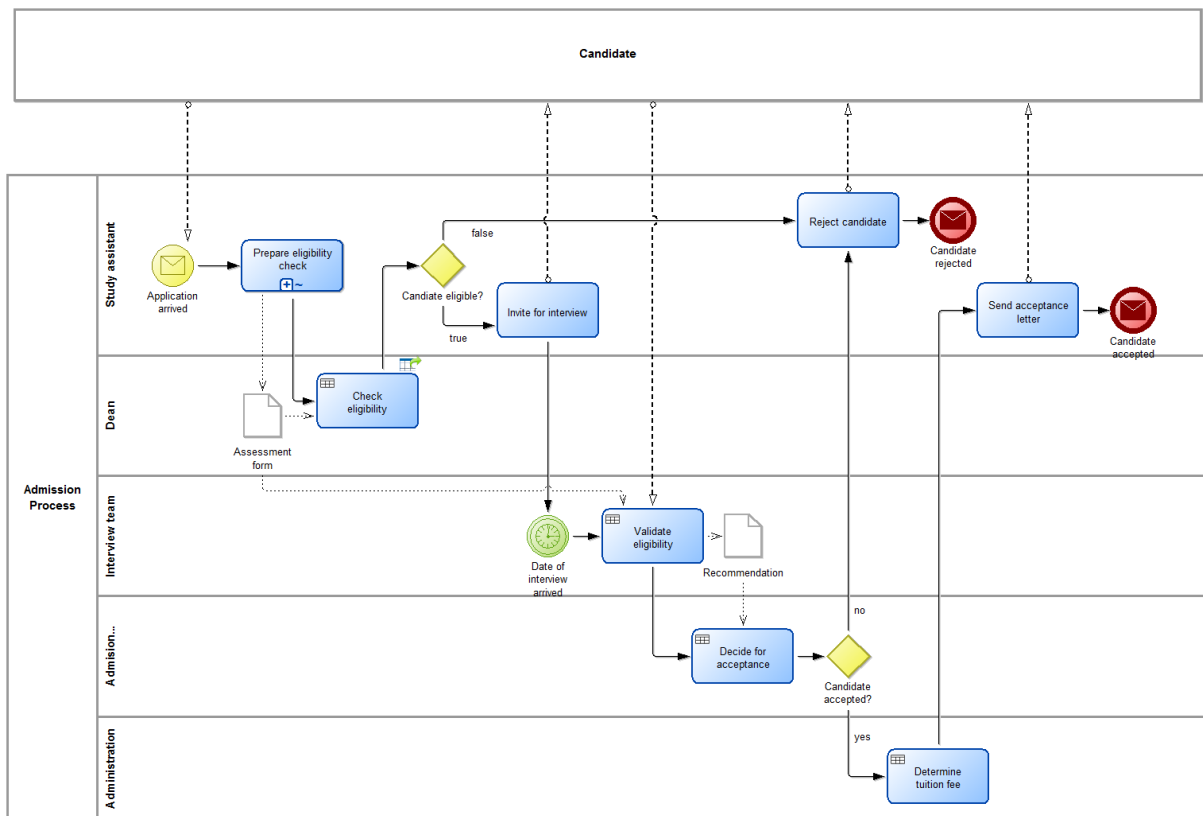# Exercise: Decisions in the Admission Process

This is a model of the admission process to the Msc Business Information Systems.

These are the knowledge-intensive tasks:

- Prepare eligibility check (adhoc, case)
- Check eligibility
- Validate eligibility
- Decide for acceptance
- Determine tuition fee

Three of these tasks are decision tasks:

- Check eligibility
- Decide for acceptance
- Determine tuition fee

Here are descriptions for the decisions to be taken:

Eligibility of the Candidate

Input for this task is the form filled by the study assistant:

MSc Business Information Systems

Candidate Profile

Name: _____

Bachelor Degree in: □ Information Systems
□ Business Administration
□ Information Technology
□ other
□ none

Grade: □ A □ B □ C □ D □ E

University: _____

Accreditation: □ yes □ no □ unclear

Months of professional experience: _____

Citizenship: □ Switzerland
□ EU/EFTA
□ other

The dean of study checks, whether the candidate is eligible. Candidates who do not have a bachelor degree from an accredited university are not eligible. The other candidates are invited for an interview, which is made by the interview team.

