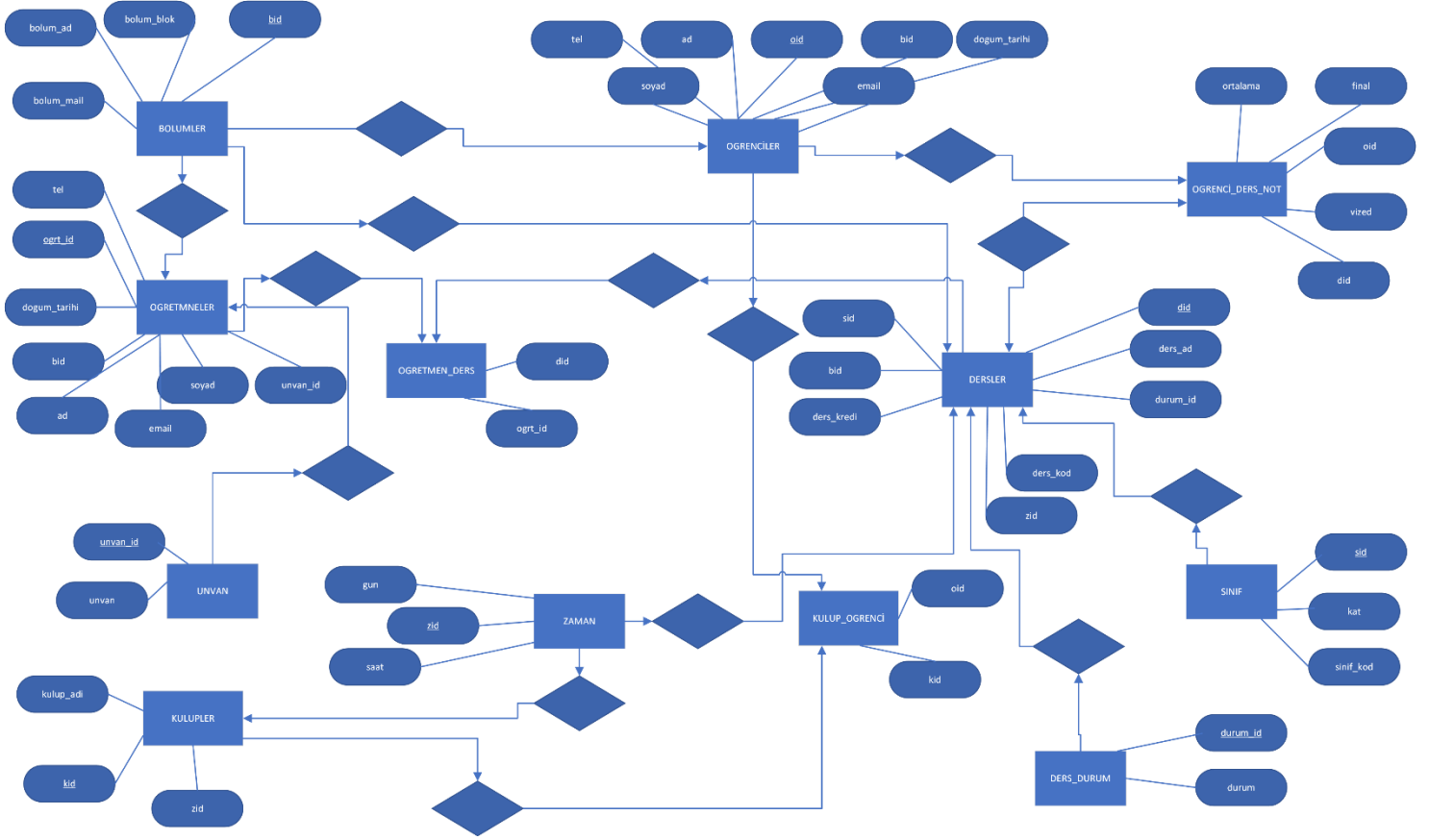


# SEMA YALÇIN

## ÖĞRENCİ YÖNETİM SİSTEMİ VERİTABANI

### 1. E-R diagram



## 2. Tabloların oluşturulması

```
create table bolumler (  
  bid number(3) primary key,  
  bolum_ad varchar2(40),  
  bolum_blok char(2),  
  bolum_mail varchar2(40));
```

```
create table ogrenciler (  
  oid number(3) primary key,  
  ad varchar2(20),  
  soyad varchar2(20),  
  dogum_tarihi date,  
  tel char(11),  
  email varchar2(40),  
  bid number(3) references bolumler(bid));
```

```
create table sinif (  
  sid number(3) primary key,  
  sinif_kod number(3),  
  kat number(3));
```

```
create table zaman (  
  zid number(3) primary key,  
  gun varchar2(20),  
  saat varchar2(20));
```

```
create table ders_durum (  
  durum_id number(3) primary key,  
  durum varchar2(40));
```

SQL Plus

```
SQL> create table bolumler (  
  2  bid number(3) primary key,  
  3  bolum_ad varchar2(40),  
  4  bolum_blok char(2),  
  5  bolum_mail varchar2(40));
```

Table created.

```
SQL> create table ogrenciler (  
  2  oid number(3) primary key,  
  3  ad varchar2(20),  
  4  soyad varchar2(20),  
  5  dogum_tarihi date,  
  6  tel char(11),  
  7  email varchar2(40),  
  8  bid number(3) references bolumler(bid));
```

Table created.

```
SQL> create table sinif (  
  2  sid number(3) primary key,  
  3  sinif_kod number(3),  
  4  kat number(3));
```

Table created.

```
SQL> create table zaman (  
  2  zid number(3) primary key,  
  3  gun varchar2(20),  
  4  saat varchar2(20));
```

Table created.

```
SQL> create table ders_durum (  
  2  durum_id number(3) primary key,  
  3  durum varchar2(40));
```

Table created.

```
create table unvan (  
unvan_id number(3) primary key,  
unvan varchar2(40));
```

```
create table dersler (  
did number(3) primary key,  
ders_kod char(6),  
ders_ad varchar2(40),  
ders_kredi number(3),  
bid number(3) references bolumler(bid),  
sid number(3) references sinif(sid),  
zid number(3) references zaman(zid),  
durum_id number(3) references  
ders_durum(durum_id));
```

```
create table ogrenci_ders_not (  
oid number(3) references ogrenciler(oid),  
did number(3) references dersler(did),  
vize float,  
final float,  
ortalama float);
```

```
create table ogretmenler (  
ogrt_id number(3) primary key,  
ad varchar2(20),  
soyad varchar2(20),  
dogum_tarihi date,  
tel char(11),  
email varchar2(40),  
bid number(3) references bolumler(bid),  
unvan_id number(3) references unvan(unvan_id));
```

```
create table ogretmen_ders (  
ogrt_id number(3) references ogretmenler(ogrt_id),  
did number(3) references dersler(did));
```

```
create table kulupler (  
kid number(3) primary key,  
kulup_adi varchar2(40),  
zid number(3) references zaman(zid));
```

```
create table kulup_ogrenci (  
oid number(3) references ogrenciler(oid),  
kid number(3) references kulupler(kid));
```

```
SQL Plus  
  
SQL> create table unvan (  
2 unvan_id number(3) primary key,  
3 unvan varchar2(40));  
  
Table created.  
  
SQL> create table dersler (  
2 did number(3) primary key,  
3 ders_kod char(6),  
4 ders_ad varchar2(40),  
5 ders_kredi number(3),  
6 bid number(3) references bolumler(bid),  
7 sid number(3) references sinif(sid),  
8 zid number(3) references zaman(zid),  
9 durum_id number(3) references ders_durum(durum_id));  
  
Table created.  
  
SQL> create table ogrenci_ders_not (  
2 oid number(3) references ogrenciler(oid),  
3 did number(3) references dersler(did),  
4 vize float,  
5 final float,  
6 ortalama float);  
  
Table created.  
  
SQL> create table ogretmenler (  
2 ogrt_id number(3) primary key,  
3 ad varchar2(20),  
4 soyad varchar2(20),  
5 dogum_tarihi date,  
6 tel char(11),  
7 email varchar2(40),  
8 bid number(3) references bolumler(bid),  
9 unvan_id number(3) references unvan(unvan_id));  
  
Table created.  
  
SQL> create table ogretmen_ders (  
2 ogrt_id number(3) references ogretmenler(ogrt_id),  
3 did number(3) references dersler(did));  
  
Table created.
```

```
SQL Plus  
  
SQL> create table kulupler (  
2 kid number(3) primary key,  
3 kulup_adi varchar2(40),  
4 zid number(3) references zaman(zid));  
  
Table created.  
  
SQL> create table kulup_ogrenci (  
2 oid number(3) references ogrenciler(oid),  
3 kid number(3) references kulupler(kid));  
  
Table created.
```

### 3. procedure ile tablolara veri girişi yapılması

create or replace procedure INSERT\_BOLUMLER  
(

bid IN NUMBER,  
bolum\_ad IN VARCHAR2,  
bolum\_blok IN CHAR,  
bolum\_mail IN VARCHAR2)

is

begin

insert into bolumler values (bid, bolum\_ad,  
bolum\_blok, bolum\_mail);  
commit;

end;

/

SET SERVEROUTPUT ON

DECLARE

bid NUMBER;  
bolum\_ad VARCHAR2(40);  
bolum\_blok CHAR(2);  
bolum\_mail VARCHAR2(40);

BEGIN

bid:=&bid;  
bolum\_ad:=&bolum\_ad;  
bolum\_blok:=&bolum\_blok;  
bolum\_mail:=&bolum\_mail;  
INSERT\_BOLUMLER(bid, bolum\_ad, bolum\_blok, bolum\_mail);  
DBMS\_OUTPUT.PUT\_LINE('KAYIT BASARILIYLA EKLENDİ.');

END;

