
Programer

David Kostić

1. Informacije o ambulanti



```
[2020-01-06 16:50:18] completed in 5 ms
[2020-01-06 16:50:18] Usluga : 32
[2020-01-06 16:50:18] Naziv usluge : Kastriranje
[2020-01-06 16:50:18] Datum : 06-FEB-08
[2020-01-06 16:50:18] Opis : Kastriranje - Mačak
```

```
CREATE OR REPLACE PROCEDURE selectAMBULANTA(
    p_id IN AMBULANTA.AMBULANTA_ID%TYPE,
    o_usluga OUT AMBULANTA.AMBULANTA_USLUGA_ID%TYPE,
    o_naziv OUT AMBULANTA_USLUGA.NAZIV%TYPE,
    o_datum OUT AMBULANTA.DATUM%TYPE,
    o_opis OUT AMBULANTA.OPIS%TYPE)
IS
BEGIN
    SELECT AMBULANTA.AMBULANTA_USLUGA_ID , AMBULANTA_USLUGA.NAZIV, AMBULANTA.DATUM, AMBULANTA.OPIS
    INTO o_usluga, o_naziv, o_datum, o_opis
    FROM AMBULANTA
    JOIN ambulanta_usluga ON AMBULANTA.AMBULANTA_USLUGA_ID = ambulanta_usluga.ambulanta_usluga_id
    WHERE AMBULANTA_ID = p_id;

END;
/
```

```
--Test
DECLARE
    o_usluga AMBULANTA.AMBULANTA_USLUGA_ID%TYPE;
    o_naziv AMBULANTA_USLUGA.NAZIV%TYPE;
    o_datum AMBULANTA.DATUM%TYPE;
    o_opis AMBULANTA.OPIS%TYPE;
BEGIN
    selectAMBULANTA(2,o_usluga,o_naziv,o_datum, o_opis);

    DBMS_OUTPUT.PUT_LINE('Usluga : ' || o_usluga);
    DBMS_OUTPUT.PUT_LINE('Naziv usluge : ' || o_naziv);
    DBMS_OUTPUT.PUT_LINE('Datum : ' || o_datum);
    DBMS_OUTPUT.PUT_LINE('Opis : ' || o_opis);

END;
/
```

2. Zakazani pregledi

```
CREATE OR REPLACE VIEW zak_pregl
AS
SELECT * FROM AMBULANTA WHERE DATUM > to_date('01.01.1000','DD.MM.YYYY')
ORDER BY DATUM ASC ;
```

```
--Test
SELECT * FROM zak_pregl;
```

	AMBULANTA_ID	AMBULANTA_USLUGA_ID	DATUM	OPIS
1	1	1	2008-02-05 10:00:00	Pregled šape
2	2	32	2008-02-06 08:00:00	Kastriranje - Mačak
3	3	31	2008-02-06 11:00:00	Kastriranje - Pas
4	4	27	2008-02-07 09:00:00	Kiruški zahvat - Pas (lakše)
5	5	2	2008-02-07 12:00:00	Pregled buha i parazita - Mačka
6	6	2	2008-02-07 13:00:00	Pregled buha i parazita - Mačka
7	7	11	2008-02-08 11:00:00	Zaštitna cijeplila - Pas
8	8	12	2008-02-08 11:30:00	Zaštitna cijeplila - Mačka