Acceptance of the Candidate

Input for this task is the form filled by the study assistant and additional clarifications from the interview, in particular whether the Bachelor degree is equivalent to Information Systems, Bsuienss Administration or Information Technology, and whether the grade and the professional experience are sufficient

Then the admission commission decides whether the candidate is accepted. *The candidate is accepted if she/he has a bachelor degree in Information Systems, Information Technology or Business Administration with at least good grade from an accredited university.*

Tuition Fee

For accepted candidates the administration determines the tuition fee: Swiss and European citizens pay CHF 700. The same is for Non-European students who are residents of Switzerland. Residentship in Switzerland means that the person has residence permit C. Non-European students who are not residents of Switzerland pay CHF 7500.
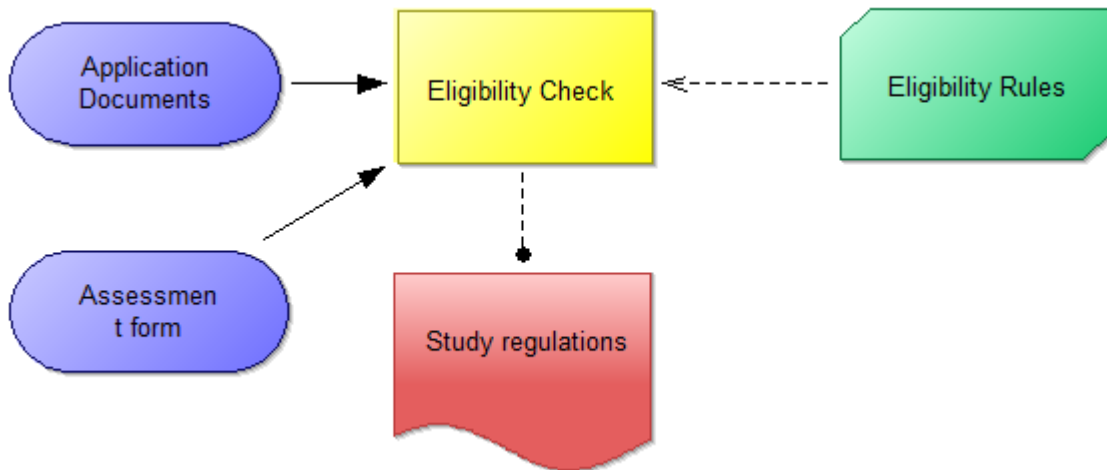
Exercise

Represent the DMN DecisionModel for these Decision Tasks

Solution - DMN

Decision Model Notation for eligibility of the candidate

Eligibility			
FC	Bachelor Degree in	Accreditation	Candidate Eligible
	Information Systems, Business Administration, Information Technology, none, other	*yes, no, unclear*	*true, false*
1	none		false
2		no	false
3	Information Systems	yes	true
4	Business Administration	yes	true
5	Information Technology	yes	true
6	other	yes	true
7	Information Systems	unclear	true
8	Business Administration	unclear	true
9	Information Technology	unclear	true
10	other	unclear	true

Alternatively one could also split the decision table into two tables, which avoids to repeat the different kinds of Bachelor Degrees.
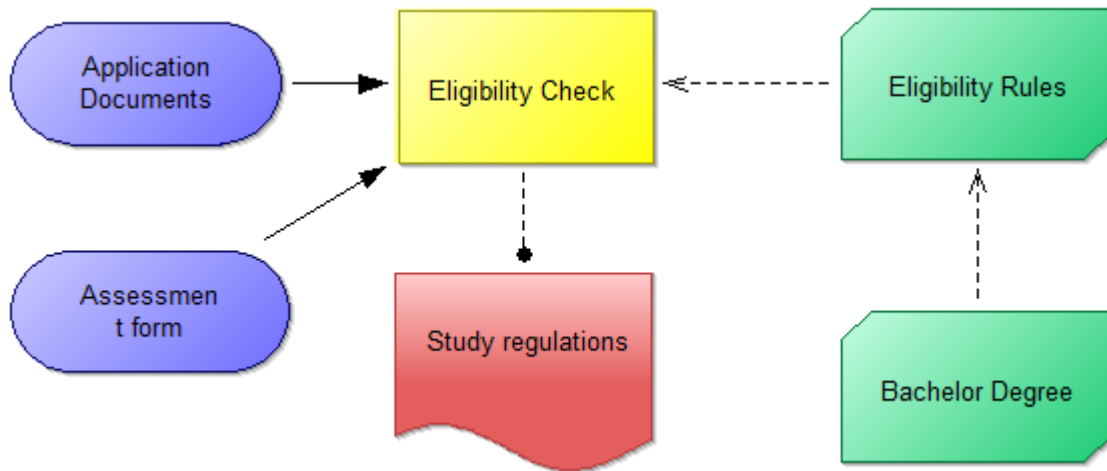

