

Functional Dependencies

sname = Student.name
idnr = Student.idnr
login = Student.login
cname = Course.name
code = Course.code
credits = Course.credits
dname = Department.name
dabbreviation = Department.abbreviation
bname = Branch.name
pname = Program.name
pabbreviation = Program.abbreviation
position = WaitingList.position
grade = Taken.grade
capacity = LimitedCourse.capacity
cname = Classification.name

Domain(sname, idnr, login, cname, code, credits, dname, dabbreviation,
bname, pname, pabbreviation, position, grade, capacity, cname)

dname \rightarrow dabbreviation

dabbreviation \rightarrow dname

pname \rightarrow pabbreviation

idnr code \rightarrow position

idnr code \rightarrow grade

code \rightarrow cname

code \rightarrow credits

code \rightarrow capacity

code \rightarrow dname

idnr \rightarrow sname

idnr \rightarrow login

idnr \rightarrow bname

idnr \rightarrow pname

login \rightarrow idnr

position code \rightarrow idnr

Decompose:

1. Attributes:

pname pabbreviation

Keys:

pname

2. Attributes:

login idnr pname bname sname

Keys:

idnr

login (unique)

3. Attributes:

dabbreviation dname

Keys:

dname

dabbreviation (unique)

4. Attributes:

code dabbreviation cname credits capacity

Keys:

code

5. Attributes:

code login position grade

Keys:

code, login

code position (unique)

6. Attributes:

code cname login

Keys:

code, cname, login