/

```
14 /
Enter value for bid: 2
old 7: bid:=&bid;
new 7: bid:=2;
Enter value for bolum_ad: 'Makine Muhendisligi'
old 8: bolum_ad:=&bolum_ad;
new 8: bolum_ad:='Makine Muhendisligi';
Enter value for bolum_blok: 'A'
old 9: bolum_blok:=&bolum_blok;
new 9: bolum_blok:='A';
Enter value for bolum_mail: 'mak@imu.edu.tr'
old 10: bolum_mail:=&bolum_mail;
new 10: bolum_mail:='mak@imu.edu.tr';
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
SQL Plus

SQL> create or replace procedure INSERT_BOLUMLER (
2   bid IN NUMBER,
3   bolum_ad IN VARCHAR2,
4   bolum_blok IN CHAR,
5   bolum_mail IN VARCHAR2)
6 is
7 begin
8   insert into bolumler values (bid, bolum_ad, bolum_blok, bolum_mail);
9   commit;
10 end;
11 /

Procedure created.

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2   bid NUMBER;
3   bolum_ad VARCHAR2(40);
4   bolum_blok CHAR(2);
5   bolum_mail VARCHAR2(40);
6 BEGIN
7   bid:=&bid;
8   bolum_ad:=&bolum_ad;
9   bolum_blok:=&bolum_blok;
10  bolum_mail:=&bolum_mail;
11  INSERT_BOLUMLER(bid, bolum_ad, bolum_blok, bolum_mail);
12  DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```
13 END;
14 /
Enter value for bid: 1
old 7: bid:=&bid;
new 7: bid:=1;
Enter value for bolum_ad: 'Bilgisayar Muhendisligi'
old 8: bolum_ad:=&bolum_ad;
new 8: bolum_ad:='Bilgisayar Muhendisligi';
Enter value for bolum_blok: 'A'
old 9: bolum_blok:=&bolum_blok;
new 9: bolum_blok:='A';
Enter value for bolum_mail: 'bil@imu.edu.tr'
old 10: bolum_mail:=&bolum_mail;
new 10: bolum_mail:='bil@imu.edu.tr';
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
14 /
Enter value for bid: 3
old 7: bid:=&bid;
new 7: bid:=3;
Enter value for bolum_ad: 'Matematik Muhendisligi'
old 8: bolum_ad:=&bolum_ad;
new 8: bolum_ad:='Matematik Muhendisligi';
Enter value for bolum_blok: 'A'
old 9: bolum_blok:=&bolum_blok;
new 9: bolum_blok:='A';
Enter value for bolum_mail: 'mat@imu.edu.tr'
old 10: bolum_mail:=&bolum_mail;
new 10: bolum_mail:='mat@imu.edu.tr';
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
Enter value for bid: 4
old 7: bid:=&bid;
new 7: bid:=4;
Enter value for bolum_ad: 'Tip'
old 8: bolum_ad:=&bolum_ad;
new 8: bolum_ad:='Tip';
Enter value for bolum_blok: 'B'
old 9: bolum_blok:=&bolum_blok;
new 9: bolum_blok:='B';
Enter value for bolum_mail: 'tip@imu.edu.tr'
old 10: bolum_mail:=&bolum_mail;
new 10: bolum_mail:='tip@imu.edu.tr';
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

create or replace procedure INSERT\_OGRENCILER (

oid IN NUMBER,

ad IN VARCHAR2,

soyad IN VARCHAR2,

dogum\_tarihi IN VARCHAR2,

tel IN CHAR,

email IN VARCHAR2,

bid IN NUMBER)

is

begin

insert into ogrenciler values (oid, ad,

soyad, to\_date(dogum\_tarihi,

'dd/mm/yyyy'), tel, email, bid);

commit;

end;

/

SET SERVEROUTPUT ON

DECLARE

oid NUMBER;

ad VARCHAR2(20);

soyad VARCHAR2(20);

dogum\_tarihi VARCHAR2(10);

tel CHAR(11);

email VARCHAR2(40);

bid NUMBER;

BEGIN

oid:=&oid;

ad:=&ad;

soyad:=&soyad;

dogum\_tarihi:=&dogum\_tarihi;

tel:=&tel;

email:=&email;

bid:=&bid;

dogum\_tarihi:=TO\_CHAR(TO\_DATE(  
dogum\_tarihi, 'dd/mm/yyyy'), 'dd/mm/yyyy');

INSERT\_OGRENCILER(oid, ad, soyad,  
dogum\_tarihi, tel, email, bid);

DBMS\_OUTPUT.PUT\_LINE(  
'KAYIT BASARILIYLA EKLENDİ.');

END;

/

```
SQL Plus

SQL> create or replace procedure INSERT_OGRENCILER (
2   oid IN NUMBER,
3   ad IN VARCHAR2,
4   soyad IN VARCHAR2,
5   dogum_tarihi IN VARCHAR2,
6   tel IN CHAR,
7   email IN VARCHAR2,
8   bid IN NUMBER)
9 is
10 begin
11   insert into ogrenciler values (oid, ad, soyad, to_date(dogum_tarihi, 'dd/mm/yyyy'), tel, email,
bid);
12   commit;
13 end;
14 /

Procedure created.

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2   oid NUMBER;
3   ad VARCHAR2(20);
4   soyad VARCHAR2(20);
5   dogum_tarihi VARCHAR2(10);
6   tel CHAR(11);
7   email VARCHAR2(40);
8   bid NUMBER;
9 BEGIN
10   oid:=&oid;
11   ad:=&ad;
12   soyad:=&soyad;
13   dogum_tarihi:=&dogum_tarihi;
14   tel:=&tel;
15   email:=&email;
16   bid:=&bid;
17   dogum_tarihi:=TO_CHAR(TO_DATE(dogum_tarihi, 'dd/mm/yyyy'), 'dd/mm/yyyy');
18   INSERT_OGRENCILER(oid, ad, soyad, dogum_tarihi, tel, email, bid);
19   DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```
21 /
Enter value for oid: 1
old 10: oid:=&oid;
new 10: oid:=1;
Enter value for ad: 'Ayse'
old 11: ad:=&ad;
new 11: ad:='Ayse';
Enter value for soyad: 'Yilmaz'
old 12: soyad:=&soyad;
new 12: soyad:='Yilmaz';
Enter value for dogum_tarihi: '01/01/2002'
old 13: dogum_tarihi:=&dogum_tarihi;
new 13: dogum_tarihi:='01/01/2002';
Enter value for tel: '05369874520'
old 14: tel:=&tel;
new 14: tel:='05369874520';
Enter value for email: 'ayseyilmaz@gmail.com'
old 15: email:=&email;
new 15: email:='ayseyilmaz@gmail.com';
Enter value for bid: 2
old 16: bid:=&bid;
new 16: bid:=2;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
21 /
Enter value for oid: 2
old 10: oid:=&oid;
new 10: oid:=2;
Enter value for ad: 'Ahmet'
old 11: ad:=&ad;
new 11: ad:='Ahmet';
Enter value for soyad: 'Kaya'
old 12: soyad:=&soyad;
new 12: soyad:='Kaya';
Enter value for dogum_tarihi: '10/02/2001'
old 13: dogum_tarihi:=&dogum_tarihi;
new 13: dogum_tarihi:='10/02/2001';
Enter value for tel: '05478469852'
old 14: tel:=&tel;
new 14: tel:='05478469852';
Enter value for email: 'ahmetkaya@gmail.com'
old 15: email:=&email;
new 15: email:='ahmetkaya@gmail.com';
Enter value for bid: 1
old 16: bid:=&bid;
new 16: bid:=1;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
21 /
Enter value for oid: 3
old 10: oid:=&oid;
new 10: oid:=3;
Enter value for ad: 'Betul'
old 11: ad:=&ad;
new 11: ad:='Betul';
Enter value for soyad: 'Yalcin'
old 12: soyad:=&soyad;
new 12: soyad:='Yalcin';
Enter value for dogum_tarihi: '12/10/2002'
old 13: dogum_tarihi:=&dogum_tarihi;
new 13: dogum_tarihi:='12/10/2002';
Enter value for tel: '05412897456'
old 14: tel:=&tel;
new 14: tel:='05412897456';
Enter value for email: 'betulyalcin@gmail.com'
old 15: email:=&email;
new 15: email:='betulyalcin@gmail.com';
Enter value for bid: 1
old 16: bid:=&bid;
new 16: bid:=1;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
21 /
Enter value for oid: 4
old 10: oid:=&oid;
new 10: oid:=4;
Enter value for ad: 'Hasan'
old 11: ad:=&ad;
new 11: ad:='Hasan';
Enter value for soyad: 'Sahin'
old 12: soyad:=&soyad;
new 12: soyad:='Sahin';
Enter value for dogum_tarihi: '01/05/2002'
old 13: dogum_tarihi:=&dogum_tarihi;
new 13: dogum_tarihi:='01/05/2002';
Enter value for tel: '05478455896'
old 14: tel:=&tel;
new 14: tel:='05478455896';
Enter value for email: 'hasansahin@gmail.com'
old 15: email:=&email;
new 15: email:='hasansahin@gmail.com';
Enter value for bid: 4
old 16: bid:=&bid;
new 16: bid:=4;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```

create or replace procedure INSERT_SINIF (
    sid IN NUMBER,
    sinif_kod IN NUMBER,
    kat IN NUMBER)
is
begin
    insert into sinif values (sid, sinif_kod, kat);
    commit;
end;
/

SET SERVEROUTPUT ON
DECLARE
    sid NUMBER;
    sinif_kod NUMBER;
    kat NUMBER;
BEGIN
    sid:=&sid;
    sinif_kod:=&sinif_kod;
    kat:=&kat;
    INSERT_SINIF(sid, sinif_kod, kat);
    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA
EKLENDİ.');
```

```

SQL Plus

SQL> create or replace procedure INSERT_SINIF (
2     sid IN NUMBER,
3     sinif_kod IN NUMBER,
4     kat IN NUMBER)
5 is
6 begin
7     insert into sinif values (sid, sinif_kod, kat);
8     commit;
9 end;
10 /

Procedure created.

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2     sid NUMBER;
3     sinif_kod NUMBER;
4     kat NUMBER;
5 BEGIN
6     sid:=&sid;
7     sinif_kod:=&sinif_kod;
8     kat:=&kat;
9     INSERT_SINIF(sid, sinif_kod, kat);
10    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

Enter value for sid: 1  
old 6: sid:=&sid;  
new 6: sid:=1;  
Enter value for sinif\_kod: 102  
old 7: sinif\_kod:=&sinif\_kod;  
new 7: sinif\_kod:=102;  
Enter value for kat: 1  
old 8: kat:=&kat;  
new 8: kat:=1;  
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.

```

12 /
Enter value for sid: 2
old 6: sid:=&sid;
new 6: sid:=2;
Enter value for sinif_kod: 202
old 7: sinif_kod:=&sinif_kod;
new 7: sinif_kod:=202;
Enter value for kat: 2
old 8: kat:=&kat;
new 8: kat:=2;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```

Enter value for sid: 3
old 6: sid:=&sid;
new 6: sid:=3;
Enter value for sinif_kod: 302
old 7: sinif_kod:=&sinif_kod;
new 7: sinif_kod:=302;
Enter value for kat: 3
old 8: kat:=&kat;
new 8: kat:=3;
KAYIT BASARILIYLA EKLENDİ.
```

```

14 /
Enter value for sid: 4
old 6: sid:=&sid;
new 6: sid:=4;
Enter value for sinif_kod: 402
old 7: sinif_kod:=&sinif_kod;
new 7: sinif_kod:=402;
Enter value for kat: 4
old 8: kat:=&kat;
new 8: kat:=4;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```

create or replace procedure INSERT_ZAMAN (
    zid IN NUMBER,
    gun IN VARCHAR2,
    saat IN VARCHAR2)
is
begin
    insert into zaman values (zid, gun, saat);
    commit;
end;
/

```

```

SET SERVEROUTPUT ON
DECLARE
    zid NUMBER;
    gun VARCHAR2(20);
    saat VARCHAR2(20);
BEGIN
    zid:=&zid;
    gun:=&gun;
    saat:=&saat;
    INSERT_ZAMAN(zid, gun, saat);
    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```

12 /
Enter value for zid: 3
old 6:      zid:=&zid;
new 6:      zid:=3;
Enter value for gun: 'sali'
old 7:      gun:=&gun;
new 7:      gun:='sali';
Enter value for saat: '12:00'
old 8:      saat:=&saat;
new 8:      saat:='12:00';
KAYIT BASARILIYLA EKLENDİ.

