Discussion: Personell (1)

- ER-Diagram:

```
Department -> [0, n] work_in [0, 1] Person
```

Realization in the relational model:

```
Create Table Department (  
  DeptNr integer not null primary key)
Create Table Person (  
  PersNr integer not null primary key,  
  DeptNr integer references Department)
```
Discussion: Personell (2)

Additional rule:
In every department at least one person has to work in $([1, N])$

Realization in the relational model:
Additional rule is not possible to express in DDL, has to be put aside and solved e.g. by a trigger; i.e. DDL remains the same as in previous page
Discussion: Personell (3)

- Additional rule:
  - Every person has to work in exactly one department ([1, 1])

Realization in the relational model:

**Create Table Department (**
DeptNr integer not null primary key)

**Create Table Person (**
PersNr integer not null primary key, DeptNr integer not null references Department)