3.1 Dodavanje pregleda

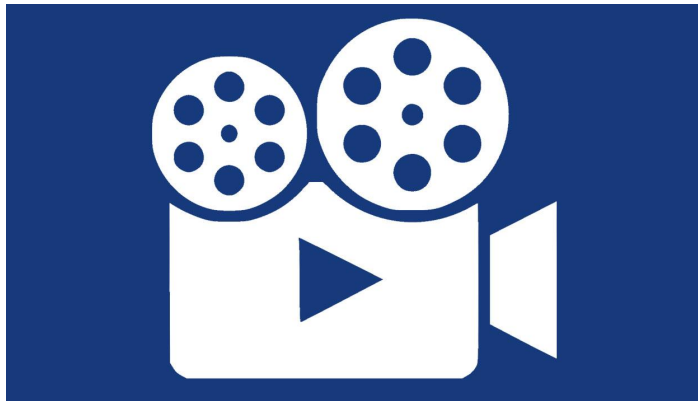


```
create PROCEDURE insertAMBULANTA (  
    p_amb_id IN AMBULANTA.AMBULANTA_ID%TYPE,  
    p_amb_usl_id IN AMBULANTA.AMBULANTA_USLUGA_ID%TYPE,  
    p_datum IN AMBULANTA.DATUM%TYPE,  
    p_opis IN AMBULANTA.OPIS%TYPE)  
  
IS  
BEGIN  
  
    INSERT INTO AMBULANTA (ambulanta_id, ambulanta_usluga_id, datum, opis)  
    values (p_amb_id, p_amb_usl_id, p_datum, p_opis);  
  
    COMMIT;  
  
END;  
/
```

```
--Test  
BEGIN  
    INSERTAMBULANTA(8, 12, TO_DATE('08.02.2008 11:30:00', 'DD.MM.YYYY hh24:mi:ss'), 'Zaštitna cijepila - Mačka');  
END;
```

	AMBULANTA_ID ▲ 1	AMBULANTA_USLUGA_ID ÷	DATUM	OPIS
1	1	1	2008-02-05 10:00:00	Pregled šape
2	2	32	2008-02-06 08:00:00	Kastriranje - Mačak
3	3	31	2008-02-06 11:00:00	Kastriranje - Pas
4	4	27	2008-02-07 09:00:00	Kirurški zahvat - Pas (lakše)
5	5	2	2008-02-07 12:00:00	Pregled buha i parazita - Mačka
6	6	2	2008-02-07 13:00:00	Pregled buha i parazita - Mačka
7	7	11	2008-02-08 11:00:00	Zaštitna cijepila - Pas
8	8	12	2008-02-08 11:30:00	Zaštitna cijepila - Mačka

3.2 Dodavanje doktora

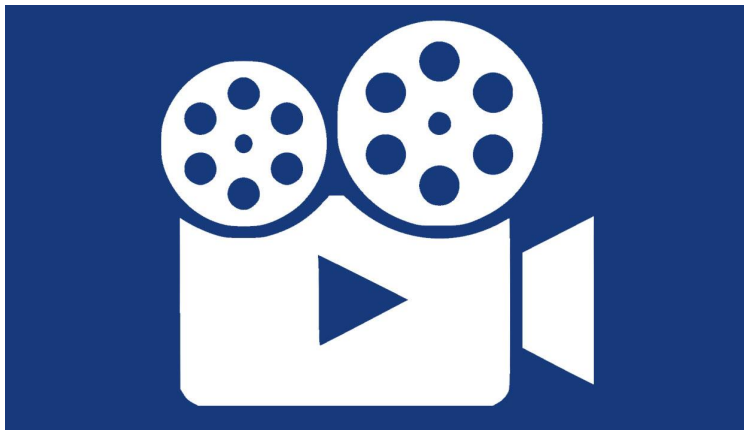


```
create PROCEDURE insertDOKTOR_AMBULANTA (  
    p_amb_dok_id IN AMBULANTA_ZAPOSLENIK.AMBULANTA_ZAPOSLENIK_ID%TYPE,  
    p_amb_id IN AMBULANTA_ZAPOSLENIK.AMBULANTA_ID%TYPE,  
    p_zap_id IN AMBULANTA_ZAPOSLENIK.ZAPOSLENIK_ID%TYPE)  
  
IS  
BEGIN  
  
    INSERT INTO AMBULANTA_ZAPOSLENIK (AMBULANTA_ZAPOSLENIK_ID, AMBULANTA_ID, ZAPOSLENIK_ID)  
    values (p_amb_dok_id, p_amb_id, p_zap_id);  
  
    COMMIT;  
  
END;  
/
```

