces and know all the basic functionality.
- Basic knowledge about relational databases is a plus.
- Basic knowledge about SQL is a plus but not required.

## Required Materials

- To participate in this course you will require a laptop that can use remote desktop to connect to a virtual machine.
- Sweco will provide virtual machines with all software, licenses and data installed.

## Course Objectives

1. Adding databases to FME.
  - Webconnections
  - Embedded connections.
2. Reading from databases.
  - Traditional readers with parameters.
  - FeatureTypes with parameters.
3. Writing to databases.
  - Creating new tables and advanced schema definitions.
  - Using existing tables and schema definitions.
4. SQLCreators.
  - What does the SQLCreator do.
  - When to use SQLCreators.
  - Writing code and exposing the right attributes using the SQLCreator.
  - Advanced coding in the SQLCreator.
5. SQLExecutors.
  - What does the SQLExecutor do.
  - When to use SQLExecutor.
  - Writing code and exposing the right attributes using the SQLExecutor.
  - Advanced coding in the SQLExecutor.
6. Database transformers.
  - The DatabaseJoiner.
  - The DatabaseDeleter.
  - The DatabaseUpdater.

## Course Structure

The course will exist of both lectures and hands-on exercises. In general the instructor will explain the theory and functions behind the current content. After which exercises will be used to put the newly gained knowledge into practice. Due to the diversity in databases a list of several database types will be provided and the user can choose on which one to work. The exercises themselves will be the same for each database type to ensure all database types grant the same expertise level.