

```
--1
create distinct type indeks as integer with comparisons;
```

```
--2
create table dosije1 (
    indeks indeks not null ,
    id_smera integer not null ,
    status varchar(20) not null ,
    ime varchar(10) not null ,
    prezime varchar(15) not null ,
    dat_upisa date not null,
    primary key (indeks),
    foreign key (id_smera) references smer);
```

```
--3
insert into dosije1
select indeks, id_smera, status, ime, prezime, dat_upisa
from dosije;
```

```
--4
select d1.indeks + d2.indeks
from dosije1 d1, dosije1 d2
where d1.indeks=20060001 and d2.indeks=20060005;
```

```
select integer(d1.indeks) + integer(d2.indeks)
from dosije1 d1, dosije1 d2
where d1.indeks=indeks(20060001) and d2.indeks=indeks(20060005);
```

```
--5
create function godinaupisa(indeks indeks) drugo je tip, prvo ulazna promenljiva...
returns integer
return integer(indeks)/10000;
```

```
--6
create function brojindeksa(indeks indeks)
returns integer
return mod(integer(indeks),10000);
```

```
select godinaupisa(indeks), brojindeksa(indeks)
from dosije1;
```

```
--7
create function max (indeks)
returns indeks
source sysibm.max(integer);
```

```
select max(indeks)
```

```
from dosije1;
```

```
--8
```

```
create distinct type bodovi as smallint with comparisons;
```

```
create function obaveznibodovi(smer integer)
```

```
returns bodovi
```

```
return select sum(bodovi)
```

```
from obavezan_predmet op join predmet p
```

```
on p.id_predmeta=op.id_predmeta
```

```
where op.id_smera=smer;
```

```
create table polozenobodova
```

```
(
```

```
indeks integer not null,
```

```
polozenobodova bodovi,
```

```
primary key (indeks)
```

```
);
```

```
insert into polozenobodova
```

```
select d.indeks, sum(p.bodovi)
```

```
from dosije d join ispit i2 on d.indeks=i2.indeks
```

```
join predmet p on p.id_predmeta=i2.id_predmeta
```

```
where not exists ( select *
```

```
from obavezan_predmet op
```

```
where op.id_smera=d.id_smera
```

```
and not exists (select *
```

```
from ispit i
```

```
where i.id_predmeta=op.id_predmeta
```

```
and d.indeks=i.indeks
```

```
and ocena>5 and status_prijave='o'))
```

```
and ocena>5 and status_prijave='o'
```

```
group by d.indeks;
```

```
create view studpolobav as (
```

```
select d.indeks, ime, prezime, s.naziv, polozenobodova, obaveznibodovi(s.id_smera) obavezkred
```

```
from dosije d join smer s on d.id_smera=s.id_smera
```

```
join polozenobodova pk on pk.indeks=d.indeks;
```

```
);
```

```
--9
```

```
with na_smeru as (
```

```
select d.id_smera, count(distinct d.indeks) n, avg(ocena+0.0) ocena
```

```
from dosije d join smer s
```

```
on d.id_smera = s.id_smera
```

```
join nivo_kvalifikacije nk
```

```
on nk.id = s.id_nivoa and nk.stepen = 'VI'
```

```
left outer join ispit i
```

```
on d.indeks = i.indeks and status_prijave='o' and ocena>5 and godina = 2006
```

```
where year(dat_upisa) = 2006
```

```
group by d.id_smera ),
svi as (
select sum(n) n
from na_smeru
)
select s.oznaka, s.naziv, svi.n ukupno, us.n nasmer, us.n * 100.0 / svi.n proc, ocena
from smer s join na_smeru us
on us.id_smera = s.id_smera, svi
order by ocena;
```

```
--10
update dosije
set status='diplomirao'
where id_smera in ( select id_smera
from smer join nivo_kvalifikacije on id=id_nivoa
where smer.naziv='Informatika' and stepen='VI')
and 180 <= ( select sum(p.bodovi)
from ispit i join predmet p
on i.id_predmeta=p.id_predmeta
where indeks = dosije.indeks and ocena > 5 and status_prijave='o');
```

```
delete from ispit
where godina=2008 and indeks in ( select indeks
from dosije
where status='mirovanje');
```