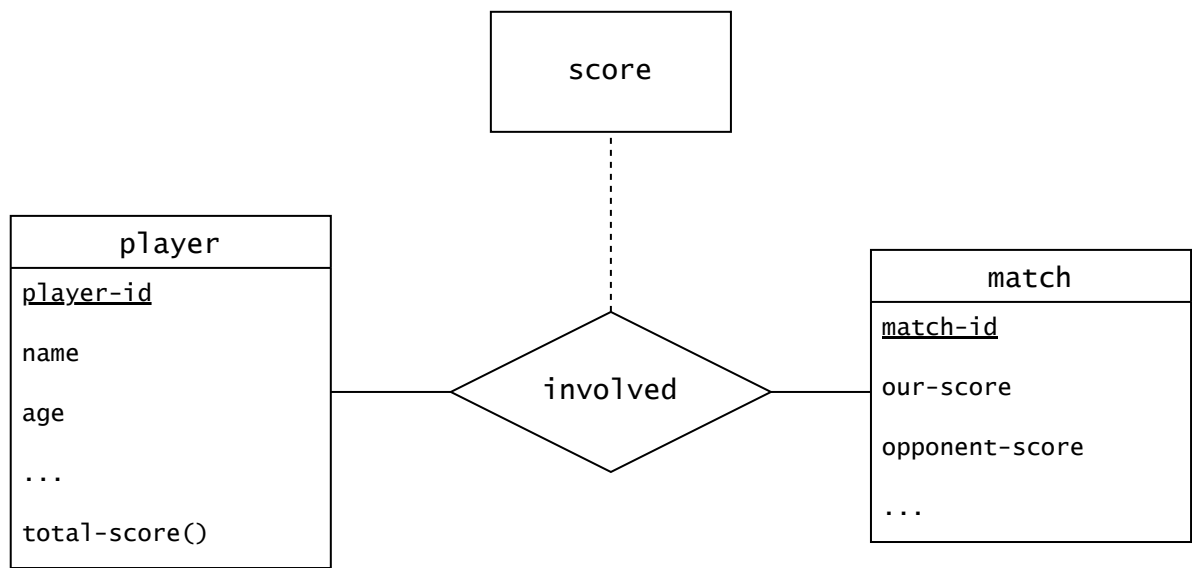


# 数据库概论作业 4

23.11.06

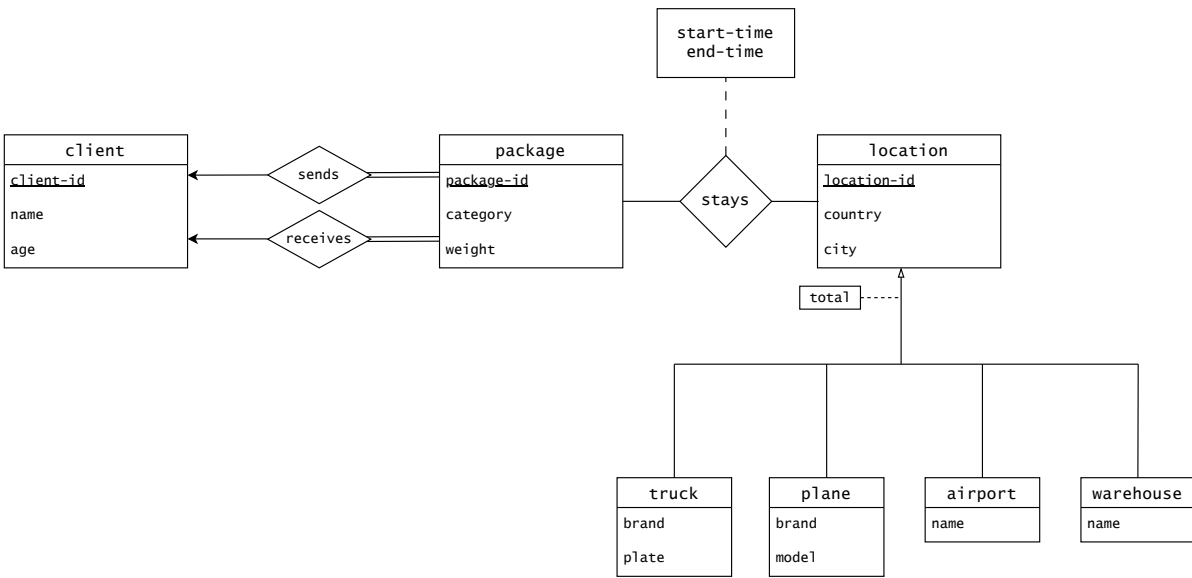
## 7.3



其中 player 的 total-score 属性是该元素参与的所有 involved 关系的 score 之和。

## 7.23

E-R 图:



关系模式:

```
1 create table client (  
2     client-id int,  
3     name varchar(N),  
4     age int,  
5     primary key (client-id)  
6 )  
7  
8 create table package (  
9     package-id int,
```

```
10     category varchar(N),
11     weight int,
12     sender-id int references client,
13     receiver-id int references client,
14     primary key (package-id)
15 )
16
17 create table location (
18     location-id int,
19     country varchar(N),
20     city varchar(N),
21     primary key (location-id)
22 )
23
24 create table stays (
25     package-id int references package,
26     location-id int references location,
27     start-time timestamp,
28     end-time timestamp,
29     primary key (package-id, location-id)
30 )
31
32 create table truck (
33     location-id int references location,
34     brand varchar(N),
35     plate varchar(N),
36     primary key (location-id)
37 )
38
39 create table plane (
40     location-id int references location,
41     brand varchar(N),
42     model varchar(N),
43     primary key (location-id)
44 )
45
46 create table airport (
47     location-id int references location,
48     name varchar(N),
49     primary key (location-id)
50 )
51
52 create table warehouse (
53     location-id int references location,
54     name varchar(N),
55     primary key (location-id)
56 )
```