

SQL

Promenjive Tabele
i Set Operatori

```
Select  $A_1, A_2, \dots, A_n$ 
From    $R_1, R_2, \dots, R_m$ 
where  uslov
```

Promenljive tabele

Set Operatori:
Union, Intersect, Except

Primer: Prijava studenata baza podataka

Fakultet (Fime, Grad, BrojMesta)

Student (Sid, Sime, Prosek, Vskole)

Prijava (Sid, Fime, Smer, Odluka)

Student

Sid	Sime	Prosek	Vskole

Prijava

Sid	Fime	Smer	Odluka

Fakultet

Fime	grad	BrojMesata

Zadatak:

Prikazati sid, imena, prosek, fakultete na koje se student prijavio i broj slobodnih mesta na tom fakultetu. U ovom primeru cilj je pokazati upotrebu *table variables opcije*

```
select Student.Sid,Sime,Prosek,Prijava.Fime,Grad
From Student,Prijava,Fakultet
where Student.Sid=Prijava.Sid and
Prijava.Fime = Fakultet.Fime
```

```
select S.Sid,Sime,Prosek,P.Fime,Grad
From Student S,Prijava P,Fakultet F
where S.Sid=P.Sid and
P.Fime = F.Fime
```

Sid	Sime	Prosek	Vskole

Sid	Fime	Smer	Odluka

Fime	grad	BrojMesata

Zadatak:

Prikazati parove studenata (imena i prosek) sa istim prosekom.

```
select s1.Sime, s1, prosek,  
from Student s1, Student s2  
where s1.prosek = s2.prosek and  
s1.Sid < s2.Sid
```

Student

Sid	Sime	Prosek	Vskole
1	Marko	3,4	340
2	Janko	4.0	400
3	Darko	3.4	500

ili

S1.Sid	S1.Sime	S1.Prosek	S1.Vskole	S2.Sid	S2.Sime	S2.Prosek	S2.Vskole
1	Marko	3,4	340	1	Marko	3,4	340
1	Marko	3,4	340	2	Janko	4.0	400
1	Marko	3,4	340	3	Darko	3.4	500
2	Janko	4.0	400	1	Marko	3,4	340
2	Janko	4.0	400	2	Janko	4.0	400
2	Janko	4.0	400	3	Darko	3.4	500
3	Darko	3.4	500	1	Marko	3,4	340
3	Darko	3.4	500	2	Janko	4.0	400
3	Darko	3.4	500	3	Darko	3.4	500

Union operator

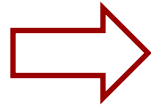
Prikaz liste sa imenima svih studenata i fakulteta

```

select Sime as Ime
From Student

Union

select Fime as Ime
From Fakultet
    
```



ime
Marko
Darko
Jelena
VTS
ELFAK
ETF
FON

```

select Sime as Ime
From Student

Union all

select Fime as Ime
From Fakultet

Order by Ime
    
```



ime
Marko
Darko
Jelena
Darko
VTS
ELFAK
ETF
FON

Sid	Sime	Prosek	Vskole
1	Marko	3.8	580
2	Darko	4.3	400
3	Jelena	4.9	620
4	Darko	3.6	300

Student

Sid	Fime	Smer	Odluka

Prijava

Fime	grad	BrojMesta
VTS	Nis	400
ELFAK	Nis	500
ETF	Bg	500
FON	BG	450

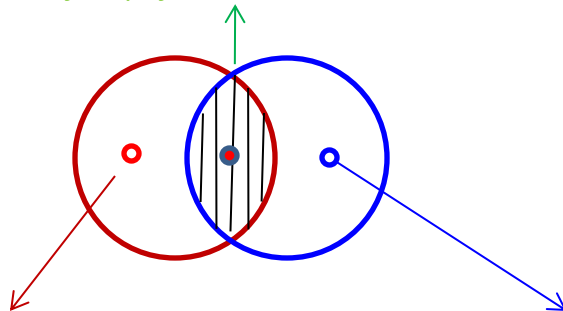
Fakultet

Presek operator

Zadatak:

Prikazati sid studenata koji su se prijavili istovremeno i na SRT smer i na smer grafika.

Student koji se prijavio i na smer Srt i Grafika



```
Select sid  
From Prijava  
where Smer="SRT"
```

Intersect

```
Select sid  
From Prijava  
where Smer="Grafika"
```

```
Select distinct p1.sid  
From Prijava p1, Prijava p2  
where p1.sid = p2.sid and  
p1.Smer="SRT" and  
p2.Smer="Grafika"
```

Student koji se prijavio samo na smer Srt

Student koji se prijavio samo na smer Grafika

Student

Sid	Sime	Prosek	Vskole
1	Marko	3.8	580
2	Darko	4.3	400
3	Jelena	4.9	620
4	Darko	3.6	300

Prijava

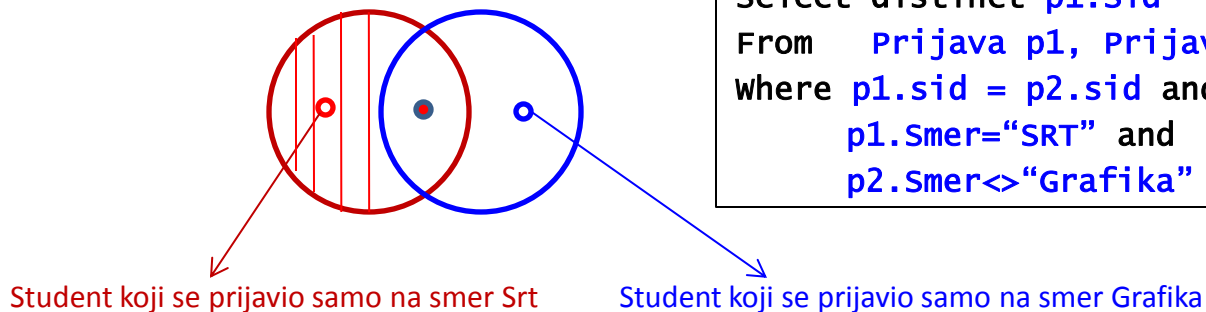
Sid	Fime	Smer	Odluka
1	VTS	SRT	Primljen
1	ETF	RTI	Odbijen
2	ELFAK	Grafika	Primljen
2	FON	SRT	Odbijen

Razlika operator

Zadatak:

Prikazati sid studenata koji su se prijavili na SRT smer ali se nisu istovremeno prijavili i na smer grafika.

```
Select sid
From Prijava
Where Smer="SRT"
Except
Select sid
From Prijava
where Smer="Grafika"
```



```
Select distinct p1.Sid
From Prijava p1, Prijava p2
where p1.sid = p2.sid and
p1.Smer="SRT" and
p2.Smer<>"Grafika"
```

Student

Sid	Sime	Prosek	Vskole
1	Marko	3.8	580
2	Darko	4.3	400
3	Jelena	4.9	620
4	Darko	3.6	300

Prijava

Sid	Fime	Smer	Odluka
1	VTS	SRT	Primljen
1	ETF	RTI	Odbijen
2	ELFAK	Grafika	Primljen
2	FON	SRT	Odbijen