Introduction to Database Systems Olympic Games



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"The most important motivation for the research work that resulted in the relational model was the objective of providing a sharp and clear boundary between the logical and physical aspects of database management."

— Edgar F. Codd, February 1982

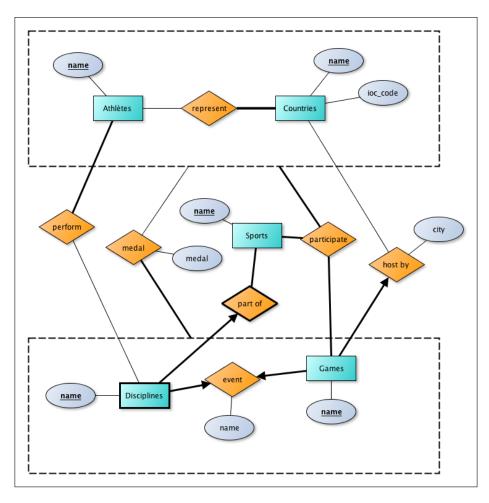
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Introduction

Entityrelationship model



Relational schema and constraints

```
1
   CREATE TABLE Residence (
2
     address
                    char (128) NOT NULL,
3
                     char (20) NOT NULL,
     phone
4
     PRIMARY KEY (address, phone)
5
6
   CREATE TABLE Musician (
7
8
    ssn char (20) NOT NULL,
9
    name
                     char (20),
10
    res_address
                    char (128) NOT NULL,
    res_phone
                     char (20) NOT NULL,
11
12
    PRIMARY KEY (ssn),
13
     FOREIGN KEY (res_address, res_phone) REFERENCES Residence
        ⇒ (address, phone)
       ON DELETE NO ACTION
14
15 ||
```

Listing 3.1: Salut

SQL Data definition language statements

```
CREATE TABLE Residence (
2
     address char (128) NOT NULL,
3
     phone
                      char (20) NOT NULL,
4
     PRIMARY KEY (address, phone)
5
6
7
   CREATE TABLE Musician (
8
                      char (20) NOT NULL,
9
                      char (20),
     name
     res_address char(128) NOT NULL,
10
11
                      char (20) NOT NULL,
     res_phone
12
     PRIMARY KEY (ssn),
13
     FOREIGN KEY (res_address, res_phone) REFERENCES Residence
        ⇒ (address, phone)
14
       ON DELETE NO ACTION
15
```

Listing 4.1: Salut