D(studentIdnr, studentName, login, branchName, programName, courseCode, courseName, credits, departmentName, capacity, classification, grade, position)

2. FD:s

```
studentIdnr -> studentName
studentIdnr -> login
studentIdnr -> programName
studentIdnr -> branchName

login -> studentIdnr

courseCode -> courseName
courseCode -> capacity
courseCode -> departmentName
courseCode -> credits

{studentIdnr, courseCode} -> position

{courseCode, position} -> studentIdnr

{studentIdnr, courseCode} -> grade
```

3. Decompose with BCNF

We got these 4 tables using the BCNR normalisation tool at http://www.grammaticalframework.org/qconv/

```
1. Attributes:
courseCode courseName credits departmentName capacity
Keys:
courseCode

2. Attributes:
login studentIdnr studentName branchName programName
Keys:
studentIdnr
login
```

3. Attributes:
courseCode position login grade
Keys:
courseCode login
courseCode position

4. Attributes:
courseCode classification position
Keys:
courseCode classification position

R1(courseCode courseName credits capacity departmentName)
R2(studentIdnr login studentName branchName programName)
R3(login courseCode position grade)
R4(login courseCode classification)

4. MVD

courseCode ->-> classification is a multivalued dependency

So the relation R4 should be decomposed into two different relations

Ra(login courseCode)
and
Rb(courseCode classification)