```

```

13 /
Enter value for zid: 4
old 6:      zid:=&zid;
new 6:      zid:=4;
Enter value for gun: 'carsamba'
old 7:      gun:=&gun;
new 7:      gun:='carsamba';
Enter value for saat: '13:30'
old 8:      saat:=&saat;
new 8:      saat:='13:30';
KAYIT BASARILIYLA EKLENDİ.

```

```

SQL Plus

PL/SQL procedure successfully completed.

SQL> create or replace procedure INSERT_ZAMAN (
2     zid IN NUMBER,
3     gun IN VARCHAR2,
4     saat IN VARCHAR2)
5 is
6 begin
7     insert into zaman values (zid, gun, saat);
8     commit;
9 end;
10 /

Procedure created.

```

```

SQL Plus

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2     zid NUMBER;
3     gun VARCHAR2(20);
4     saat VARCHAR2(20);
5 BEGIN
6     zid:=&zid;
7     gun:=&gun;
8     saat:=&saat;
9     INSERT_ZAMAN(zid, gun, saat);
10    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```

Enter value for zid: 2
old 6:      zid:=&zid;
new 6:      zid:=2;
Enter value for gun: 'sali'
old 7:      gun:=&gun;
new 7:      gun:='sali';
Enter value for saat: '10:00'
old 8:      saat:=&saat;
new 8:      saat:='10:00';
KAYIT BASARILIYLA EKLENDİ.

```

```

create or replace procedure INSERT_DERS_DURUM (
    durum_id IN NUMBER,
    durum IN VARCHAR2)
is
begin
    insert into ders_durum values (durum_id, durum);
    commit;
end;
/

```

```

SQL Plus

SQL> create or replace procedure INSERT_DERS_DURUM (
  2  durum_id IN NUMBER,
  3  durum IN VARCHAR2)
  4  is
  5  begin
  6      insert into ders_durum values (durum_id, durum);
  7      commit;
  8  end;
  9  /

Procedure created.

```

```

SET SERVEROUTPUT ON
DECLARE
    durum_id NUMBER;
    durum VARCHAR2(40);
BEGIN
    durum_id:=&durum_id;
    durum:=&durum;
    INSERT_DERS_DURUM(durum_id, durum);
    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA
EKLENDİ.');
```

```

SQL Plus

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
  2  durum_id NUMBER;
  3  durum VARCHAR2(40);
  4  BEGIN
  5      durum_id:=&durum_id;
  6      durum:=&durum;
  7      INSERT_DERS_DURUM(durum_id, durum);
  8      DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```

Enter value for durum_id: 2
old 5:      durum_id:=&durum_id;
new 5:      durum_id:=2;
Enter value for durum: 'Universite Secmeli'
old 6:      durum:=&durum;
new 6:      durum='Universite Secmeli';
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
SQL>

```

```

Enter value for durum_id: 3
old 5:      durum_id:=&durum_id;
new 5:      durum_id:=3;
Enter value for durum: 'Teknik Secmeli'
old 6:      durum:=&durum;
new 6:      durum='Teknik Secmeli';
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.

```



```

create or replace procedure INSERT_UNVAN (
    unvan_id IN NUMBER,
    unvan IN VARCHAR2)
is
begin
    insert into unvan values (unvan_id, unvan);
    commit;
end;
/

```

```

SQL Plus
SQL> create or replace procedure INSERT_UNVAN (
2     unvan_id IN NUMBER,
3     unvan IN VARCHAR2)
4 is
5 begin
6     insert into unvan values (unvan_id, unvan);
7     commit;
8 end;
9 /

Procedure created.

```

```

SET SERVEROUTPUT ON
DECLARE
    unvan_id NUMBER;
    unvan VARCHAR2(40);
BEGIN
    unvan_id:=&unvan_id;
    unvan:=&unvan;
    INSERT_UNVAN(unvan_id, unvan);
    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```

SQL Plus
SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2     unvan_id NUMBER;
3     unvan VARCHAR2(40);
4 BEGIN
5     unvan_id:=&unvan_id;
6     unvan:=&unvan;
7     INSERT_UNVAN(unvan_id, unvan);
8     DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```

10 /
Enter value for unvan_id: 2
old 5:      unvan_id:=&unvan_id;
new 5:      unvan_id:=2;
Enter value for unvan: 'Docent'
old 6:      unvan:=&unvan;
new 6:      unvan:='Docent';
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.

```

```

10 /
Enter value for unvan_id: 4
old 5:      unvan_id:=&unvan_id;
new 5:      unvan_id:=4;
Enter value for unvan: 'Ogretim Gorevlisi'
old 6:      unvan:=&unvan;
new 6:      unvan:='Ogretim Gorevlisi';
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.

```

```

10 /
Enter value for unvan_id: 3
old 5:      unvan_id:=&unvan_id;
new 5:      unvan_id:=3;
Enter value for unvan: 'Doktor'
old 6:      unvan:=&unvan;
new 6:      unvan:='Doktor';
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.

```

create or replace procedure INSERT\_DERSLER (

did IN NUMBER,  
ders\_kod IN CHAR,  
ders\_ad IN VARCHAR2,  
ders\_kredi IN NUMBER,  
bid IN NUMBER,  
sid IN NUMBER,  
zid IN NUMBER,  
durum\_id IN NUMBER)

is

begin

insert into dersler values (did, ders\_kod,  
ders\_ad, ders\_kredi, bid, sid, zid, durum\_id);  
commit;

end;

/

SET SERVEROUTPUT ON

DECLARE

did NUMBER;  
ders\_kod CHAR(6);  
ders\_ad VARCHAR2(40);  
ders\_kredi NUMBER;  
bid NUMBER;  
sid NUMBER;  
zid NUMBER;  
durum\_id NUMBER;

BEGIN

did:=&did;  
ders\_kod:=&ders\_kod;  
ders\_ad:=&ders\_ad;  
ders\_kredi:=&ders\_kredi;  
bid:=&bid;  
sid:=&sid;  
zid:=&zid;  
durum\_id:=&durum\_id;  
INSERT\_DERSLER(did, ders\_kod, ders\_ad,  
ders\_kredi, bid, sid, zid, durum\_id);

DBMS\_OUTPUT.PUT\_LINE(  
'KAYIT BASARILIYLA EKLENDİ.');

END;

/

```
23 /
Enter value for did: 3
old 11: did:=&did;
new 11: did:=3;
Enter value for ders_kod: 'BIL356'
old 12: ders_kod:=&ders_kod;
new 12: ders_kod:='BIL356';
Enter value for ders_ad: 'Insan-Bilgisayar Etkilesimi'
old 13: ders_ad:=&ders_ad;
new 13: ders_ad:='Insan-Bilgisayar Etkilesimi';
Enter value for ders_kredi: 4
old 14: ders_kredi:=&ders_kredi;
new 14: ders_kredi:=4;
Enter value for bid: 4
old 15: bid:=&bid;
new 15: bid:=4;
Enter value for sid: 2
old 16: sid:=&sid;
new 16: sid:=2;
Enter value for zid: 2
old 17: zid:=&zid;
new 17: zid:=2;
Enter value for durum_id: 1
old 18: durum_id:=&durum_id;
new 18: durum_id:=1;
KAYIT BASARILIYLA EKLENDİ.
```

```
23 /
Enter value for did: 4
old 11: did:=&did;
new 11: did:=4;
Enter value for ders_kod: 'BIL456'
old 12: ders_kod:=&ders_kod;
new 12: ders_kod:='BIL456';
Enter value for ders_ad: 'Makine Ogrenmesi'
old 13: ders_ad:=&ders_ad;
new 13: ders_ad:='Makine Ogrenmesi';
Enter value for ders_kredi: 7
old 14: ders_kredi:=&ders_kredi;
new 14: ders_kredi:=7;
Enter value for bid: 1
old 15: bid:=&bid;
new 15: bid:=1;
Enter value for sid: 4
old 16: sid:=&sid;
new 16: sid:=4;
Enter value for zid: 4
old 17: zid:=&zid;
new 17: zid:=4;
Enter value for durum_id: 3
old 18: durum_id:=&durum_id;
new 18: durum_id:=3;
KAYIT BASARILIYLA EKLENDİ.
```

```
SQL Plus

SQL> create or replace procedure INSERT_DERSLER (
  2     did IN NUMBER,
  3     ders_kod IN CHAR,
  4     ders_ad IN VARCHAR2,
  5     ders_kredi IN NUMBER,
  6     bid IN NUMBER,
  7     sid IN NUMBER,
  8     zid IN NUMBER,
  9     durum_id IN NUMBER)
10 is
11 begin
12     insert into dersler values (did, ders_kod,
13     ders_ad, ders_kredi, bid, sid, zid, durum_id);
14     commit;
15 end;
16 /

Procedure created.

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
  2     did NUMBER;
  3     ders_kod CHAR(6);
  4     ders_ad VARCHAR2(40);
  5     ders_kredi NUMBER;
  6     bid NUMBER;
  7     sid NUMBER;
  8     zid NUMBER;
  9     durum_id NUMBER;
10 BEGIN
11     did:=&did;
12     ders_kod:=&ders_kod;
13     ders_ad:=&ders_ad;
14     ders_kredi:=&ders_kredi;
15     bid:=&bid;
16     sid:=&sid;
17     zid:=&zid;
18     durum_id:=&durum_id;
19     INSERT_DERSLER(did, ders_kod, ders_ad,
20     ders_kredi, bid, sid, zid, durum_id);
21     DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```
Enter value for did: 1
old 11: did:=&did;
new 11: did:=1;
Enter value for ders_kod: 'IMU031'
old 12: ders_kod:=&ders_kod;
new 12: ders_kod:='IMU031';
Enter value for ders_ad: 'Turk Edebiyati'
old 13: ders_ad:=&ders_ad;
new 13: ders_ad:='Turk Edebiyati';
Enter value for ders_kredi: 2
old 14: ders_kredi:=&ders_kredi;
new 14: ders_kredi:=2;
Enter value for bid: 4
old 15: bid:=&bid;
new 15: bid:=4;
Enter value for sid: 1
old 16: sid:=&sid;
new 16: sid:=1;
Enter value for zid: 3
old 17: zid:=&zid;
new 17: zid:=3;
Enter value for durum_id: 2
old 18: durum_id:=&durum_id;
new 18: durum_id:=2;
KAYIT BASARILIYLA EKLENDİ.
```

```
Enter value for did: 2
old 11: did:=&did;
new 11: did:=2;
Enter value for ders_kod: 'IMU096'
old 12: ders_kod:=&ders_kod;
new 12: ders_kod:='IMU096';
Enter value for ders_ad: 'Inkilap Tarihi'
old 13: ders_ad:=&ders_ad;
new 13: ders_ad:='Inkilap Tarihi';
Enter value for ders_kredi: 2
old 14: ders_kredi:=&ders_kredi;
new 14: ders_kredi:=2;
Enter value for bid: 3
old 15: bid:=&bid;
new 15: bid:=3;
Enter value for sid: 2
old 16: sid:=&sid;
new 16: sid:=2;
Enter value for zid: 3
old 17: zid:=&zid;
new 17: zid:=3;
Enter value for durum_id: 3
old 18: durum_id:=&durum_id;
new 18: durum_id:=3;
KAYIT BASARILIYLA EKLENDİ.
```

```
23 /
Enter value for did: 5
old 11: did:=&did;
new 11: did:=5;
Enter value for ders_kod: 'EEM698'
old 12: ders_kod:=&ders_kod;
new 12: ders_kod:='EEM698';
Enter value for ders_ad: 'Elektronik'
old 13: ders_ad:=&ders_ad;
new 13: ders_ad:='Elektronik';
Enter value for ders_kredi: 6
old 14: ders_kredi:=&ders_kredi;
new 14: ders_kredi:=6;
Enter value for bid: 2
old 15: bid:=&bid;
new 15: bid:=2;
Enter value for sid: 4
old 16: sid:=&sid;
new 16: sid:=4;
Enter value for zid: 4
old 17: zid:=&zid;
new 17: zid:=4;
Enter value for durum_id: 2
old 18: durum_id:=&durum_id;
new 18: durum_id:=2;
KAYIT BASARILIYLA EKLENDİ.
```

```
23 /
Enter value for did: 6
old 11: did:=&did;
new 11: did:=6;
Enter value for ders_kod: 'BIL549'
old 12: ders_kod:=&ders_kod;
new 12: ders_kod:='BIL549';
Enter value for ders_ad: 'Programlama'
old 13: ders_ad:=&ders_ad;
new 13: ders_ad:='Programlama';
Enter value for ders_kredi: 5
old 14: ders_kredi:=&ders_kredi;
new 14: ders_kredi:=5;
Enter value for bid: 1
old 15: bid:=&bid;
new 15: bid:=1;
Enter value for sid: 3
old 16: sid:=&sid;
new 16: sid:=3;
Enter value for zid: 4
old 17: zid:=&zid;
new 17: zid:=4;
Enter value for durum_id: 3
old 18: durum_id:=&durum_id;
new 18: durum_id:=3;
KAYIT BASARILIYLA EKLENDİ.
```

