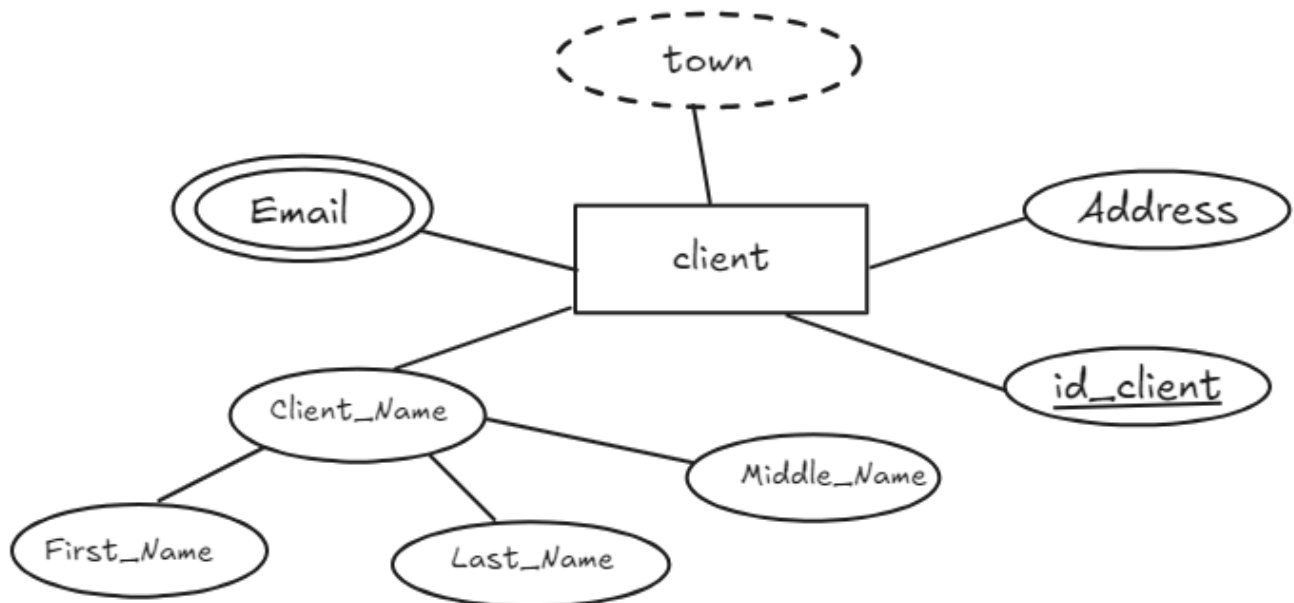


## Tutorial 5

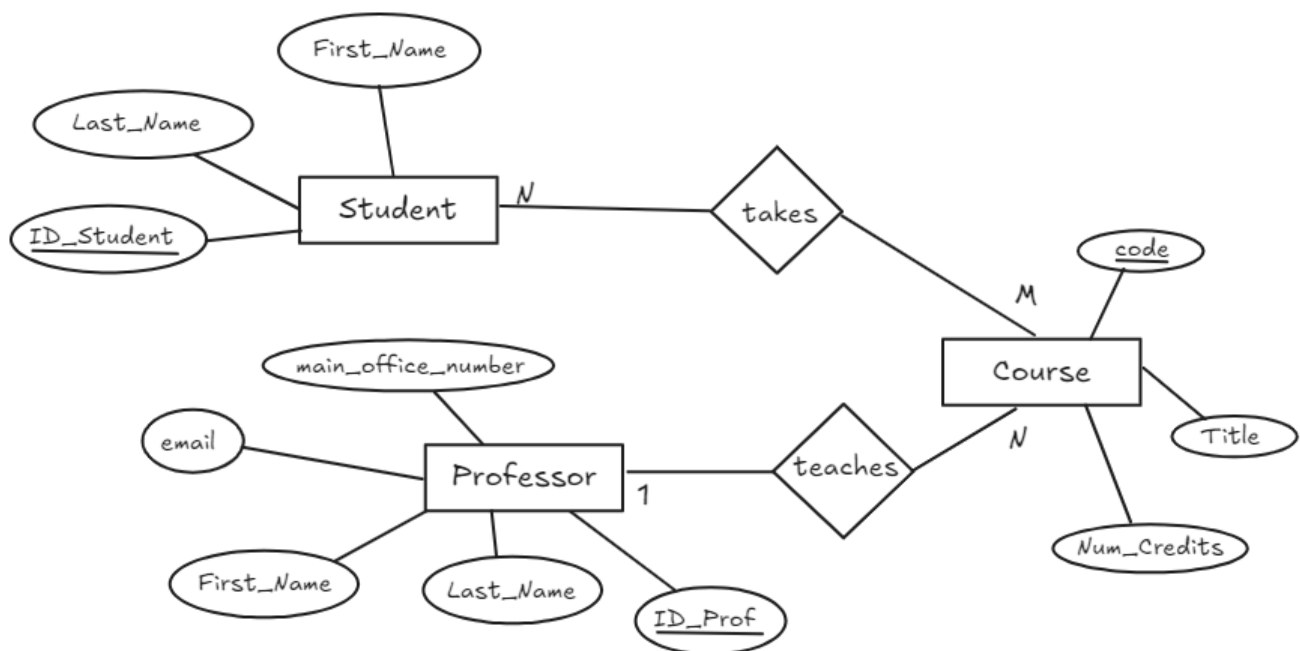
### Exercise 1

- Given the ERD below describing the entity "client", give its corresponding representation in the Relational Model.



### Exercise 2

- Given the ERD described below, deduce the corresponding **Relational Model**



## Exercise 3

From the identified entities and relationship of the **exercise 4** of the **tutorial 4** that concerns the design of the database that manages the sales and inventory of a vinyl record store, generate the corresponding ERD of that database.

## Exercise 4

Given the following un-normalized relation about **Project Assignments**:

Inventory(ProductID, WarehouseID, ProductName,  
Category, StockQuantity, WarehouseAddress, SupplierID, SupplierName, SupplierPhone)

- we suppose that each one product (ProductID) can have one supplier (SupplierID)

1. Determine the **dependency diagram** corresponding to this relation.
2. Transform the relation into its **Third Normal Form (3NF)**.