	AMBULANTA_ZAPOSLENIK_ID ▲ 1	AMBULANTA_ID ÷	ZAPOSLENIK_ID ÷
1	1	1	3
2	2	2	4
3	3	3	4
4	4	4	5
5	5	5	3
6	6	6	3
7	7	7	5
8	8	8	5

```
BEGIN  
    INSERTDOKTOR_AMBULANTA(8, 8, 5);  
END;
```

3.3 Dodavanje KorisnikZivotinja



	KORISNIK_ZIVOTINJA_ID ▲ 1	ZIVOTINJA_ID ÷	KORISNIK_ID ÷
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	1	5
6	6	5	6
7	7	2	7
8	9	6	9
9	10	1	10

```
CREATE OR REPLACE PROCEDURE insertKORISNIK_ZIVOTINJA (  
    p_korziv IN KORISNIK_ZIVOTINJA.KORISNIK_ZIVOTINJA_ID%TYPE,  
    p_ziv_id IN KORISNIK_ZIVOTINJA.ZIVOTINJA_ID%TYPE,  
    p_korisnik_id IN KORISNIK_ZIVOTINJA.KORISNIK_ID%TYPE)  
IS  
BEGIN  
  
    INSERT INTO KORISNIK_ZIVOTINJA (korisnik_zivotinja_id, zivotinja_id, korisnik_id)  
    values (p_korziv, p_ziv_id, p_korisnik_id);  
  
    COMMIT;  
  
END;  
/
```

```
--Test  
BEGIN  
    INSERTKORISNIK_ZIVOTINJA(10, 1, 10);  
END;
```

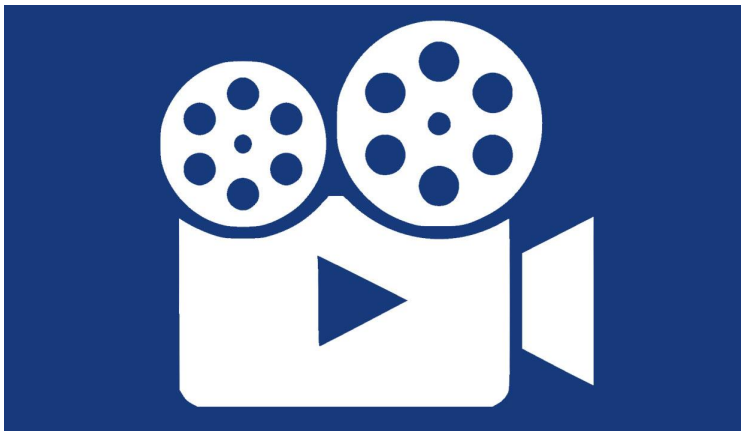
4. Izmjena opisa pregleda



```
CREATE OR REPLACE PROCEDURE updateAMBULANTA_opis (  
    p_id IN AMBULANTA.AMBULANTA_ID%TYPE,  
    p_opis IN AMBULANTA.OPIS%TYPE)  
IS  
BEGIN  
    UPDATE AMBULANTA SET OPIS=p_opis WHERE AMBULANTA_ID =p_id;  
    COMMIT;  
END;  
/  
  
--Test  
BEGIN  
    updateAMBULANTA_opis( p_id: 1, p_opis: 'Pregled šape');  
END;
```

	AMBULANTA_ID	AMBULANTA_USLUGA_ID	DATUM	OPIS
1	1	1	2008-02-05 10:00:00	Pregled šape
2	5	2	2008-02-07 12:00:00	Pregled buha i parazita - Mačka
3	6	2	2008-02-07 13:00:00	Pregled buha i parazita - Mačka
4	7	11	2008-02-08 11:00:00	Zaštitna cijepila - Pas
5	8	12	2008-02-08 11:30:00	Zaštitna cijepila - Mačka
6	4	27	2008-02-07 09:00:00	Kirurški zahvat - Pas (lakše)
7	3	31	2008-02-06 11:00:00	Kastriranje - Pas
8	2	32	2008-02-06 08:00:00	Kastriranje - Mačak