create or replace procedure INSERT\_OGRENCI\_DERS\_NOT (

oid IN NUMBER,

did IN NUMBER,

vize IN FLOAT,

final IN FLOAT,

ortalama IN FLOAT)

is

begin

insert into ogrenci\_ders\_not values (oid, did, vize,

final, ortalama);

commit;

end;

/

SET SERVEROUTPUT ON

DECLARE

oid NUMBER;

did NUMBER;

vize FLOAT;

final FLOAT;

ortalama FLOAT;

BEGIN

oid:=&oid;

did:=&did;

vize:=&vize;

final:=&final;

ortalama:=&ortalama;

INSERT\_OGRENCI\_DERS\_NOT(oid, did, vize,

final, ortalama);

DBMS\_OUTPUT.PUT\_LINE('KAYIT BASARILIYLA EKLENDİ.');

END;

/

```
SQL Plus

SQL> create or replace procedure INSERT_OGRENCI_DERS_NOT (
  2  oid IN NUMBER,
  3  did IN NUMBER,
  4  vize IN FLOAT,
  5  final IN FLOAT,
  6  ortalama IN FLOAT)
  7  is
  8  begin
  9      insert into ogrenci_ders_not values (oid, did, vize,
10  final, ortalama);
11      commit;
12  end;
13  /

Procedure created.

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
  2  oid NUMBER;
  3  did NUMBER;
  4  vize FLOAT;
  5  final FLOAT;
  6  ortalama FLOAT;
  7  BEGIN
  8  oid:=&oid;
  9  did:=&did;
10  vize:=&vize;
11  final:=&final;
12  ortalama:=&ortalama;
13  INSERT_OGRENCI_DERS_NOT(oid, did, vize,
14  final, ortalama);
15  DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```
17 /
Enter value for oid: 1
old 8: oid:=&oid;
new 8: oid:=1;
Enter value for did: 3
old 9: did:=&did;
new 9: did:=3;
Enter value for vize: 60.50
old 10: vize:=&vize;
new 10: vize:=60.50;
Enter value for final: 70
old 11: final:=&final;
new 11: final:=70;
Enter value for ortalama: 65.25
old 12: ortalama:=&ortalama;
new 12: ortalama:=65.25;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
17 /
Enter value for oid: 2
old 8: oid:=&oid;
new 8: oid:=2;
Enter value for did: 4
old 9: did:=&did;
new 9: did:=4;
Enter value for vize: 90
old 10: vize:=&vize;
new 10: vize:=90;
Enter value for final: 70
old 11: final:=&final;
new 11: final:=70;
Enter value for ortalama: 80
old 12: ortalama:=&ortalama;
new 12: ortalama:=80;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
17 /
Enter value for oid: 3
old 8: oid:=&oid;
new 8: oid:=3;
Enter value for did: 4
old 9: did:=&did;
new 9: did:=4;
Enter value for vize: 75
old 10: vize:=&vize;
new 10: vize:=75;
Enter value for final: 100
old 11: final:=&final;
new 11: final:=100;
Enter value for ortalama: 87.5
old 12: ortalama:=&ortalama;
new 12: ortalama:=87.5;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
17 /
Enter value for oid: 4
old 8: oid:=&oid;
new 8: oid:=4;
Enter value for did: 1
old 9: did:=&did;
new 9: did:=1;
Enter value for vize: 50
old 10: vize:=&vize;
new 10: vize:=50;
Enter value for final: 80
old 11: final:=&final;
new 11: final:=80;
Enter value for ortalama: 65
old 12: ortalama:=&ortalama;
new 12: ortalama:=65;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

create or replace procedure INSERT\_OGRETMENLER (

ogrt\_id IN NUMBER,  
ad IN VARCHAR2,  
soyad IN VARCHAR2,  
dogum\_tarihi IN VARCHAR2,  
tel IN CHAR,  
email IN VARCHAR2,  
bid IN NUMBER,  
unvan\_id IN NUMBER)

is

begin

insert into ogretmenler values (ogrt\_id,  
ad, soyad,  
to\_date(dogum\_tarihi, 'dd/mm/yyyy'),  
tel, email, bid, unvan\_id);  
commit;  
end;  
/

SET SERVEROUTPUT ON

DECLARE

ogrt\_id NUMBER;  
ad VARCHAR2(20);  
soyad VARCHAR2(20);  
dogum\_tarihi VARCHAR2(10);  
tel CHAR(11);  
email VARCHAR2(40);  
bid NUMBER;  
unvan\_id NUMBER;

BEGIN  
ogrt\_id:=&ogrt\_id;  
ad:=&ad;  
soyad:=&soyad;  
dogum\_tarihi:=&dogum\_tarihi;  
tel:=&tel;  
email:=&email;  
bid:=&bid;  
unvan\_id:=&unvan\_id;

dogum\_tarihi:=TO\_CHAR(TO\_DATE(dogum\_tarihi, 'dd/mm/yyyy'), 'dd/mm/yyyy');

INSERT\_OGRETMENLER(ogrt\_id, ad, soyad, dogum\_tarihi, tel, email, bid, unvan\_id);

DBMS\_OUTPUT.PUT\_LINE('KAYIT BASARILIYLA EKLENDİ.');

END;  
/

```
Enter value for ogrt_id: 2  
old 11: ogrt_id:=&ogrt_id;  
new 11: ogrt_id:=2;  
Enter value for ad: 'Yusuf'  
old 12: ad:=&ad;  
new 12: ad:='Yusuf';  
Enter value for soyad: 'Yasar'  
old 13: soyad:=&soyad;  
new 13: soyad:='Yasar';  
Enter value for dogum_tarihi: '10/02/1975'  
old 14: dogum_tarihi:=&dogum_tarihi;  
new 14: dogum_tarihi:='10/02/1975';  
Enter value for tel: '05412354852'  
old 15: tel:=&tel;  
new 15: tel:='05412354852';  
Enter value for email: 'yusufyasar@gmail.com'  
old 16: email:=&email;  
new 16: email:='yusufyasar@gmail.com';  
Enter value for bid: 1  
old 17: bid:=&bid;  
new 17: bid:=1;  
Enter value for unvan_id: 2  
old 18: unvan_id:=&unvan_id;  
new 18: unvan_id:=2;  
KAYIT BASARILIYLA EKLENDİ.
```

```
SQL Plus  
SQL> create or replace procedure INSERT_OGRETMENLER (  
2   ogrt_id IN NUMBER,  
3   ad IN VARCHAR2,  
4   soyad IN VARCHAR2,  
5   dogum_tarihi IN VARCHAR2,  
6   tel IN CHAR,  
7   email IN VARCHAR2,  
8   bid IN NUMBER,  
9   unvan_id IN NUMBER)  
10  is  
11  begin  
12      insert into ogretmenler values (ogrt_id, ad, soyad,  
13      to_date(dogum_tarihi, 'dd/mm/yyyy'), tel, email, bid, unvan_id);  
14      commit;  
15  end;  
16  /  
Procedure created.
```

