GIS (GEOGRAPHIC INFORMATION SYSTEM): CREATING AND MANAGING RELATIONAL DATABASES

📅 *Dates and duration to be agreed*

📍 *Location to be agreed*

Contact us for a customised quote

⚙️ THE + OF YOUR TRAINING

- - The GIS software used throughout the training session will be chosen in accordance with the practices and requirements of the department.

👥 CONCERNED AUDIENCE

Prerequisites:

- This training session is intended for people who have already mastered the basic features of GIS. If not the training course : "GIS: data acquisition and processing" is strongly recommended to be delivered first.

❓ GOOD TO KNOW

- This training session will be mainly organised around practical computer work.
- Exemple de programme réalisable en 5 jours

◎ OBJECTIVES

- Master the design of relational databases.
- Master the techniques of interfacing between relational databases and GIS applications.

▶ PEDAGOGICAL PROGRAMME

Module 1
The relational model
- Notions of tables, keys and relationships.
- Data models (CDM, LDM, relational model).
- Queries, forms, reports.
- Setting up method.

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Module 2
Designing a relational database
- Designing a simple database.
- Excel implementation in Access.
- Creating tables, keys, links, and forms, and entering data.
- Defining SQL queries in Access.
- Table creation queries, calculated fields.

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Module 3
Links between the database and the GIS
- Creating instant forms.
- Linking GIS and databases: joins.
- Cartographic representation of data taken from Access.
- Procedures to connect to a remote database, such as ACCESS with QGIS.
- Mapping the indicators of an ACCESS table or queries.

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❓ **Prerequisites :**   Have held or currently hold a position related to the training theme