Relational modelling 2

COMS10012 Software Tools

Turning diagrams into tables
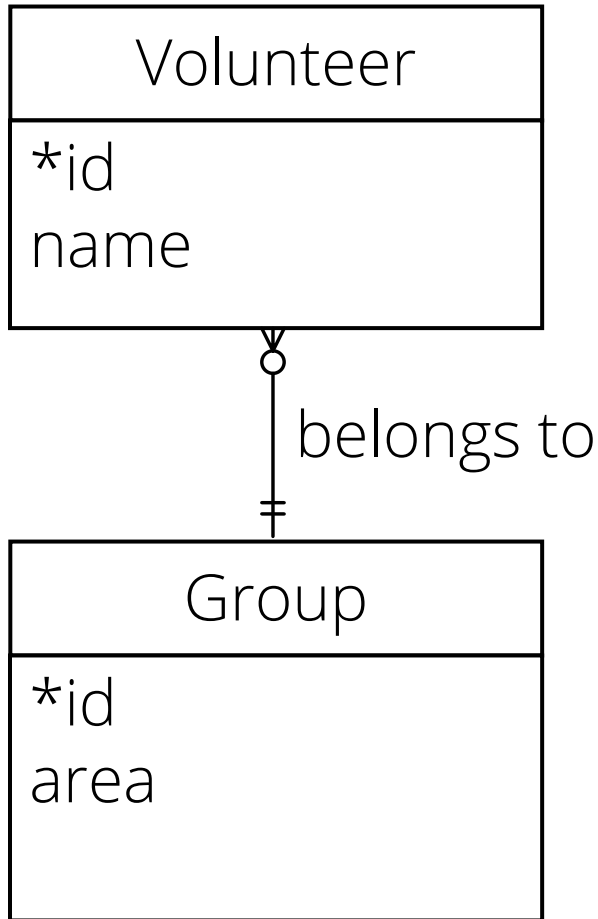
Entities

Volunteer
*id name car

Volunteer		
*id	name	car
1	Fred	no
2	Sam	yes
3	Sarah	no

One-to-many relationships

Volunteer

*id
name

belongs to

Group

*id
area

Volunteer		
*id	name	group
1	Fred	100
2	Sarah	100
3	Sam	101

Group	
*id	area
100	Clifton
101	Redland

One-to-one relationships

```
┌─────────────────────┐
│      Volunteer      │
├─────────────────────┤
│ *id                 │
│ name                │
└─────────────────────┘
          ╫
          │ has
          ╫
┌─────────────────────┐
│      Address        │
├─────────────────────┤
│ *id                 │
│ town                │
│ postcode            │
└─────────────────────┘
```
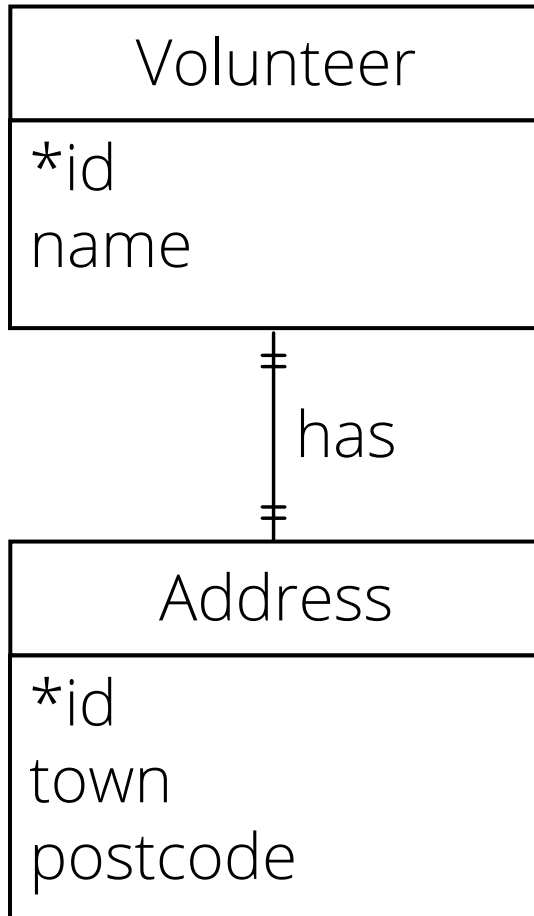
Volunteer		
*id	name	address
1	Fred	100
2	Sarah	101

Address		
*id	town	postcode
100	Bristol	BS8 1UB
101	Bristol	BS6 6HT

Many-to-many relationships
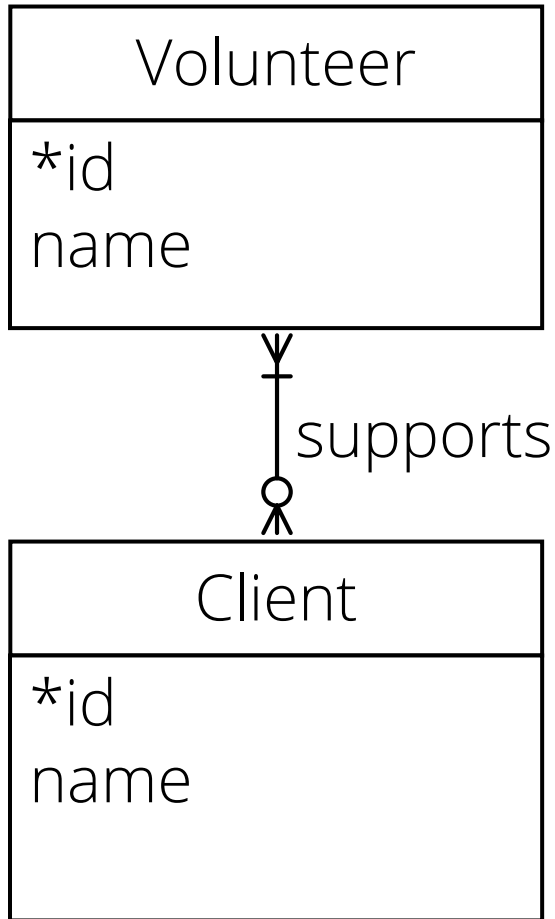
Volunteer	
*id	name
1	Fred
2	Sarah

Client	
*id	name
11	Janet
12	Felicia
13	Archibald

supports	
*volunteer_id	*client_id
1	11
1	13

Volunteer
*id
name

supports

Client
*id
name