```
SQL> SET SERVEROUTPUT ON  
SQL> DECLARE  
2   ogrt_id NUMBER;  
3   ad VARCHAR2(20);  
4   soyad VARCHAR2(20);  
5   dogum_tarihi VARCHAR2(10);  
6   tel CHAR(11);  
7   email VARCHAR2(40);  
8   bid NUMBER;  
9   unvan_id NUMBER;  
10  BEGIN  
11      ogrt_id:=&ogrt_id;  
12      ad:=&ad;  
13      soyad:=&soyad;  
14      dogum_tarihi:=&dogum_tarihi;  
15      tel:=&tel;  
16      email:=&email;  
17      bid:=&bid;  
18      unvan_id:=&unvan_id;  
19      dogum_tarihi:=TO_CHAR(TO_DATE(dogum_tarihi, 'dd/mm/yyyy'), 'dd/mm/yyyy');  
20      INSERT_OGRETMENLER(ogrt_id, ad, soyad, dogum_tarihi, tel, email, bid, unvan_id);  
21      DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');22  END;  
23  /  
Enter value for ogrt_id: 1  
old 11: ogrt_id:=&ogrt_id;  
new 11: ogrt_id:=1;  
Enter value for ad: 'Hakan'  
old 12: ad:=&ad;  
new 12: ad:='Hakan';  
Enter value for soyad: 'Yilmaz'  
old 13: soyad:=&soyad;  
new 13: soyad:='Yilmaz';  
Enter value for dogum_tarihi: '01/01/1970'  
old 14: dogum_tarihi:=&dogum_tarihi;  
new 14: dogum_tarihi:='01/01/1970';  
Enter value for tel: '05367854369'  
old 15: tel:=&tel;  
new 15: tel:='05367854369';  
Enter value for email: 'hasanyilmaz@gmail.com'  
old 16: email:=&email;  
new 16: email:='hasanyilmaz@gmail.com';  
Enter value for bid: 2  
old 17: bid:=&bid;  
new 17: bid:=2;  
Enter value for unvan_id: 1  
old 18: unvan_id:=&unvan_id;  
new 18: unvan_id:=1;  
KAYIT BASARILIYLA EKLENDİ.
```

```
Enter value for ogrt_id: 3  
old 11: ogrt_id:=&ogrt_id;  
new 11: ogrt_id:=3;  
Enter value for ad: 'Buse'  
old 12: ad:=&ad;  
new 12: ad:='Buse';  
Enter value for soyad: 'Kucuk'  
old 13: soyad:=&soyad;  
new 13: soyad:='Kucuk';  
Enter value for dogum_tarihi: '12/10/1972'  
old 14: dogum_tarihi:=&dogum_tarihi;  
new 14: dogum_tarihi:='12/10/1972';  
Enter value for tel: '05963897456'  
old 15: tel:=&tel;  
new 15: tel:='05963897456';  
Enter value for email: 'busekucuk@gmail.com'  
old 16: email:=&email;  
new 16: email:='busekucuk@gmail.com';  
Enter value for bid: 1  
old 17: bid:=&bid;  
new 17: bid:=1;  
Enter value for unvan_id: 1  
old 18: unvan_id:=&unvan_id;  
new 18: unvan_id:=1;  
KAYIT BASARILIYLA EKLENDİ.
```

```
Enter value for ogrt_id: 4  
old 11: ogrt_id:=&ogrt_id;  
new 11: ogrt_id:=4;  
Enter value for ad: 'Omer'  
old 12: ad:=&ad;  
new 12: ad:='Omer';  
Enter value for soyad: 'Yildiz'  
old 13: soyad:=&soyad;  
new 13: soyad:='Yildiz';  
Enter value for dogum_tarihi: '01/05/1970'  
old 14: dogum_tarihi:=&dogum_tarihi;  
new 14: dogum_tarihi:='01/05/1970';  
Enter value for tel: '05478458736'  
old 15: tel:=&tel;  
new 15: tel:='05478458736';  
Enter value for email: 'omeryildiz@gmail.com'  
old 16: email:=&email;  
new 16: email:='omeryildiz@gmail.com';  
Enter value for bid: 4  
old 17: bid:=&bid;  
new 17: bid:=4;  
Enter value for unvan_id: 3  
old 18: unvan_id:=&unvan_id;  
new 18: unvan_id:=3;  
KAYIT BASARILIYLA EKLENDİ.
```

```
create or replace procedure INSERT_OGRETMEN_DERS (
    ogrt_id IN NUMBER,
    did IN NUMBER)
```

```
is
```

```
begin
```

```
    insert into ogretmen_ders values(ogrt_id, did);
```

```
    commit;
```

```
end;
```

```
/
```

```
SET SERVEROUTPUT ON
```

```
DECLARE
```

```
    ogrt_id NUMBER;
```

```
    did NUMBER;
```

```
BEGIN
```

```
    ogrt_id:=&ogrt_id;
```

```
    did:=&did;
```

```
    INSERT_OGRETMEN_DERS(ogrt_id, did);
```

```
    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```
END;
```

```
/
```

```
SQL Plus

SQL> create or replace procedure INSERT_OGRETMEN_DERS (
2   ogrt_id IN NUMBER,
3   did IN NUMBER)
4 is
5 begin
6   insert into ogretmen_ders values(ogrt_id, did);
7   commit;
8 end;
9 /

Procedure created.

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2   ogrt_id NUMBER;
3   did NUMBER;
4 BEGIN
5   ogrt_id:=&ogrt_id;
6   did:=&did;
7   INSERT_OGRETMEN_DERS(ogrt_id, did);
8   DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```
9 END;
10 /
Enter value for ogrt_id: 1
old 5:   ogrt_id:=&ogrt_id;
new 5:   ogrt_id:=1;
Enter value for did: 5
old 6:   did:=&did;
new 6:   did:=5;
KAYIT BASARILIYLA EKLENDİ.
PL/SQL procedure successfully completed.
```

```
Enter value for ogrt_id: 2
old 5:   ogrt_id:=&ogrt_id;
new 5:   ogrt_id:=2;
Enter value for did: 4
old 6:   did:=&did;
new 6:   did:=4;
KAYIT BASARILIYLA EKLENDİ.
PL/SQL procedure successfully completed.
```

```
Enter value for ogrt_id: 4
old 5:   ogrt_id:=&ogrt_id;
new 5:   ogrt_id:=4;
Enter value for did: 1
old 6:   did:=&did;
new 6:   did:=1;
KAYIT BASARILIYLA EKLENDİ.
PL/SQL procedure successfully completed.
```

```
Enter value for ogrt_id: 3
old 5:   ogrt_id:=&ogrt_id;
new 5:   ogrt_id:=3;
Enter value for did: 6
old 6:   did:=&did;
new 6:   did:=6;
KAYIT BASARILIYLA EKLENDİ.
PL/SQL procedure successfully completed.
```

```

create or replace procedure INSERT_KULUPLER (
    kid IN NUMBER,
    kulup_adi IN VARCHAR2,
    zid IN NUMBER)
is
begin
    insert into kulupler values (kid, kulup_adi, zid);
    commit;
end;
/

```

```

SQL> create or replace procedure INSERT_KULUPLER (
2    kid IN NUMBER,
3    kulup_adi IN VARCHAR2,
4    zid IN NUMBER)
5 is
6 begin
7     insert into kulupler values (kid, kulup_adi, zid);
8     commit;
9 end;
10 /
Procedure created.

```

```

SET SERVEROUTPUT ON
DECLARE
    kid NUMBER;
    kulup_adi VARCHAR2(40);
    zid NUMBER;
BEGIN
    kid:=&kid;
    kulup_adi:=&kulup_adi;
    zid:=&zid;
    INSERT_KULUPLER(kid, kulup_adi, zid);
    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2    kid NUMBER;
3    kulup_adi VARCHAR2(40);
4    zid NUMBER;
5 BEGIN
6     kid:=&kid;
7     kulup_adi:=&kulup_adi;
8     zid:=&zid;
9     INSERT_KULUPLER(kid, kulup_adi, zid);
10    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```

12 /
Enter value for kid: 1
old 6:      kid:=&kid;
new 6:      kid:=1;
Enter value for kulup_adi: 'IEEE'
old 7:      kulup_adi:=&kulup_adi;
new 7:      kulup_adi:='IEEE';
Enter value for zid: 1
old 8:      zid:=&zid;
new 8:      zid:=1;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.

```

```

Enter value for kid: 2
old 6:      kid:=&kid;
new 6:      kid:=2;
Enter value for kulup_adi: 'MedeniyeTekno'
old 7:      kulup_adi:=&kulup_adi;
new 7:      kulup_adi:='MedeniyeTekno';
Enter value for zid: 3
old 8:      zid:=&zid;
new 8:      zid:=3;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.

```

```

12 /
Enter value for kid: 3
old 6:      kid:=&kid;
new 6:      kid:=3;
Enter value for kulup_adi: 'Yazarlik'
old 7:      kulup_adi:=&kulup_adi;
new 7:      kulup_adi:='Yazarlik';
Enter value for zid: 2
old 8:      zid:=&zid;
new 8:      zid:=2;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.

```

```

12 /
Enter value for kid: 4
old 6:      kid:=&kid;
new 6:      kid:=4;
Enter value for kulup_adi: 'Okculuk'
old 7:      kulup_adi:=&kulup_adi;
new 7:      kulup_adi:='Okculuk';
Enter value for zid: 4
old 8:      zid:=&zid;
new 8:      zid:=4;
KAYIT BASARILIYLA EKLENDİ.

```

```
create or replace procedure INSERT_KULUP_OGRENCI (
    oid IN NUMBER,
    kid IN NUMBER)
```

```
is
```

```
begin
```

```
    insert into kulup_ogrenci values (oid, kid);
```

```
    commit;
```

```
end;
```

```
/
```

```
SET SERVEROUTPUT ON
```

```
DECLARE
```

```
    oid NUMBER;
```

```
    kid NUMBER;
```

```
BEGIN
```

```
    oid:=&oid;
```

```
    kid:=&kid;
```

```
    INSERT_KULUP_OGRENCI(oid, kid);
```

```
    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```
END;
```

```
/
```

```
SQL Plus

SQL> create or replace procedure INSERT_KULUP_OGRENCI (
2     oid IN NUMBER,
3     kid IN NUMBER)
4 is
5 begin
6     insert into kulup_ogrenci values (oid, kid);
7     commit;
8 end;
9 /

Procedure created.