5. Dodavanje korisnika

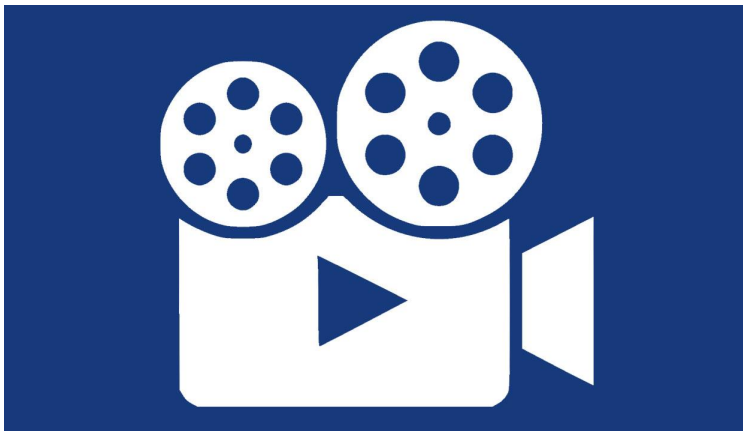


```
CREATE OR REPLACE PROCEDURE insertKORISNIK (  
    p_korisnik_id IN KORISNIK.KORISNIK_ID%TYPE,  
    p_ime IN KORISNIK.IME%TYPE,  
    p_srednje_ime IN KORISNIK.SREDNJE_IME%TYPE,  
    p_prezime IN KORISNIK.PREZIME%TYPE,  
    p_sifra IN KORISNIK.SIFRA%TYPE,  
    p_datum_poc IN KORISNIK.DATUM_POC%TYPE,  
    p_jmbg IN KORISNIK.JMBG%TYPE,  
    p_aktivan IN KORISNIK.AKTIVAN%TYPE,  
    p_opis IN KORISNIK.OPIS%TYPE)  
IS  
BEGIN  
  
    INSERT INTO KORISNIK (korisnik_id, ime, srednje_ime, prezime, sifra, datum_poc, jmbg, aktivan, opis)  
    values (p_korisnik_id, p_ime, p_srednje_ime, p_prezime, p_sifra, p_datum_poc, p_jmbg, p_aktivan, p_opis);  
  
    COMMIT;  
  
END;  
/
```

```
--Test  
BEGIN  
    INSERTKORISNIK(10, 'Dario10', 'D.10', 'Nikolic10', 10000010, TO_DATE('14.02.2008','DD.MM.YYYY'), 19, 1, 'Kontrola psa');  
END;
```

	KORISNIK_ID	IME	SREDNJE_IME	PREZIME	SIFRA	DATUM_POC	JMBG	AKTIVAN	OPIS
2	2	Dario2	D.2	Nikolic2	10000002	2008-02-06 00:00:00	11		1 Kontrola mačke
3	3	Dario3	D.3	Nikolic3	10000003	2008-02-07 00:00:00	12		1 Kontrola krave
4	4	Dario4	D.4	Nikolic4	10000004	2008-02-08 00:00:00	13		1 Kontrola konja
5	5	Dario5	D.5	Nikolic5	10000005	2008-02-09 00:00:00	14		1 Kontrola psa
6	6	Dario6	D.6	Nikolic6	10000006	2008-02-10 00:00:00	15		1 Kontrola svinje
7	7	Dario7	D.7	Nikolic7	10000007	2008-02-11 00:00:00	16		1 Kontrola mačke
8	8	Dario8	D.8	Nikolic8	10000008	2008-02-12 00:00:00	17		1 Kontrola koze
9	9	Dario9	D.9	Nikolic9	10000009	2008-02-13 00:00:00	18		1 Kontrola ovce
10	10	Dario10	D.10	Nikolic10	10000010	2008-02-14 00:00:00	19		1 Kontrola psa

