L08 Limbajul de manipulare a datelor

```
use bdFacultati
--Sa se creeze tabelul tRestantieri cu studentii ce au obtinut note < 5
select CodSpec, A. CodStud, Nume, C. CodCurs, Denumire, Nota
   into tRestantieri
   from tStudenti as A inner join tNote as B on A.CodStud=B.codStud
   inner join tCursuri as C on B.CodCurs=C.CodCurs
   where Nota<5
--Sa se afiseze tabelul tRestantieri
select * from tRestantieri
/*
CodSpec
          CodStud
                      Nume CodCurs
                                            Denumire
                                                                     Nota
                                 FP
Info
           s03
                                              Fundamentele Programarii 4
                      Alexandra
          S12
                      Marian
                                             Fundamentele Programarii
Mate
                                  FP
--Sa se stearga continutul tabelului tRestantieri
truncate table tRestantieri
/*Comanda: `truncate table tRestantieri` este similara ca efect dar mult mai
rapida decat `delete tRestantieri`
*/
select * from tRestantieri
CodSpec
          CodStud Nume
                                CodCurs Denumire
                                                                 Nota
*/
--Sa se adauge tabelului tRestantieri constrangerea primay key
alter table tRestantieri
add constraint pk_rest primary key (CodStud,CodCurs)
--sa se insereze in tRestantieri studentii restantieri
insert into tRestantieri
select CodSpec,A.CodStud,Nume,C.CodCurs,Denumire,Nota
   from tStudenti as A inner join tNote as B on A.CodStud=B.codStud
   inner join tCursuri as C on B.CodCurs=C.CodCurs
   where Nota<5
select * from tRestantieri
CodSpec
           CodStud
                       Nume
                                 CodCurs
                                              Denumire
          S03
                                             Fundamentele Programarii
Info
                       Alexandra FP
           S12
                       Marian
                                 FP
                                              Fundamentele Programarii
Mate
*/
--Sa se afiseze tabelul tNote
select * from tNote
```

```
codCurs codStud dataExamen nota
ASD
        s01
                  2020-02-08 00:00:00 7
         s02
                  2020-02-08 00:00:00 9
ASD
        s03
                  2020-02-08 00:00:00 8
ASD
ASD
         s04
                  2020-02-08 00:00:00 5
                  2020-02-05 00:00:00 5
FP
         s01
FP
         s02
                  2020-02-05 00:00:00 6
                   2020-02-05 00:00:00 4
FP
         s03
         s04
                  2020-02-05 00:00:00 10
FP
FP
         S11
                  2020-02-05 00:00:00 8
                  2020-02-05 00:00:00 4
FP
         S12
FP
         S13
                  2020-02-05 00:00:00 7
*/
--Sa se afiseze tabelul tStudenti
select * from tStudenti
/*
codStud nume
            CNP codSpec anStudiu codJud localitate
dataNasterii
S01 Florin
               1990514123456 Info
                                      1 AG
                                                Pitesti
                                                          1999-05-
14 00:00:00
SO2 Mihai
               1991130123456 Info 1 AG Costesti 1999-11-
30 00:00:00
     Alexandra 2980117123456 Info
                                      2
                                         AG
                                                Pitesti
                                                          1998-01-
17 00:00:00
S04 Andreea 2980824123456 Info
                                       2 AG
                                                 Stefanesti 1998-08-
24 00:00:00
S11
      Flavius 1990413123456 Mate
                                                           1999-04-
                                       1
                                         AG
                                                 Mioveni
13 00:00:00
S12 Marian
                1980919123456
                            Mate
                                       2
                                          AG
                                                 Pitesti
                                                           1998-09-
19 00:00:00
S13
      Adrian 1990718123456
                                      1
                                         AG
                                                 Costesti 1999-07-
                             Mate
18 00:00:00
S21 Raul
               1991228123456 віо
                                      1
                                         AG
                                                Pitesti
                                                          1999-12-
28 00:00:00
S22 Corina
                2991121123456 віо
                                       1
                                         AG
                                                 Stefanesti 1999-11-
21 00:00:00
s31
      Maria
               2990426123456 AM
                                      1 AG
                                                 Pitesti
                                                           1999-04-
26 00:00:00
S41 Ioana
                5000421033333
                            EF
                                      1
                                         AG