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2     oid NUMBER;
3     kid NUMBER;
4 BEGIN
5     oid:=&oid;
6     kid:=&kid;
7     INSERT_KULUP_OGRENCI(oid, kid);
8     DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ.');
```

```
9 END;
10 /
Enter value for oid: 1
old 5:      oid:=&oid;
new 5:      oid:=1;
Enter value for kid: 2
old 6:      kid:=&kid;
new 6:      kid:=2;
KAYIT BASARILIYLA EKLENDİ.
```

```
PL/SQL procedure successfully completed.
```

```
10 /
Enter value for oid: 2
old 5:      oid:=&oid;
new 5:      oid:=2;
Enter value for kid: 4
old 6:      kid:=&kid;
new 6:      kid:=4;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
10 /
Enter value for oid: 3
old 5:      oid:=&oid;
new 5:      oid:=3;
Enter value for kid: 4
old 6:      kid:=&kid;
new 6:      kid:=4;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```

```
Enter value for oid: 4
old 5:      oid:=&oid;
new 5:      oid:=4;
Enter value for kid: 3
old 6:      kid:=&kid;
new 6:      kid:=3;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.
```



#### 4.procedure ile veri güncellemesi yapılması

create or replace procedure UPDATE\_ZAMAN (

```
    saat_ IN VARCHAR2,  
    dersad IN VARCHAR2)  
is  
begin  
    update zaman set saat = saat_ where  
    zid in (select zid from dersler where  
    ders_ad = dersad);  
    commit;  
end;  
/
```

SET SERVEROUTPUT ON

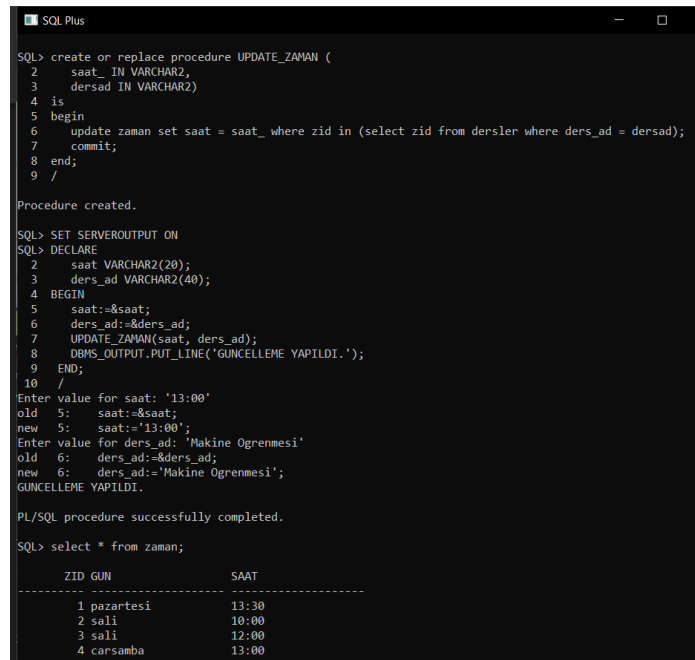
DECLARE

```
    saat VARCHAR2(20);  
    ders_ad VARCHAR2(40);
```

BEGIN

```
    saat:=&saat;  
    ders_ad:=&ders_ad;  
    UPDATE_ZAMAN(saat, ders_ad);  
    DBMS_OUTPUT.PUT_LINE('GUNCELLEME YAPILDI.');
```

END;  
/



```
SQL> create or replace procedure UPDATE_ZAMAN (  
2    saat_ IN VARCHAR2,  
3    dersad IN VARCHAR2)  
4 is  
5 begin  
6     update zaman set saat = saat_ where zid in (select zid from dersler where ders_ad = dersad);  
7     commit;  
8 end;  
9 /  
  
Procedure created.  
  
SQL> SET SERVEROUTPUT ON  
SQL> DECLARE  
2    saat VARCHAR2(20);  
3    ders_ad VARCHAR2(40);  
4 BEGIN  
5     saat:=&saat;  
6     ders_ad:=&ders_ad;  
7     UPDATE_ZAMAN(saat, ders_ad);  
8     DBMS_OUTPUT.PUT_LINE('GUNCELLEME YAPILDI.');
```

ZID	GUN	SAAT
1	pazartesi	13:30
2	sali	10:00
3	sali	12:00
4	carsamba	13:00

create or replace procedure UPDATE\_OGRETMEN\_UNVAN (

```
    unvanid IN NUMBER,  
    unvan_ IN VARCHAR2)
```

is

begin

```
    update ogretmenler set unvan_id =  
    unvanid where unvan_id in (select  
    unvan_id from unvan where unvan =  
    unvan_);
```

```
    commit;
```

end;

/

SET SERVEROUTPUT ON

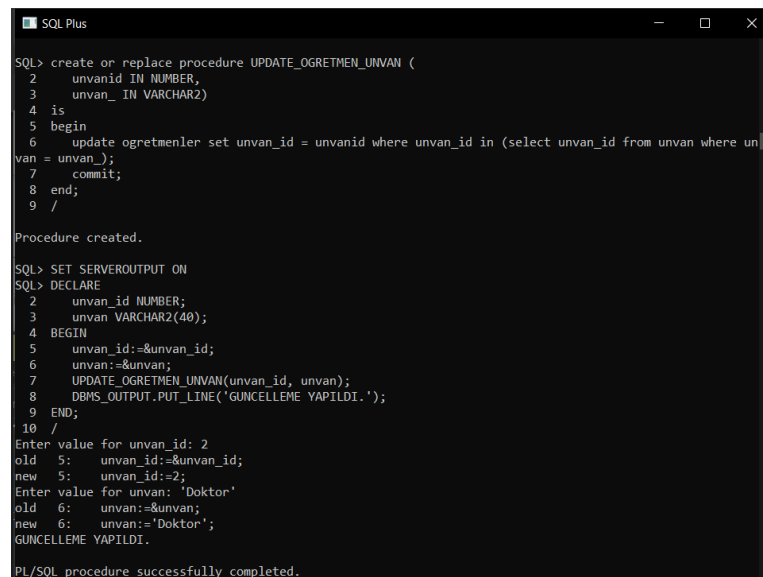
DECLARE

```
    unvan_id NUMBER;  
    unvan VARCHAR2(40);
```

BEGIN

```
    unvan_id:=&unvan_id;  
    unvan:=&unvan;  
    UPDATE_OGRETMEN_UNVAN(unvan_id, unvan);  
    DBMS_OUTPUT.PUT_LINE('GUNCELLEME YAPILDI.');
```

END;  
/



```
SQL> create or replace procedure UPDATE_OGRETMEN_UNVAN (  
2    unvanid IN NUMBER,  
3    unvan_ IN VARCHAR2)  
4 is  
5 begin  
6     update ogretmenler set unvan_id = unvanid where unvan_id in (select unvan_id from unvan where un  
van = unvan_);  
7     commit;  
8 end;  
9 /  
  
Procedure created.  
  
SQL> SET SERVEROUTPUT ON  
SQL> DECLARE  
2    unvan_id NUMBER;  
3    unvan VARCHAR2(40);  
4 BEGIN  
5     unvan_id:=&unvan_id;  
6     unvan:=&unvan;  
7     UPDATE_OGRETMEN_UNVAN(unvan_id, unvan);  
8     DBMS_OUTPUT.PUT_LINE('GUNCELLEME YAPILDI.');
```

PL/SQL procedure successfully completed.

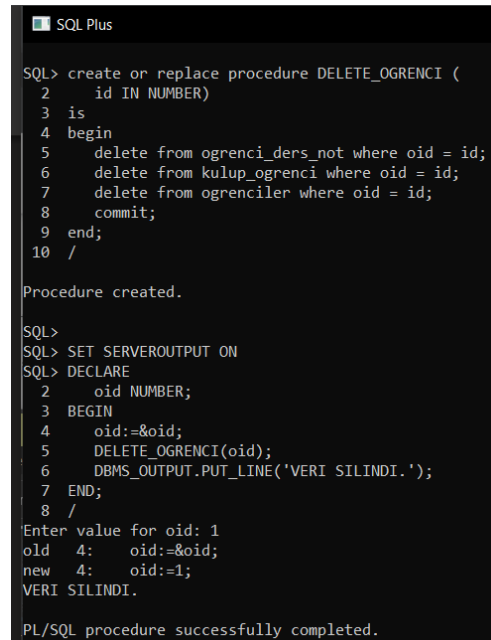


## 5.procedure ile veri silme yapılması

```
create or replace procedure DELETE_OGRENCI (
  id IN NUMBER)
is
begin
  delete from ogrenci_ders_not where oid = id;
  delete from kulup_ogrenci where oid = id;
  delete from ogrenciler where oid = id;
  commit;
end;
/
```

```
SET SERVEROUTPUT ON
DECLARE
  oid NUMBER;
BEGIN
  oid:=&oid;
  DELETE_OGRENCI(oid);
  DBMS_OUTPUT.PUT_LINE('VERİ SILINDİ.');
```

```
END;
/
```



```
SQL Plus

SQL> create or replace procedure DELETE_OGRENCI (
  2   id IN NUMBER)
  3 is
  4 begin
  5   delete from ogrenci_ders_not where oid = id;
  6   delete from kulup_ogrenci where oid = id;
  7   delete from ogrenciler where oid = id;
  8   commit;
  9 end;
 10 /

Procedure created.

SQL>
SQL> SET SERVEROUTPUT ON
SQL> DECLARE
  2   oid NUMBER;
  3 BEGIN
  4   oid:=&oid;
  5   DELETE_OGRENCI(oid);
  6   DBMS_OUTPUT.PUT_LINE('VERİ SILINDİ.');
```

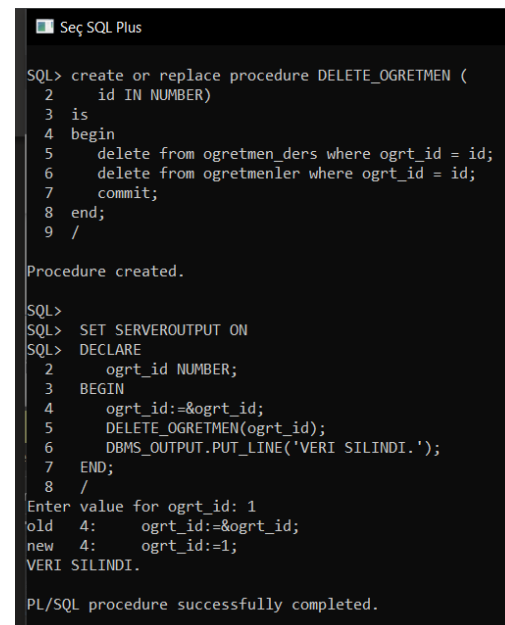
```
7 END;
8 /
Enter value for oid: 1
old 4:   oid:=&oid;
new 4:   oid:=1;
VERİ SILINDİ.

PL/SQL procedure successfully completed.
```

```
create or replace procedure DELETE_OGRETMEN (
  id IN NUMBER)
is
begin
  delete from ogretmen_ders where ogrt_id = id;
  delete from ogretmenler where ogrt_id = id;
  commit;
end;
/
```

```
SET SERVEROUTPUT ON
DECLARE
  ogrt_id NUMBER;
BEGIN
  ogrt_id:=&ogrt_id;
  DELETE_OGRETMEN(ogrt_id);
  DBMS_OUTPUT.PUT_LINE('VERİ SILINDİ.');
```

```
END;
/
```



```
Seç SQL Plus

SQL> create or replace procedure DELETE_OGRETMEN (
  2   id IN NUMBER)
  3 is
  4 begin
  5   delete from ogretmen_ders where ogrt_id = id;
  6   delete from ogretmenler where ogrt_id = id;
  7   commit;
  8 end;
  9 /

Procedure created.

SQL>
SQL> SET SERVEROUTPUT ON
SQL> DECLARE
  2   ogrt_id NUMBER;
  3 BEGIN
  4   ogrt_id:=&ogrt_id;
  5   DELETE_OGRETMEN(ogrt_id);
  6   DBMS_OUTPUT.PUT_LINE('VERİ SILINDİ.');
```

```
7 END;
8 /
Enter value for ogrt_id: 1
old 4:   ogrt_id:=&ogrt_id;
new 4:   ogrt_id:=1;
VERİ SILINDİ.

PL/SQL procedure successfully completed.
```