6. Dodavanje životinje



```
CREATE OR REPLACE PROCEDURE insertZIVOTINJA (  
    p_ziv_id IN ZIVOTINJA.ZIVOTINJA_ID%TYPE,  
    p_ziv_tip_id IN ZIVOTINJA.ZIVOTINJA_TIP_ID%TYPE,  
    p_ime IN ZIVOTINJA.IME%TYPE,  
    p_opis IN ZIVOTINJA.OPIS%TYPE)  
  
IS  
BEGIN  
  
    INSERT INTO ZIVOTINJA (ZIVOTINJA_ID, ZIVOTINJA_TIP_ID, IME, OPIS)  
    values (p_ziv_id, p_ziv_tip_id, p_ime, p_opis);  
  
    COMMIT;  
  
END;  
/  
  
BEGIN  
    INSERTZIVOTINJA(7, 1, 'Pas', 'Vau');  
END;
```

	ZIVOTINJA_ID	ZIVOTINJA_TIP_ID	IME	OPIS
1	1	1	Pas	Vau
2	2	2	Mačka	Mjau
3	3	3	Krava	Muuu
4	4	4	Konj	Neigh
5	5	5	Svinja	Oink
6	6	6	Ovca	Baa
7	7	1	Pas	Vau

7. Brisanje korisnika



```
(CREATE OR REPLACE PROCEDURE deleteKORISNIK(p_korisnik_id IN KORISNIK.KORISNIK_ID%TYPE)
IS
BEGIN

    DELETE KORISNIK WHERE KORISNIK_ID = p_korisnik_id;

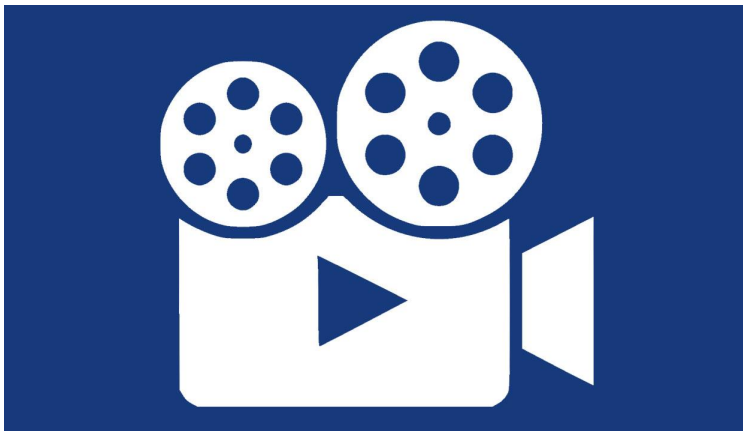
    COMMIT;

END;
/

BEGIN
    deleteKORISNIK(10);
END;
```

	KORISNIK_ID	IME	SREDNJE_IME	PREZIME	SIFRA	DATUM_POC	JMBG	AKTIVAN	OPIS
1	1	Dario1	D.1	Nikolic1	10000001	2008-02-05 00:00:00	10	1	Kontrola psa
2	2	Dario2	D.2	Nikolic2	10000002	2008-02-06 00:00:00	11	1	Kontrola mačke
3	3	Dario3	D.3	Nikolic3	10000003	2008-02-07 00:00:00	12	1	Kontrola krave
4	4	Dario4	D.4	Nikolic4	10000004	2008-02-08 00:00:00	13	1	Kontrola konja
5	5	Dario5	D.5	Nikolic5	10000005	2008-02-09 00:00:00	14	1	Kontrola psa
6	6	Dario6	D.6	Nikolic6	10000006	2008-02-10 00:00:00	15	1	Kontrola svinje
7	7	Dario7	D.7	Nikolic7	10000007	2008-02-11 00:00:00	16	1	Kontrola mačke
8	8	Dario8	D.8	Nikolic8	10000008	2008-02-12 00:00:00	17	1	Kontrola koze
9	9	Dario9	D.9	Nikolic9	10000009	2008-02-13 00:00:00	18	1	Kontrola ovce

8. Brisanje životinje



```
create PROCEDURE deleteZIVOTINJA(p_zivotinja_id IN ZIVOTINJA.ZIVOTINJA_ID%TYPE)
IS
BEGIN

    DELETE ZIVOTINJA WHERE ZIVOTINJA_ID = p_zivotinja_id;

    COMMIT;

END;
/

--Test
BEGIN
    deleteZIVOTINJA(7);
END;
```

