

# 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



## OBJECTIVES

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



## 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



## 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