## 6.trigger ile veri girişi yapılması

```
create or replace trigger ogrenciler_trigger_insert
after insert on ogrenciler
for each row
begin
    insert into ogrenci_ders_not (oid) values (:new.oid);
end;
/
```

```
SQL Plus

SQL> create or replace trigger ogrenciler_trigger_insert
2 after insert on ogrenciler
3 for each row
4 begin
5     insert into ogrenci_ders_not (oid) values (:new.oid);
6 end;
7 /

Trigger created.

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2     oid NUMBER;
3     ad VARCHAR2(20);
4     soyad VARCHAR2(20);
5     dogum_tarihi VARCHAR2(10);
6     tel CHAR(11);
7     email VARCHAR2(40);
8     bid NUMBER;
9 BEGIN
10    oid:=&oid;
11    ad:=&ad;
12    soyad:=&soyad;
13    dogum_tarihi:=&dogum_tarihi;
14    tel:=&tel;
15    email:=&email;
16    bid:=&bid;
17    dogum_tarihi:=TO_CHAR(TO_DATE(dogum_tarihi, 'dd/mm/yyyy'), 'dd/mm/yyyy');
18    INSERT_OGRENCILER(oid, ad, soyad, dogum_tarihi, tel, email, bid);
19    DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ. ');
20 END;
21 /

Enter value for oid: 1
old 10:  oid:=&oid;
new 10:  oid:=1;
Enter value for ad: 'Ayse'
old 11:  ad:=&ad;
new 11:  ad:='Ayse';
Enter value for soyad: 'Yilmaz'
old 12:  soyad:=&soyad;
new 12:  soyad:='Yilmaz';
Enter value for dogum_tarihi: '01/01/2002'
old 13:  dogum_tarihi:=&dogum_tarihi;
new 13:  dogum_tarihi:='01/01/2002';
Enter value for tel: '05369874520'
old 14:  tel:=&tel;
new 14:  tel:='05369874520';
Enter value for email: 'ayseyilmaz@gmail.com'
old 15:  email:=&email;
```

```
SQL Plus

new 12:  soyad:='Yilmaz';
Enter value for dogum_tarihi: '01/01/2002'
old 13:  dogum_tarihi:=&dogum_tarihi;
new 13:  dogum_tarihi:='01/01/2002';
Enter value for tel: '05369874520'
old 14:  tel:=&tel;
new 14:  tel:='05369874520';
Enter value for email: 'ayseyilmaz@gmail.com'
old 15:  email:=&email;
new 15:  email:='ayseyilmaz@gmail.com';
Enter value for bid: 2
old 16:  bid:=&bid;
new 16:  bid:=2;
KAYIT BASARILIYLA EKLENDİ.

PL/SQL procedure successfully completed.

SQL> select * from ogrenciler;

      OID AD          SOYAD          DOGUM_TAR TEL
-----
EMAIL          BID
-----
2 Ahmet          Kaya          10-FEB-01 05478469852
ahmetkaya@gmail.com 1
3 Betul          Yalcin        12-OCT-02 05412897456
betulyalcin@gmail.com 1
4 Hasan          Sahin         01-MAY-02 05478455896
hasansahin@gmail.com 4

      OID AD          SOYAD          DOGUM_TAR TEL
-----
EMAIL          BID
-----
1 Ayse          Yilmaz        01-JAN-02 05369874520
ayseyilmaz@gmail.com 2

SQL> select * from ogrenci_ders_not;

      OID      DID      VIZE      FINAL      ORTALAMA
-----
2          4          90          70          80
3          4          75          100         87.5
4          1          50          80          65
1
```

```

create or replace trigger
ogretmenler_trigger_insert
after insert on ogretmenler
for each row
begin
    insert into ogretmen_ders (ogrt_id) values
(:new.ogrt_id);
end;
/

```

```

Seç SQL Plus

SQL> create or replace trigger ogretmenler_trigger_insert
2  after insert on ogretmenler
3  for each row
4  begin
5      insert into ogretmen_ders (ogrt_id) values (:new.ogrt_id);
6  end;
7  /

Trigger created.

```

```

SQL Plus

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2  ogrt_id NUMBER;
3  ad VARCHAR2(20);
4  soyad VARCHAR2(20);
5  dogum_tarihi VARCHAR2(10);
6  tel CHAR(11);
7  email VARCHAR2(40);
8  bid NUMBER;
9  unvan_id NUMBER;
10 BEGIN
11  ogrt_id:=&ogrt_id;
12  ad:=&ad;
13  soyad:=&soyad;
14  dogum_tarihi:=&dogum_tarihi;
15  tel:=&tel;
16  email:=&email;
17  bid:=&bid;
18  unvan_id:=&unvan_id;
19  dogum_tarihi:=TO_CHAR(TO_DATE(dogum_tarihi, 'dd/mm/yyyy'), 'dd/mm/yyyy');
20  INSERT_OGRETMENLER(ogrt_id, ad, soyad, dogum_tarihi, tel, email, bid, unvan_id);
21  DBMS_OUTPUT.PUT_LINE('KAYIT BASARILIYLA EKLENDİ. ');
22 END;
23 /

Enter value for ogrt_id: 1
old 11:  ogrt_id:=&ogrt_id;
new 11:  ogrt_id:=1;
Enter value for ad: 'Hakan'
old 12:  ad:=&ad;
new 12:  ad='Hakan';
Enter value for soyad: 'Yilmaz'
old 13:  soyad:=&soyad;
new 13:  soyad='Yilmaz';
Enter value for dogum_tarihi: '01/01/1970'
old 14:  dogum_tarihi:=&dogum_tarihi;
new 14:  dogum_tarihi='01/01/1970';
Enter value for tel: '05367854369'
old 15:  tel:=&tel;
new 15:  tel='05367854369';
Enter value for email: 'hakanyilmaz@gmail.com'
old 16:  email:=&email;
new 16:  email='hakanyilmaz@gmail.com';
Enter value for bid: 2
old 17:  bid:=&bid;
new 17:  bid:=2;
Enter value for unvan_id: 1
old 18:  unvan_id:=&unvan_id;
new 18:  unvan_id:=1;
KAYIT BASARILIYLA EKLENDİ.

```

```
SQL> select * from ogretmen_ders;
```

OGRT_ID	DID
2	4
3	6
4	1
1	

## 7. select sorguları

SET SERVEROUTPUT ON

DECLARE

i NUMBER;

j NUMBER;

d\_bolum\_ad bolumler.bolum\_ad%TYPE;

d\_bid bolumler.bid%TYPE;

d\_bolum\_blok bolumler.bolum\_blok%TYPE;

d\_bolum\_mail bolumler.bolum\_mail%TYPE;

BEGIN

d\_bolum\_ad:=&bolum\_ad;

d\_bid:=&bid;

FOR i IN (

SELECT bolum\_blok, bolum\_mail FROM bolumler WHERE (d\_bolum\_ad IS NULL OR bolum\_ad = d\_bolum\_ad))

LOOP

d\_bolum\_blok := i.bolum\_blok;

d\_bolum\_mail := i.bolum\_mail;

DBMS\_OUTPUT.PUT\_LINE('Bolum Ad: ' || d\_bolum\_ad || ', Bolum Blok: ' || d\_bolum\_blok || ', Bolum Mail: ' || d\_bolum\_mail);

END LOOP;

FOR j IN (

SELECT bolum\_blok, bolum\_mail FROM bolumler WHERE (d\_bid IS NULL OR bid = d\_bid))

LOOP

d\_bolum\_blok := j.bolum\_blok;

d\_bolum\_mail := j.bolum\_mail;

DBMS\_OUTPUT.PUT\_LINE('Bolum Id: ' || d\_bid || ', Bolum Blok: ' || d\_bolum\_blok || ', Bolum Mail: ' || d\_bolum\_mail);

END LOOP;

END;