                                                 Pitesti
                                                           2000-04-
21 00:00:00
S42
      Codrut
               6001212033333
                            EF
                                       1
                                          AG
                                                 Pitesti
                                                           2000-12-
12 00:00:00
S43
     Sanziana 6011109033333
                            EF
                                      1
                                         AG
                                                 Pitesti
                                                           2001-11-
09 00:00:00
S44 Victoria 6010307033333 EF
                                      1 AG
                                                 Pitesti 2001-03-
07 00:00:00
*/
select * from tNote where codStud='S03'
/*
        codStud dataExamen nota
codCurs
ASD
        s03
                  2020-02-08 00:00:00 8
         s03
                  2020-02-05 00:00:00 4
FP
*/
-- Sa se mareasca notele studentului 'S03' cu 1 punct
update tNote
```

```
set Nota=Nota+1
     where CodStd='S03' and Nota<10
select * from tNote where codStud='S03'

        codStud
        dataExamen
        nota

        s03
        2020-02-08
        00:00:00
        9

        s03
        2020-02-05
        00:00:00
        5

codCurs
ASD
FP
*/
/* Sa se modifice notele studentului 'SO3' astfel încat la disciplina 'ASD'
nota să devină 8,
iar la 'FP' nota să devină 4*/
update tNote
     set Nota=8
     where CodStud='S03' and codCurs='ASD'
update tNote
    set Nota=4
     where CodStud='S03' and codCurs='FP'
--Sa se afiseze notele stud de la specializarea mate
select A.CodStud, nume, CodSpec, CodCurs, Nota
from tStudenti as A inner join tNote as B
                 on A.codStud=B.codStud
where CodSpec='Mate'
/*
CodStudnumeCodSpecCodCursNotaS11FlaviusMateFP8S12MarianMateFP4S13AdrianMateFP7
*/
--Sa se mareasca cu 1 punct notele studentilor de la mate
--Solutia 1-a - fara clauza from
update tNote
     set Nota=Nota+1
     where CodStud in (select CodStud from tStudenti where codSpec='Mate')
select A.CodStud, nume, CodSpec, CodCurs, Nota
from tStudenti as A inner join tNote as B
                 on A.codStud=B.codStud
where CodSpec='Mate' and nota<10
/*
CodStudnumeCodSpecCodCursNotaS11FlaviusMateFP9S12MarianMateFP5S13AdrianMateFP8
*/
--Solutia a 2-a - cu clauza from
update tNote
     set Nota=Nota+1
     from tStudenti as A inner join tNote as B on a.CodStud=B.codstud
     where codSpec='Mate' and nota<10
select A.CodStud,nume,CodSpec,CodCurs,Nota
from tStudenti as A inner join tNote as B
```

```
on A.codStud=B.codStud
where CodSpec='Mate'
/*
CodStud nume CodSpec CodCurs
                                                    Nota
S11
             Flavius Mate FP
                                                        10
                                        FP
S12
             Marian Mate
                                                        6
S13
             Adrian Mate
                                       FP
                                                        9
*/
--Sa se creeze tabelul tNoteProiect
create table tNoteProject(
  codStud char(10),
  CodCurs char(10),
  nota int constraint ck_notaP check(nota between 1 and 10),
  constraint pk_NotePr primary key(CodStud,CodCurs)
)
--Sa se insereze notele de la proiect la FP studentilor s11,s12,s13
insert into tNoteProiect
values ('s11', 'FP', 8),
         ('s12','FP',6),
         ('s13','FP',10)
--sa se adauge tabelului tNote coloana NotaProiect
alter table scoala.tNote
add NotaProiect int
-- sa se adauge constrangerea notaProiect intre 1 si 10
alter table scoala.tNote
add constraint ck_notaPr check(NotaProiect between 1 and 10)
select * from tNote
codCurs codStud
                       dataExamen nota NotaProject
ASD S01 2020-02-08 00:00:00 7 NULL

      S02
      2020-02-08
      00:00:00
      9
      NULL

      S03
      2020-02-08
      00:00:00
      8
      NULL

      S04
      2020-02-08
      00:00:00
      5
      NULL

ASD
ASD
ASD

      S01
      2020-02-05
      00:00:00
      5
      NULL

      S02
      2020-02-05
      00:00:00
      6
      NULL

      S03
      2020-02-05
      00:00:00
      4
      NULL

      S04
      2020-02-05
      00:00:00
      10
      NULL

      S11
      2020-02-05
      00:00:00
      10
      NULL

FP
FP
FP
FΡ
FP
          S12 2020-02-05 00:00:00 6 NULL
FP
FP
          S13
                  2020-02-05 00:00:00 9 NULL
--sa se actualizeze tabelul tNote cu notele de la proiect memorate in
tNoteProiect
update tNote
set notaProiect=B.Nota
from tNote as A inner join tNoteProiect as B
          on A.CodStud=B.CodStud and A.CodCurs=B.CodCurs
/*
codCurs codStud dataExamen
                                            nota NotaProiect
        S01 2020-02-08 00:00:00 7 NULL
ASD
ASD
          S02
                    2020-02-08 00:00:00 9
                                                   NULL
         S03 2020-02-08 00:00:00 8 NULL
```

1	ASD	S04	2020-02-08	00:00:00	5	NULL
F	FP	s01	2020-02-05	00:00:00	5	NULL
F	FP	s02	2020-02-05	00:00:00	6	NULL
F	FP	s03	2020-02-05	00:00:00	4	NULL
F	FP	s04	2020-02-05	00:00:00	10	NULL
F	FP	S11	2020-02-05	00:00:00	10	8
F	FP	S12	2020-02-05	00:00:00	6	6
F	FP	s13	2020-02-05	00:00:00	9	10
7	*/					