

```
create table nivo_kvalifikacije (
id_nivoa      smallint  not null,
naziv        varchar(200) not null,
stepen       varchar(10) not null,
primary     key(id_nivoa) );
```

```
create table smer (
id_smera      integer  not null,
oznaka       varchar(10) not null,
naziv        varchar(200) not null,
semestara    smallint  not null with default 6
  constraint chk_semestara check(
    semestara between 1 and 10),
bodovi       smallint  not null with default 180
  constraint chk_bodovi check(
    bodovi between 30 and 300 ),
id_nivoa     smallint  not null,
zvanje       varchar(200) not null with default,
opis         long varchar ,
primary     key(id_smera) ,
foreign     key fk_smer_nivo(id_nivoa)
  references nivo_kvalifikacije,
  constraint uk_sifra unique(oznaka) );
```

```
create table dosije (
indeks       integer  not null,
id_smera     integer  not null,
ime          varchar(25) not null,
prezime      varchar(25) not null,
pol          char      not null,
jmbg         char(13)  not null,
datum_rodjenja date,
mesto_rodjenja varchar(100),
drzava_rodjenja varchar(100),
ime_oca      varchar(50),
ime_majke    varchar(50),
ulica_stanovanja varchar(100),
kucni_broj   varchar(20),
mesto_stanovanja varchar(100),
postanski_broj varchar(20),
drzava_stanovanja varchar(100),
telefon      varchar(25),
mobilni_telefon varchar(25),
email        varchar(50),
"www uri"    varchar(100),
datum_upisa  date not null,
primary key  (indeks),
foreign key  fk_dosije_smer(id_smera)
  references smer);
```

```
create table upis_godine (
indeks       integer  not null,
godina       smallint  not null
  constraint chk_godina check
    (godina between 1900 and 2025),
datum_upisa  date      not null,
upisano_bodova smallint  not null
  constraint chk_upisbod check
    (upisano_bodova between 0 and 125),
datum_overe date      ,
overeno_bodova smallint ,
  constraint chk_overa check(
    (overeno_bodova is null
    and datum_overe is null)
  or
```

```
(overeno_bodova is not null
and datum_overe is not null
and datum_overe >= datum_upisa
and overeno_bodova between 0 and upisano_bodova)
),
primary key  (indeks, godina) ,
foreign key  fk_upis_dosije(indeks)
  references dosije );
```

```
create table status (
indeks integer not null,
datum date not null,
status varchar(20) not null
  constraint chk_status check(
    status in (
      'budzet',
      'samofinansiranje',
      'diplomirao',
      'mirovanje',
      'ispisan'
    ) ) ,
primary key  (indeks, datum, status) ,
foreign key  fk_dosije(indeks)
  references dosije );
```

```
create table predmet (
id_predmeta  integer  not null,
sifra        varchar(20) not null,
naziv        varchar(200) not null,
broj_semestara smallint  not null with default 1
  constraint chk_broj_semestara check(
    broj_semestara between 1 and 10),
bodovi       smallint  not null
  constraint chk_bodovi check(
    bodovi between 1 and 50),
primary     key(id_predmeta) ,
  constraint uk_sifra unique(sifra) );
```

```
create table uslovni_predmet (
id_predmeta  integer  not null,
id_uslovnog  integer  not null,
primary     key(id_predmeta, id_uslovnog),
foreign     key fk_upr_predmet(id_predmeta)
  references predmet,
foreign     key fk_upr_uslovni(id_uslovnog)
  references predmet );
```

```
create table obavezan_predmet (
id_smera     integer  not null,
id_predmeta  integer  not null,
semestar     integer  not null with default 1
  constraint chk_semestar check(
    semestar between 1 and 10 ),
primary     key(id_smera, id_predmeta),
foreign     key fk_obp_smer(id_smera)
  references smer ,
foreign     key fk_obp_predmet(id_predmeta)
  references predmet );
```

```
create table semestar (
godina       smallint  not null,
semestar     smallint  not null
  constraint chk_semestar check(
    semestar in (1,2)),
primary     key(godina, semestar) );
```

```

create table kurs (
id_predmeta integer not null,
godina smallint not null,
semestar smallint not null,
primary key(id_predmeta,godina,semestar),
foreign key fk_kurs_predmet(id_predmeta)
references predmet
,
foreign key fk_kurs_semestar(godina,semestar)
references semestar );

create table upisan_kurs (
indeks integer not null,
id_predmeta integer not null,
godina smallint not null,
semestar smallint not null,
primary key(indeks,id_predmeta,godina,semestar),
foreign key fk_prk_kurs(id_predmeta,godina,semestar)
references kurs
,
foreign key fk_prk_godina(indeks,godina)
references upis_godine );

create table ispitni_rok (
godina smallint not null,
oznaka varchar(20) not null,
naziv varchar(50) not null,
pocetak_prijavlivanja date not null,
kraj_prijavlivanja date not null,
tip char not null with default 'B'
constraint chk_tiproka check(
tip in ('1','2','B','X')),
-- '1' - samo predmeti iz 1. semestra
-- '2' - samo predmeti iz 2. semestra
-- 'B' - predmeti iz oba semestra
-- 'X' - samo po jedan predmet, ako je poslednji nepolozen
primary key(godina,oznaka) );

create table ispit (
indeks integer not null,
id_predmeta integer not null,
godina integer not null,
semestar integer not null,
godina_roka smallint not null,
oznaka_roka char(5) not null,
datum_prijave date not null,
nacin_prijave varchar(16) not null,
broj_polaganja integer not null ,
status_prijave char not null with default 'p',
constraint chk_status check(
status_prijave in ( 'p', 'n', 'o', 'd', 'x' )),
-- status prijave moze biti
-- p - prijavljen
-- n - nije izzasao
-- o - polagao
-- d - diskvalifikovan
-- x - ponisten
datum_pismenog date ,
bodovi_pismenog smallint ,
datum_usmenog date ,
bodovi_usmenog smallint ,
bodovi smallint ,
ocena smallint ,
constraint chk_ocena check(
(status_prijave in ('p','n')
and bodovi is null
and ocena is null)

```

```

or
(status_prijave in ('d')
and bodovi=0
and ocena=5)
or
(status_prijave in ('o','x')
and bodovi between 0 and 100
and ocena between 5 and 10)
) ,
constraint chk_bodovi check(
bodovi is null
or (
bodovi_pismenog is not null
and datum_pismenog is not null
and bodovi_usmenog is null
and datum_usmenog is null
and bodovi = bodovi_pismenog
)
or (
bodovi_pismenog is null
and datum_pismenog is null
and bodovi_usmenog is not null
and datum_usmenog is not null
and bodovi = bodovi_usmenog
)
or (
bodovi_pismenog is not null
and datum_pismenog is not null
and bodovi_usmenog is not null
and datum_usmenog is not null
and bodovi = bodovi_pismenog + bodovi_usmenog
)
) ,
nastavnik varchar(100) ,
napomena varchar(1000) ,
primary key(indeks,id_predmeta,godina_roka,oznaka_roka),
foreign key fk_ispit_isprok(godina_roka,oznaka_roka)
references ispitni_rok
,
foreign key
fk_ispit_upiskurs(indeks,id_predmeta,godina,semestar)
references upisan_kurs );

```