/

```
SQL Plus

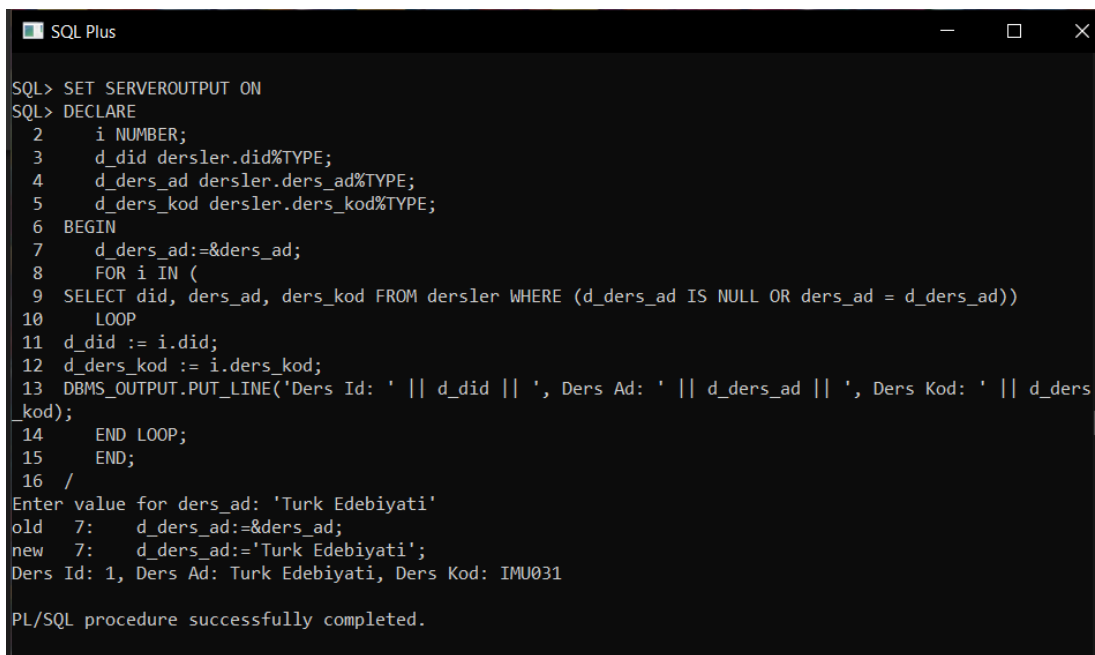
SQL> SET SERVEROUTPUT ON
SQL> DECLARE
  2   i NUMBER;
  3   j NUMBER;
  4   d_bolum_ad bolumler.bolum_ad%TYPE;
  5   d_bid bolumler.bid%TYPE;
  6   d_bolum_blok bolumler.bolum_blok%TYPE;
  7   d_bolum_mail bolumler.bolum_mail%TYPE;
  8 BEGIN
  9   d_bolum_ad:=&bolum_ad;
 10   d_bid:=&bid;
 11   FOR i IN (
 12     SELECT bolum_blok, bolum_mail FROM bolumler WHERE (d_bolum_ad IS NULL OR bolum_ad = d_bolum_ad))
 13   LOOP
 14     d_bolum_blok := i.bolum_blok;
 15     d_bolum_mail := i.bolum_mail;
 16     DBMS_OUTPUT.PUT_LINE('Bolum Ad: ' || d_bolum_ad || ', Bolum Blok: ' || d_bolum_blok || ', Bolum Mail: ' || d_bolum_mail);
 17   END LOOP;
 18   FOR j IN (
 19     SELECT bolum_blok, bolum_mail FROM bolumler WHERE (d_bid IS NULL OR bid = d_bid))
 20   LOOP
 21     d_bolum_blok := j.bolum_blok;
 22     d_bolum_mail := j.bolum_mail;
 23     DBMS_OUTPUT.PUT_LINE('Bolum Id: ' || d_bid || ', Bolum Blok: ' || d_bolum_blok || ', Bolum Mail: ' || d_bolum_mail);
 24   END LOOP;
 25 END;
 26 /
Enter value for bolum_ad: 'Makine Muhendisligi'
old 9:   d_bolum_ad:=&bolum_ad;
new 9:   d_bolum_ad:='Makine Muhendisligi';
Enter value for bid: 3
old 10:  d_bid:=&bid;
new 10:  d_bid:=3;
Bolum Ad: Makine Muhendisligi, Bolum Blok: A , Bolum Mail: mak@imu.edu.tr
Bolum Id: 3, Bolum Blok: A , Bolum Mail: mat@imu.edu.tr

PL/SQL procedure successfully completed.
```

```

SET SERVEROUTPUT ON
DECLARE
    i NUMBER;
    d_did dersler.did%TYPE;
    d_ders_ad dersler.ders_ad%TYPE;
    d_ders_kod dersler.ders_kod%TYPE;
BEGIN
    d_ders_ad:=&ders_ad;
    FOR i IN (
        SELECT did, ders_ad, ders_kod FROM dersler WHERE (d_ders_ad IS NULL OR ders_ad =
            d_ders_ad))
    LOOP
        d_did := i.did;
        d_ders_kod := i.ders_kod;
        DBMS_OUTPUT.PUT_LINE('Ders Id: ' || d_did || ', Ders Ad: ' || d_ders_ad || ', Ders Kod: ' ||
            d_ders_kod);
    END LOOP;
END;
/

```



```

SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2     i NUMBER;
3     d_did dersler.did%TYPE;
4     d_ders_ad dersler.ders_ad%TYPE;
5     d_ders_kod dersler.ders_kod%TYPE;
6 BEGIN
7     d_ders_ad:=&ders_ad;
8     FOR i IN (
9         SELECT did, ders_ad, ders_kod FROM dersler WHERE (d_ders_ad IS NULL OR ders_ad = d_ders_ad))
10    LOOP
11        d_did := i.did;
12        d_ders_kod := i.ders_kod;
13        DBMS_OUTPUT.PUT_LINE('Ders Id: ' || d_did || ', Ders Ad: ' || d_ders_ad || ', Ders Kod: ' || d_ders
_kod);
14    END LOOP;
15    END;
16    /
Enter value for ders_ad: 'Turk Edebiyati'
old 7:   d_ders_ad:=&ders_ad;
new 7:   d_ders_ad:='Turk Edebiyati';
Ders Id: 1, Ders Ad: Turk Edebiyati, Ders Kod: IMU031

PL/SQL procedure successfully completed.

```

## 8. Bilgisayar mühendisliği dersi tekrar etmiştir. DELETE\_DUPLICATE prosedürü ile tekrar eden kayıt silinmiştir.

```
create or replace procedure DELETE_DUPLICATE (
    d_tablo_adi IN VARCHAR2,
    d_sutun_adi IN VARCHAR2)
as
begin
    EXECUTE IMMEDIATE 'DELETE FROM ' || d_tablo_adi || '
    WHERE bid NOT IN (SELECT MIN(bid) FROM ' || d_tablo_adi || '
    GROUP BY ' || d_sutun_adi || ')';
    DBMS_OUTPUT.PUT_LINE('Tekrar eden kayıtlar silindi.');
```

end;

/

SET SERVEROUTPUT ON

DECLARE

    tablo\_adi VARCHAR2(20);

    sutun\_adi VARCHAR2(20);

BEGIN

    tablo\_adi:=&tablo\_adi;

    sutun\_adi:=&sutun\_adi;

    DELETE\_DUPLICATE(tablo\_adi, sutun\_adi);

END;

/

SQL Plus

```
SQL> select * from bolumler;
```

BID	BOLUM_AD	BO
-----		
BOLUM_MAIL		
-----		
1	Bilgisayar Muhendisligi	A
bil@imu.edu.tr		
2	Makine Muhendisligi	A
mak@imu.edu.tr		
3	Matematik Muhendisligi	A
mat@imu.edu.tr		
-----		
BID	BOLUM_AD	BO
-----		
BOLUM_MAIL		
-----		
4	Tip	B
tip@imu.edu.tr		
5	Bilgisayar Muhendisligi	A
bil@imu.edu.tr		

```
SQL> create or replace procedure DELETE_DUPLICATE (
2   d_tablo_adi IN VARCHAR2,
3   d_sutun_adi IN VARCHAR2)
4 as
5 begin
6   EXECUTE IMMEDIATE 'DELETE FROM ' || d_tablo_adi || ' WHERE bid NOT IN (SELECT MIN(bid) FROM ' || d_tablo_adi || '
GROUP BY ' || d_sutun_adi || ')';
7   DBMS_OUTPUT.PUT_LINE('Tekrar eden kayıtlar silindi.');
```

8 end;

9 /

Procedure created.

SQL Plus

```
SQL> SET SERVEROUTPUT ON
SQL> DECLARE
2
3   tablo_adi VARCHAR2(20);
4   sutun_adi VARCHAR2(20);
5 BEGIN
6   tablo_adi:=&tablo_adi;
7   sutun_adi:=&sutun_adi;
8   DELETE_DUPLICATE(tablo_adi, sutun_adi);
9 END;
10 /
```

Enter value for tablo\_adi: 'bolumler'

old 6: tablo\_adi:=&tablo\_adi;

new 6: tablo\_adi:= 'bolumler';

Enter value for sutun\_adi: 'bolum\_ad'

old 7: sutun\_adi:=&sutun\_adi;

new 7: sutun\_adi:= 'bolum\_ad';

Tekrar eden kayıtlar silindi.

PL/SQL procedure successfully completed.

```
SQL> select * from bolumler;
```

BID	BOLUM_AD	BO
-----		
BOLUM_MAIL		
-----		
1	Bilgisayar Muhendisligi	A
bil@imu.edu.tr		
2	Makine Muhendisligi	A
mak@imu.edu.tr		
3	Matematik Muhendisligi	A
mat@imu.edu.tr		
-----		
BID	BOLUM_AD	BO
-----		
BOLUM_MAIL		
-----		
4	Tip	B
tip@imu.edu.tr		

```
SQL> drop procedure DELETE_DUPLICATE;
```

Procedure dropped.

**Okçuluk kulübü tekrar etmiştir. Bu tekrar eden kayıt silinmiştir.**

```
create or replace procedure DELETE_DUPLICATE2 (  
    d_tablo_adi IN VARCHAR2,  
    d_sutun_adi IN VARCHAR2)  
as  
begin  
    EXECUTE IMMEDIATE 'DELETE FROM ' || d_tablo_adi || ' WHERE kid NOT IN (SELECT MIN(kid)  
FROM ' || d_tablo_adi || ' GROUP BY ' || d_sutun_adi || ')';  
    DBMS_OUTPUT.PUT_LINE('Tekrar eden kayıtlar silindi.');
```

```
end;  
/  
  
SET SERVEROUTPUT ON  
DECLARE  
    tablo_adi VARCHAR2(20);  
    sutun_adi VARCHAR2(20);  
BEGIN  
    tablo_adi:=&tablo_adi;  
    sutun_adi:=&sutun_adi;  
    DELETE_DUPLICATE2(tablo_adi, sutun_adi);  
END;  
/  

```

```
SQL> select * from kulupler;
```

KID	KULUP_ADI	ZID
1	IEEE	1
2	MedeniyeTekno	3
3	Yazarlik	2
4	Okculuk	4
5	Okculuk	4

```
SQL> create or replace procedure DELETE_DUPLICATE2 (  
2     d_tablo_adi IN VARCHAR2,  
3     d_sutun_adi IN VARCHAR2)  
4 as  
5 begin  
6     EXECUTE IMMEDIATE 'DELETE FROM ' || d_tablo_adi || ' WHERE kid NOT IN (SELECT MIN(kid) FROM ' ||  
d_tablo_adi || ' GROUP BY ' || d_sutun_adi || ')';  
7     DBMS_OUTPUT.PUT_LINE('Tekrar eden kayıtlar silindi.');
```

end;  
/  
Procedure created.

SQL Plus

```
SQL> SET SERVEROUTPUT ON  
SQL> DECLARE  
2     tablo_adi VARCHAR2(20);  
3     sutun_adi VARCHAR2(20);  
4 BEGIN  
5     tablo_adi:=&tablo_adi;  
6     sutun_adi:=&sutun_adi;  
7     DELETE_DUPLICATE2(tablo_adi, sutun_adi);  
8 END;  
9 /
```

```
Enter value for tablo_adi: 'kulupler'  
old 5:  tablo_adi:=&tablo_adi;  
new 5:  tablo_adi:='kulupler';  
Enter value for sutun_adi: 'kulup_adi'  
old 6:  sutun_adi:=&sutun_adi;  
new 6:  sutun_adi:='kulup_adi';  
Tekrar eden kayıtlar silindi.
```

PL/SQL procedure successfully completed.

```
SQL> select * from kulupler;
```

KID	KULUP_ADI	ZID
1	IEEE	1
2	MedeniyeTekno	3
3	Yazarlik	2
4	Okculuk	4