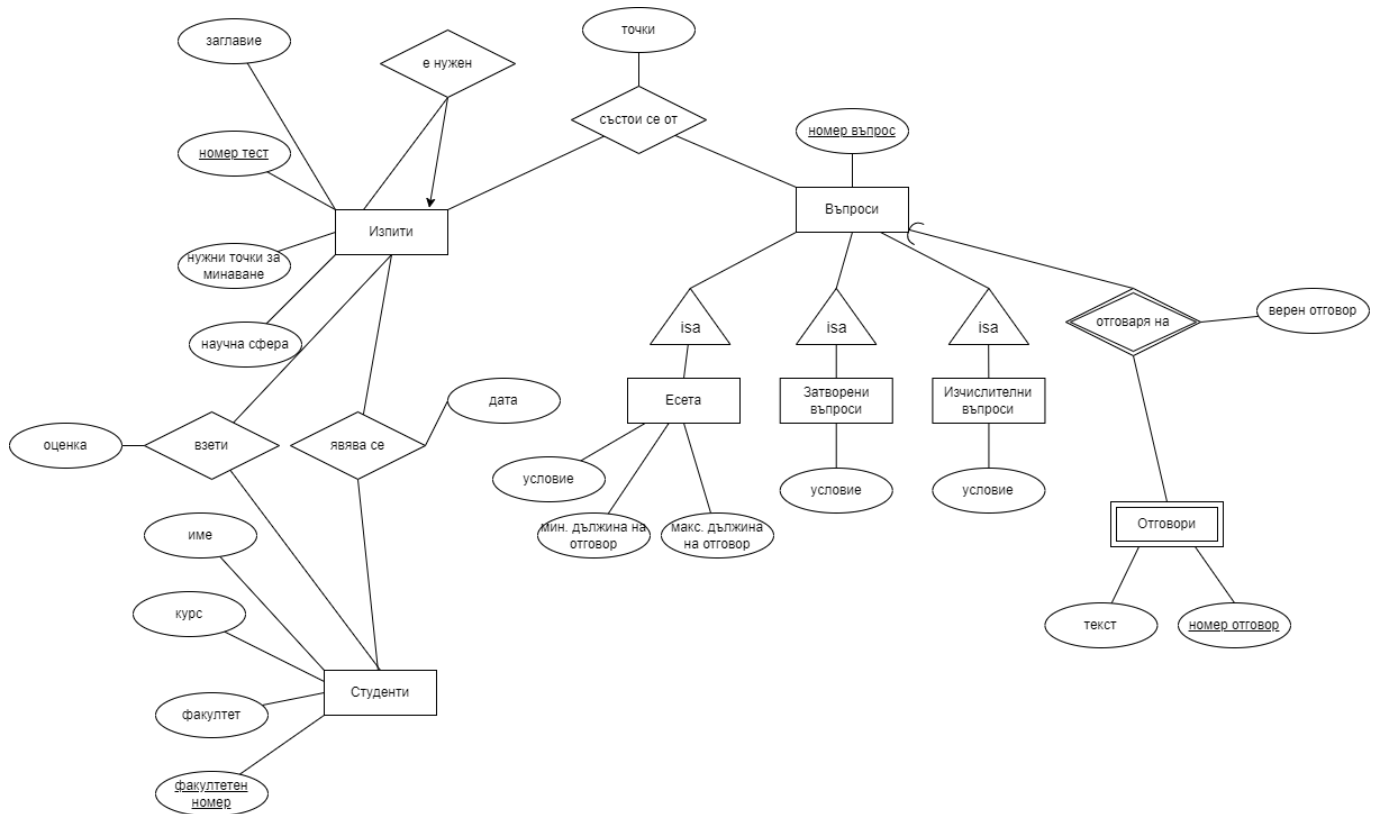


Иван Петров 3M10700035



Students(fn : string(10), name : string(100), faculty : string(100),course : int)

PK: (fn, unique, not null)

CK: (course > 0)

Exams(nexam : int, title : string(100), minpoints : int, field : string(100), needed_nexam : int)

PK: (nexam, unique, not null)

FK: (needed_nexam)

CK: (minpoints > 0)

TakesExams(fn : string(10), nexam : int, date : date)

PK: (fn, nexam, unique, not null)

FK: (fn, nexam)

TakenExams(fn : string(10), nexam : int, grade : decimal)

PK: (fn, nexam, unique, not null)

FK: (fn, nexam)

CK: (grade >= 2)

ConsistsOf(nexam : int, nquestion : int, points : decimal)

PK: (nexam, nquestion , unique, not null)

FK: (nexam, nquestion)

CK: (points >= 0)

Answers(nanswer, text, nquestion, is_right_answer : boolean)

Отговорите са слаби множества

PK: (nanswer, text, nquestion, unique, not null)

FK: (nquestion)

CK: (is_right_answer - 0, 1)

Първи вариант

Questions(nquestion : int)

PK:(nquestion, unique, not null)

Essays(nquestion : int, condition : string(100), min_length : int, max_length : int)

PK:(nquestion, unique, not null)

FK:(nquestion)

CK: (min_length > 0)

CK: (max_length >= min_length)

ClosedQuestions(nquestion : int, condition : string(100))

PK:(nquestion, unique, not null)

FK:(nquestion)

CalculationQuestions(nquestion : int, condition : string(100))

PK:(nquestion, unique, not null)

FK:(nquestion)

Втори вариант

Questions(nquestion : int, condition : string(100), min_length : int, max_length : int)

PK:(nquestion, unique, not null)

CK: (min_length > 0)

CK: (max_length >= min_length)

За въпросите избирам първия вариант заради по-изчистения вид на атрибутите (липсата на много NULL атрибути, които могат да доведат до грешки), ако в бъдеще добавим още атрибути към въпросите.