	ZIVOTINJA_ID	ZIVOTINJA_TIP_ID	IME	OPIS
1	1	1	Pas	Vau
2	2	2	Mačka	Mjau
3	3	3	Krava	Muuu
4	4	4	Konj	Neigh
5	5	5	Svinja	Oink
6	6	6	Ovca	Baa

9. Svi pregledi za korisnika

```
CREATE OR REPLACE PACKAGE svi_preg_kor_id
as
    type test_record is record (AMBULANTA_ID number, ZIVOTINJA_ID number, AMBULANTA_USLUGA_ID number, datum date); --sto ce vratiti
    type test_table is table of test_record;

    function vrati_tablicu(kor_id IN NUMERIC) return test_table pipelined;

end;
/
```

```
create or replace package body svi_preg_kor_id
as
    function vrati_tablicu(kor_id IN NUMERIC) return test_table pipelined
    is
    begin
        for item in (
            select A.AMBULANTA_ID AMBULANTA_ID, KZ.ZIVOTINJA_ID ZIVOTINJA_ID, A.AMBULANTA_USLUGA_ID AMBULANTA_USLUGA_ID, A.DATUM DATUM
            from AMBULANTA_KORISNIK_ZIVOTINJA AKZ
            join KORISNIK_ZIVOTINJA KZ
            on AKZ.KORISNIK_ZIVOTINJA_ID = KZ.KORISNIK_ZIVOTINJA_ID
            JOIN AMBULANTA A ON AKZ.AMBULANTA_ID = A.AMBULANTA_ID WHERE KZ.KORISNIK_ID = kor_id
        ) loop
            pipe row (item);
        end loop;
        return;
    end vrati_tablicu;

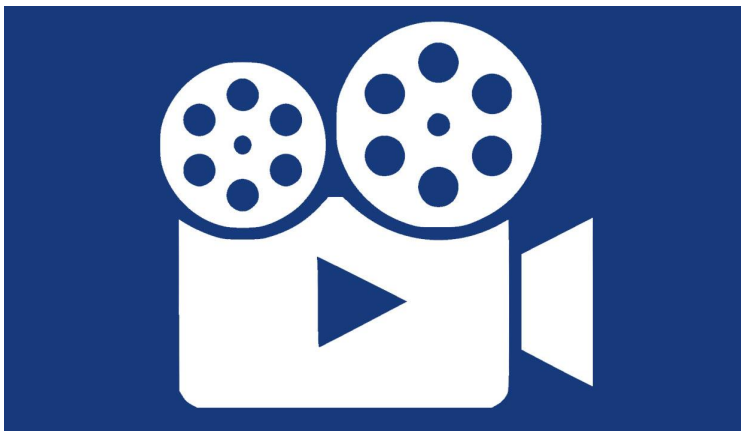
end;
/
```

```
--Test
SELECT * FROM table(svi_preg_kor_id.vrati_tablicu(5));
```

	AMBULANTA_ID ÷	ZIVOTINJA_ID ÷	AMBULANTA_USLUGA_ID ÷	DATUM ÷
1	4	1	27	2008-02-07 09:00:00

10. Svi korisnici i njihove žiovtinje (i korisnici bez životinja)

```
CREATE OR REPLACE VIEW korisnik_view AS
  SELECT KORISNIK.korisnik_id, KORISNIK_ZIVOTINJA.zivotinja_id
  FROM KORISNIK
  LEFT JOIN KORISNIK_ZIVOTINJA ON KORISNIK.korisnik_id=KORISNIK_ZIVOTINJA.korisnik_id
  ORDER BY korisnik_id;
```