Candidate Eligible

FC	Bachelor Degree	University accredited	Candidate eligible
	yes, no	*yes, no, unclear*	*true, false*
1	yes	yes	true
2	no		false
3		no	false
4	yes	unclear	true

Bachelor Degree

FC	Bachelor Degree in	Bachelor Degree
	Information Systems, Business Administration, Information Technology, other, none	*yes, no*
1	Information Systems	yes
2	Business Administration	yes
3	Information Technology	yes
4	other	yes
5	none	no

Decision Model Notation for acceptance of the candidate
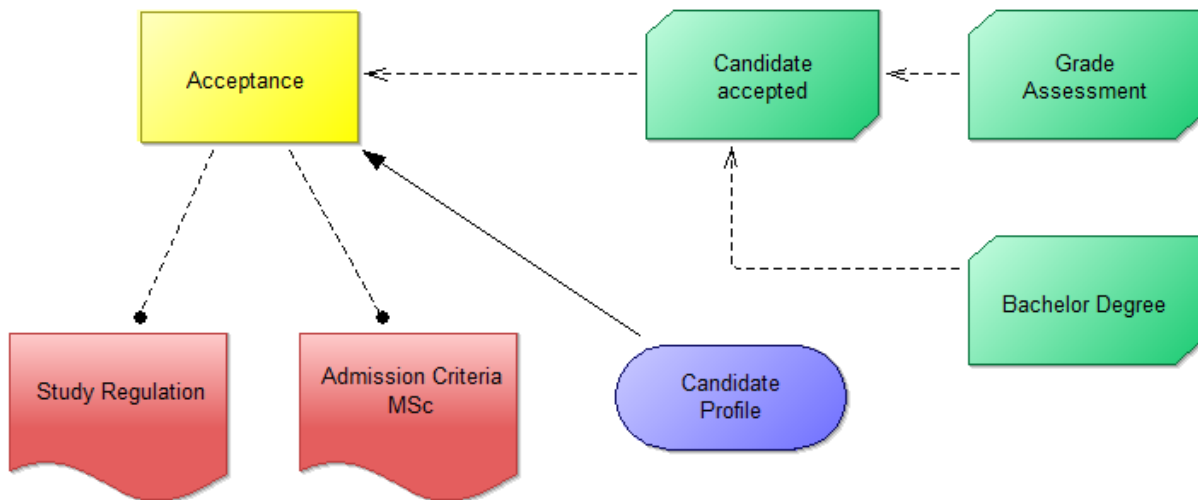
Candidate acceptable

FC	University accredited	Bachelor Degree	Grade assessment	Candidate accepted
	yes, no	*yes, no*	*good, not good*	*yes, no*
1	yes	yes	good	yes
2	no			no
3		no		no
4			not good	no

Bachelor Degree

FC	Bachelor Degree in	Bachelor Degree
	Information Systems, Business Administration, Information Technology, other, none	*yes, no*
1	Information Systems	yes
2	Business Administration	yes
3	Information Technology	yes
4	other	no
5	none	no

	Grade assessment	
FC	Grade	Grade assessment
	A, B, C, D, E	*good, not good*
1	A	good
2	B	good
3	C	not good
4	D	not good
5	E	not good

Decision Model Notation for the tuition fee
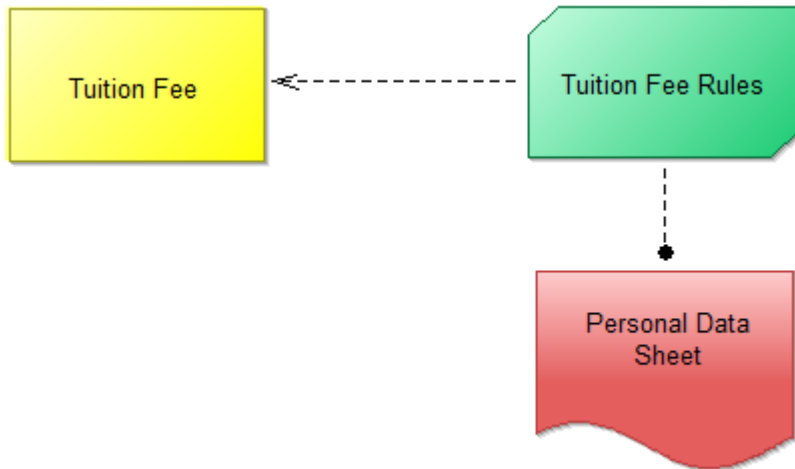
Tuition Fee			
FC	Citizenship	Swiss Residence	Tuition Fee
	Swiss, EU/EFTA, Other		*700, 7500*
1	= Swiss		700
2	= EU/EFTA		700
3	= Other	= C	700
4	= Other	<> C	7500