

```
--1
select ime, count(*)n
from dosije
where pol='m'
group by ime
order by n;
```

```
--2
select i.indeks, rtrim(d.ime) || ' ' || rtrim(d.prezime), sum(p.bodovi) polozeno
from dosije d
  join upisan_kurs uk
    on d.indeks=uk.indeks
  join kurs k
    on k.id_predmeta=uk.id_predmeta
   and k.godina=uk.godina
   and k.semestar=uk.semestar
  join predmet p
    on k.id_predmeta=p.id_predmeta
  join ispit i
    on uk.indeks=i.indeks
   and uk.id_predmeta=i.id_predmeta
   and uk.godina=i.godina
   and uk.semestar=i.semestar
where i.status_prijave='o'
  and i.ocena>5
group by i.indeks, rtrim(d.ime) || ' ' || rtrim(d.prezime)
order by 3;
```

```
--3
select indeks, max(coalesce(datum_usmenog, datum_pismenog)) poslednji
from ispit
where ocena > 5 and status_prijave='o'
group by indeks;
```

```
--4
select s.naziv smer, p1.naziv obavezan_predmet, p2.naziv uslovni_predmet
from nivo_kvalifikacije nk join smer s on s.id_nivoa=nk.id
  join obavezan_predmet op on op.id_smera=s.id_smera
  join predmet p1 on p1.id_predmeta=op.id_predmeta
  left outer join uslovni_predmet up on up.id_predmeta=op.id_predmeta
  left outer join predmet p2 on p2.id_predmeta=up.id_uslovnog
where nk.stepen='VI'
order by smer, obavezan_predmet;
```

```
--5
with indeksbodova as (select indeks, sum(p.bodovi) polbodovi
from ispit i join predmet p on i.id_predmeta=p.id_predmeta
where ocena > 5 and status_prijave='o'
group by indeks),
maxsmer as (select id_smera, max(polbodovi) maxb
from dosije d join indeksbodova on d.indeks=indeksbodova.indeks
group by id_smera)
select s.naziv, d.indeks, ime, prezime, polbodovi
```

```
from dosije d join indeksbodova on d.indeks=indeksbodova.indeks
  join maxsmer on maxsmer.id_smera=d.id_smera join smer s on maxsmer.id_smera=s.id_smera
where polbodovi = maxb;
```

--6

```
select d.indeks, d.ime, d.prezime, p.naziv
from dosije d join smer s on s.id_smera=d.id_smera
  join nivo_kvalifikacije nk on nk.id=s.id_nivoa
  join obavezan_predmet op on d.id_smera=op.id_smera
  join predmet p on p.id_predmeta=op.id_predmeta
where s.naziv='Informatika' and nk.stepen='VI' and d.indeks between 20070000 and 20079999
  and not exists(select *
  from ispit i where i.indeks=d.indeks and i.id_predmeta=op.id_predmeta and ocena>5 and
  status_prijave='o');
```

--7

```
with nepolozeni as (select d.indeks, d.ime, d.prezime,p.id_predmeta, p.naziv
from dosije d join obavezan_predmet op on d.id_smera=op.id_smera
  join predmet p on p.id_predmeta=op.id_predmeta
where d.id_smera=201 and d.indeks/10000=2007 and not exists (select *
  from ispit i
  where i.indeks= d.indeks and
  i.id_predmeta=op.id_predmeta and
  ocena>5 and status_prijave='o'))
select nepolozeni.ime, nepolozeni.prezime, nepolozeni.naziv predmet, p.naziv
from nepolozeni join uslovni_predmet up on nepolozeni.id_predmeta=up.id_predmeta
  join predmet p on p.id_predmeta=up.id_uslovnog
where up.id_uslovnog not in ( select id_predmeta
  from ispit i
  where indeks=nepolozeni.indeks and
  ocena>5 and status_prijave='o')
order by nepolozeni.prezime, nepolozeni.ime;
```

--8

```
with a as (select id_nivoa, id_predmeta, count(*) n
from smer s join obavezan_predmet op on s.id_smera=op.id_smera
group by id_nivoa, id_predmeta),
b as (select id_nivoa, count(*) n
from smer
group by id_nivoa)
select nk.naziv, p.naziv
from a join b on a.id_nivoa=b.id_nivoa
  join nivo_kvalifikacije nk on nk.id=a.id_nivoa
  join predmet p on a.id_predmeta=p.id_predmeta
where a.n=b.n;
```

--ili

```
select distinct kv.naziv, p.naziv
from obavezan_predmet op join smer s1
  on op.id_smera=s1.id
  join nivo_kvalifikacije kv
```

```
        on kv.id=s1.id_nivoa
    join predmet p
        on op.id_predmeta=p.id_predmeta
where not exists( select *
    from smer s
    where s.id_nivoa=s1.id_nivoa
        and not exists( select *
            from obavezan_predmet p1
            where op.id_predmeta=p1.id_predmeta
                and p1.id_smera=s.id_smera));
```

--9

```
with a as (select id_predmeta id, sum(case when ocena>5 then 1 else 0 end) brP, count(distinct indeks) uk
from ispit
where status_prijave='o'
group by id_predmeta)
select p.naziv, a.brP*100.0/a.uk prolaznost
from predmet p join a on p.id_predmeta=a.id
order by prolaznost desc;
```

--10

```
select s.naziv, d1.dat_rodjenja, d1.dat_rodjenja, d1.indeks, d1.ime, d1.prezime, d2.indeks, d2.ime, d2.prezime
from dosije d1 join smer s
    on d1.id_smera=s.id_smera
join dosije d2
    on d1.id_smera=d2.id_smera and d1.dat_rodjenja=d2.dat_rodjenja
where d1.indeks<d2.indeks;
```