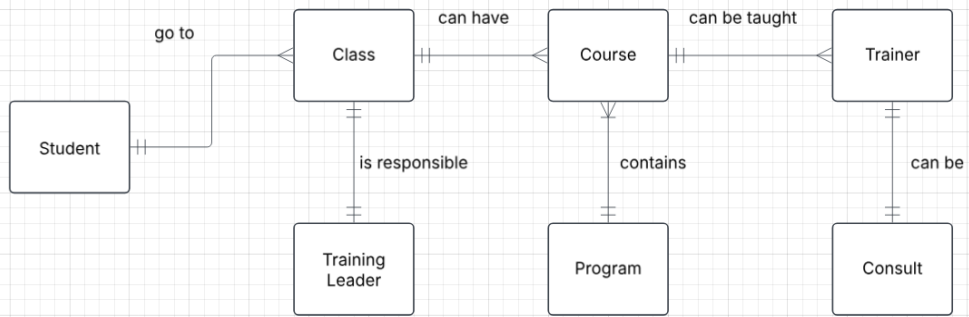


# YrkesCo - Database

Data Modeling





- A program can contain multiple courses.
- A training leader is responsible for one class.

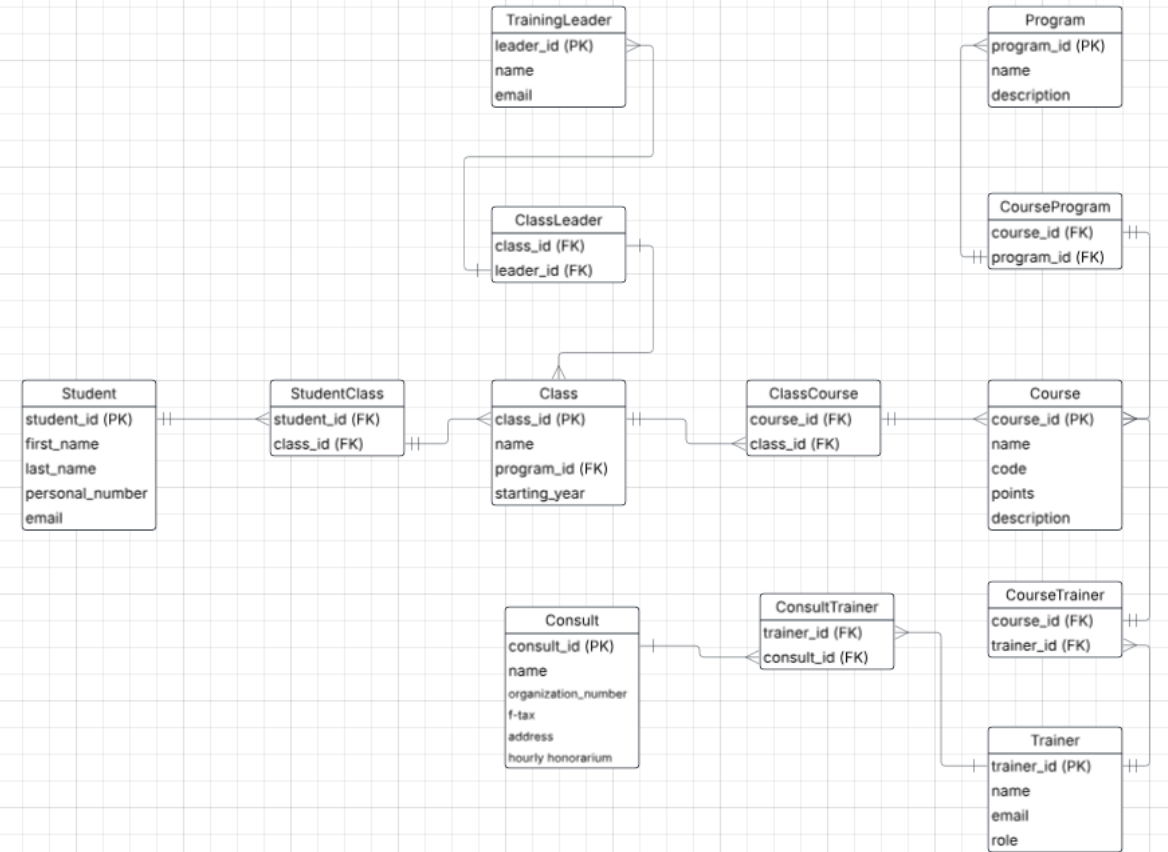
# Conceptual Model

# Logical Model

- Normalized to 3NF
- No transitive dependencies.
- All the tables have a primary key.
- All non-key attributes depend only on the primary key

Example:

Trainer(trainer\_id, name, email, role)



# Physical Model

DBdiagram

SQL structured code

Full code and all the tables in Visual Studio  
Code

```
4      last_name VARCHAR(100) [not null]
5      personal_number CHAR(12)
6      email VARCHAR(255) [unique, not null]
7  }
8
9
10     TABLE Class {
11         class_id SERIAL [primary key]
12         name VARCHAR(30) [not null]
13         program_id INTEGER [not null]
14         starting_year INTEGER [not null]
15     }
16
17
18     TABLE TrainingLeader {
19         leader_id SERIAL [primary key]
20         name VARCHAR(50) [not null]
21         email VARCHAR(255) [unique, not null]
22     }
23
24
25     TABLE Course {
26         course_id SERIAL [primary key]
27         name VARCHAR(30) [not null]
28         code VARCHAR(12) [not null]
29         point INTEGER [not null]
```

# What have we come to with the database?

Organized and managed information about students, courses, programs, etc.