	KORISNIK_ID ▲ 1	ZIVOTINJA_ID ▼ 2
1	1	1
2	2	2
3	3	3
4	4	4
5	5	1
6	6	5
7	7	2
8	8	<null>
9	9	6

11. Plaća zaposlenika ID za n-ti mjesec u m-toj godini

```
CREATE OR REPLACE PROCEDURE zap_placa (  
  p_zap_id IN ZAPOSLENIK.ZAPOSLENIK_ID%TYPE,  
  p_DD IN NUMERIC,  
  p_YYYY IN NUMERIC,  
  o_placa OUT NUMERIC  
)  
IS  
  var_satnica NUMERIC(8,2);  
  var_sum_sat NUMERIC(8,2);  
BEGIN  
  
  SELECT SATNICA INTO var_satnica FROM RADNI_STATUS  
  WHERE ZAPOSLENIK_ID = p_zap_id AND DATUM_POCETKA = (SELECT MAX(DATUM_POCETKA) FROM RADNI_STATUS GROUP BY ZAPOSLENIK_ID HAVING ZAPOSLENIK_ID = p_zap_id);  
  
  SELECT SUM(ODRADENI_SATI) INTO var_sum_sat FROM ZAPOSLENICI_DOLAZAK  
  WHERE EXTRACT(month FROM DATUM) = p_DD AND EXTRACT(year FROM DATUM) = p_YYYY GROUP BY ZAPOSLENIK_ID HAVING ZAPOSLENIK_ID = p_zap_id;  
  
  o_placa := var_satnica * var_sum_sat;  
  
END;
```

```
[2020-01-09 14:27:11] completed in 13 ms  
[2020-01-09 14:27:11] Opis : 426
```

```
DECLARE  
  o_placa NUMERIC(8,2);  
BEGIN  
  
  zap_placa(5,2,2008,o_placa);  
  
  DBMS_OUTPUT.PUT_LINE('Opis : ' || o_placa);  
  
END;
```

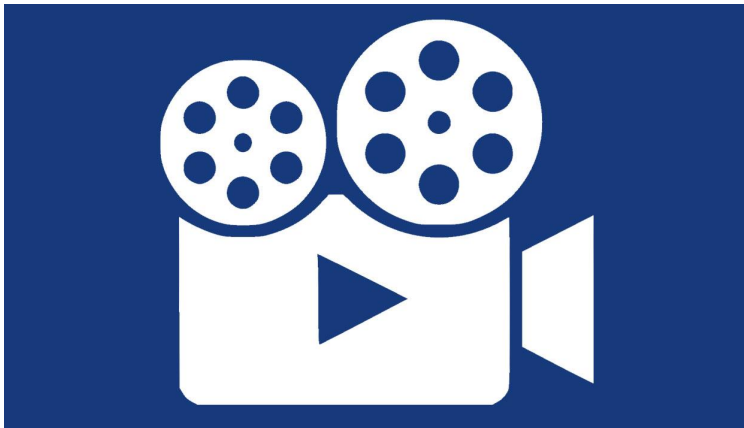

12. Update vrijeme dolaska



```
CREATE OR REPLACE PROCEDURE updateZAPOSLENIK_dolazak (  
    p_id IN ZAPOSLENICI_DOLAZAK.ZAPOSLENIK_ID%TYPE,  
    p_dat_dolaska IN ZAPOSLENICI_DOLAZAK.DATUM_DOLASKA%TYPE)  
IS  
BEGIN  
    UPDATE ZAPOSLENICI_DOLAZAK SET DATUM_DOLASKA=p_dat_dolaska WHERE ZAPOSLENIK_ID =p_id;  
    COMMIT;  
END;  
/  
  
--Test  
SELECT * FROM ZAPOSLENICI_DOLAZAK;  
  
BEGIN  
    updateZAPOSLENIK_dolazak(1, TO_DATE('01.02.2008 07:00:00', 'DD.MM.YYYY hh24:mi:ss'));  
END;
```

