

1a
select indeks
from dosije
where mesto_rodjenja='Beograd'
union
select indeks
from ispit
where ocena=10
order by indeks desc;

b
select indeks
from dosije
where mesto_rodjenja='Beograd'
intersect
select indeks
from ispit
where ocena=10
order by indeks desc;

c
select indeks
from dosije
where mesto_rodjenja='Beograd'
except
select indeks
from ispit
where ocena=10
order by indeks desc;

2

```
select d.indeks, count(*) br_ispita  
from dosije d join ispit i on d.indeks=i.indeks  
group by d.indeks  
union  
select indeks, 0  
from dosije d  
where not exists ( select *  
                  from ispit i  
                  where d.indeks=i.indeks);
```

3

```
select indeks, id_predmeta, ocena, case  
    when ocena=10 then 'deset'  
    when ocena=9 then 'devet'  
    when ocena=8 then 'osam'  
    when ocena=7 then 'sedam'  
    when ocena=6 then 'sest'  
    else 'nepolozen'
```

```
end as rezultat_ispita
from ispit;
```

ili

```
select indeks, id_predmeta, ocena, case ocena
      when 10 then 'deset'
      when 9 then 'devet'
      when 8 then 'osam'
      when 7 then 'sedam'
      when 6 then 'sest'
      else 'nepolozen'
end as rezultat_ispita
from ispit;
```

4

```
select naziv, case
      when bodovi>7 then 'I kat'
      when bodovi>4 then 'II kat'
      else 'III kat'
end as kategorija
from predmet;
```

5

```
select kategorija, count(*)
from (select naziv, case
      when bodovi>7 then 'I kat'
      when bodovi>4 then 'II kat'
      else 'III kat'
end as kategorija
from predmet) as a
group by kategorija;
```

ili

```
with predmet_kategorija (predmet, kategorija) as (
select naziv, case
      when bodovi>7 then 'I kat'
      when bodovi>4 then 'II kat'
      else 'III kat'
end as kategorija
from predmet)
select kategorija, count(*)
from predmet_kategorija
group by kategorija;
```

6

```
with student_bodovi as (
select indeks, sum(bodovi) pol_bodovi
from ispit i join predmet p on i.id_predmeta=p.id_predmeta
```

```
where ocena>5
group by indeks)
select count(*) br_studenata
from student_bodovi
where pol_bodovi>10;
```

7

```
with student_ocene as (
select indeks, ocena br8, cast(null as smallint) br9
from ispit
where ocena=8
union all
select indeks, cast(null as smallint) br8, ocena br9
from ispit
where ocena=9)
select indeks, count(br8) broj_8, count(br9) broj_9
from student_ocene
group by indeks;
```

ili

```
with student_8 as (
select indeks, count(*) br8
from ispit
where ocena=8
group by indeks
),
student_9 as (
select indeks, count(*) br9
from ispit
where ocena=9
group by indeks
)
select coalesce(s1.indeks, s2.indeks), coalesce(br8,0) broj_8, coalesce(br9, 0) broj_9
from student_8 s1 full outer join student_9 s2 on s1.indeks=s2.indeks;
```

ili

```
select indeks, sum(case when ocena=8 then 1 else 0 end) broj_8, sum(case when ocena=9
then 1 else 0 end) broj_9
from ispit
group by indeks
having sum(case when ocena=8 then 1 else 0 end)>0 or sum(case when ocena=9 then 1 else
0 end)>0;
```

ili

```
select indeks, sum(case when ocena=8 then 1 else 0 end) broj_8, sum(case when ocena=9
then 1 else 0 end) broj_9
from ispit
where ocena=8 or ocena=9
```

group by indeks;

8

```
insert into dosije (indeks, ime, prezime, god_rodjenja, mesto_rodjenja)
values (20100028, 'Marko', 'Markovic', 1990, 'Kragujevac');
```

9

```
insert into predmet
values (2005, 'P112', 'Uvod u arhitekturu racunara', 6),
      (2006, 'P116', 'Razvoj softvera', 6);
```

10

```
insert into ispit (indeks, id_predmeta, godina_roka, oznaka_roka, ocena)
select indeks, id_predmeta, 2011, 'jun', 9
from dosije, predmet
where god_rodjenja=1991 and naziv='Programiranje 2';
```

11

```
delete from dosije
where god_rodjenja=1990;
```

12

```
delete from ispit
where id_predmeta in ( select id_predmeta
                      from predmet
                      where naziv='Programiranje 2' or bodovi=15);
```

13

```
update predmet
set bodovi=bodovi*1.2
where sifra like 'P%';
```

14

```
update ispit
set (godina_roka, oznaka_roka, datum_ispita)=(2011, 'jun', null)
where id_predmeta in (select id_predmeta
                     from predmet
                     where naziv='Analiza 1') and godina_roka=2011 and oznaka_roka='jan';
```

15

```
update predmet
set bodovi=(select max(bodovi)
           from predmet)
where exists ( select *
             from ispit i join dosije d on i.indeks=d.indeks
             where mesto_rodjenja='Beograd' and i.id_predmeta=predmet.id_predmeta);
```

16

```
select distinct coalesce(ir.naziv, 'nema odgovarajuceg'), coalesce(p.naziv, 'nema
odgovarajuceg')
```

```
from ispitni_rok ir left outer join ispit i on ir.godina_roka=i.godina_roka and  
ir.oznaka_roka=i.oznaka_roka full outer join predmet p on p.id_predmeta=i.id_predmeta;
```

17

```
with pom as (select indeks, count(distinct id_predmeta) br_polozenih,  
                avg(ocena+0.0) prosek  
            from ispit i join predmet p on p.id_predmeta=i.id_predmeta  
            where ocena>5  
            group by indeks  
            having sum(bodovi) between 15 and 25)  
select d.indeks, ime, prezime, count(distinct id_predmeta) br_polaganih,  
        br_polozenih, prosek  
from dosije d join pom on d.indeks = pom.indeks join ispit i on i.indeks = d.indeks  
group by d.indeks, ime, prezime, br_polozenih,prosek  
order by d.indeks
```