	ZAPOSLENIK_ID	DATUM	DATUM_DOLASKA	DATUM_ODLASKA
1	1	2008-02-01 08:00:00	2008-02-01 07:00:00	2008-02-01 14:00:00
2	2	2008-02-01 08:00:00	2008-02-01 08:00:00	2008-02-01 14:00:00
3	3	2008-02-01 08:00:00	2008-02-01 08:00:00	2008-02-01 14:00:00
4	4	2008-02-01 08:00:00	2008-02-01 08:00:00	2008-02-01 14:00:00
5	5	2008-02-01 08:00:00	2008-02-01 08:00:00	2008-02-01 14:00:00
6	1	2008-02-02 08:00:00	2008-02-01 07:00:00	0001-01-02 00:00:00
7	2	2008-02-02 08:00:00	2008-02-02 08:00:00	0001-01-02 00:00:00
8	3	2008-02-02 08:00:00	2008-02-02 08:00:00	0001-01-02 00:00:00
9	4	2008-02-02 08:00:00	2008-02-02 08:00:00	0001-01-02 00:00:00

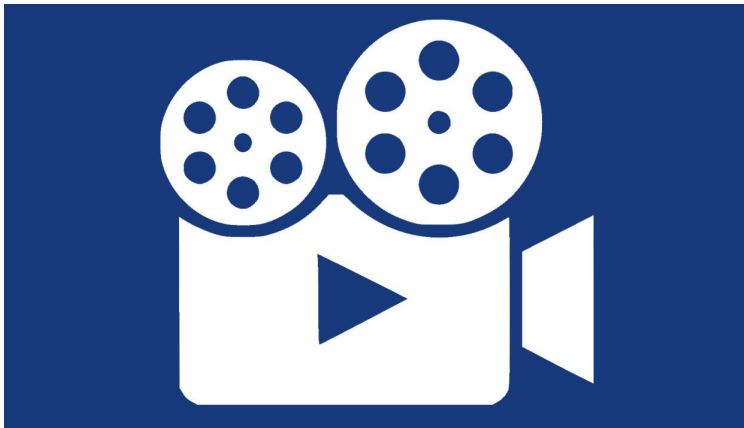
13. Izračunaj cijenu za pregled



```
[2020-01-06 20:01:09] completed in 16 ms  
[2020-01-06 20:01:09] Cijena : 80
```

```
CREATE OR REPLACE PROCEDURE selectAMBULANTA_USLUGA_CIJENA(  
    p_id IN AMBULANTA_USLUGA.AMBULANTA_USLUGA_ID%TYPE,  
    o_cijena OUT AMBULANTA_USLUGA.CIJENA%TYPE)  
IS  
BEGIN  
  
    SELECT CIJENA  
    INTO o_cijena  
    FROM AMBULANTA_USLUGA WHERE AMBULANTA_USLUGA_ID = p_id;  
  
END;  
  
/  
--Test  
DECLARE  
    o_cijena AMBULANTA_USLUGA.AMBULANTA_USLUGA_ID%TYPE;  
BEGIN  
  
    selectAMBULANTA_USLUGA_CIJENA(2,o_cijena);  
  
    DBMS_OUTPUT.PUT_LINE('Cijena : ' || o_cijena);  
  
END;  
  
/
```

14. Izračunaj cijenu za inspekciju



```
[2020-01-06 22:07:11] completed in 36 ms  
[2020-01-06 22:07:11] Cijena : 200
```

```
CREATE OR REPLACE PROCEDURE selectINSPEKCIJA_CIJENA(  
    p_id IN INSPEKCIJA_TIP.INSPEKCIJA_TIP_ID%TYPE,  
    o_cijena OUT INSPEKCIJA_TIP.CIJENA%TYPE)  
IS  
BEGIN  
  
    SELECT CIJENA  
    INTO o_cijena  
    FROM INSPEKCIJA_TIP WHERE INSPEKCIJA_TIP_ID = p_id;  
  
END;
```

```
--Test  
DECLARE  
    o_cijena INSPEKCIJA_TIP.INSPEKCIJA_TIP_ID%TYPE;  
BEGIN  
  
    selectINSPEKCIJA_CIJENA(3,o_cijena);  
  
    DBMS_OUTPUT.PUT_LINE('Cijena : ' || o_cijena);  
  
END;  
/
```

**Hvala Na
Pažnji**