

## 9. Laboratorijske vježbe – Rješenja

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### Zadatak 1.

**DELIMITER //**

**CREATE FUNCTION orgjedNast(snastavnik INTEGER)**

RETURNS nchar(175) -- 25+1+25+1+1+60+2+60

BEGIN

DECLARE povrat nchar(175);

SELECT CONCAT(imenastavnik, ' ', preznastavnik, ': ',  
O.nazorgjed, ' ', N.nazorgjed)

INTO povrat

FROM nastavnik INNER JOIN orgjed O ON nastavnik.siforgjed=O.siforgjed

INNER JOIN orgjed N ON O.sifnadorgjed = N.siforgjed

WHERE sifnastavnik = snastavnik;

RETURN povrat;

**END//**

SELECT orgjedNast(203);

### Zadatak 2.

**DELIMITER //**

**CREATE FUNCTION noviKoef(sifNast INTEGER)**

RETURNS DECIMAL(3,2)

BEGIN

DECLARE nkoef, procn, procu DECIMAL(3,2);

DECLARE brpoz, brneg INTEGER;

SELECT koef INTO nkoef FROM nastavnik WHERE sifNastavnik = sifNast;

SELECT COUNT(\*), AVG(ocjena) INTO brpoz, procn FROM ispit

WHERE ocjena > 1 AND sifNastavnik = sifNast;

SELECT COUNT(\*) INTO brneg FROM ispit

WHERE ocjena = 1 AND sifNastavnik = sifNast;

SELECT AVG(ocjena) INTO procu FROM ispit WHERE ocjena > 1;

IF (brpoz > brneg AND procn > procu) THEN

SET nkoef = nkoef \* 1.1;

ELSEIF (brneg > brpoz AND procn < procu) THEN

SET nkoef = nkoef \* 0.9;

END IF;

RETURN nkoef;

**END//**

SELECT noviKoef(277); -- stari 3.50, novi 3.85

SELECT noviKoef(289); -- stari 4.70, novi 4.70

SELECT noviKoef(460); -- stari 3.90, novi 3.51

### **Zadatak 3.**

**DELIMITER //**

```
CREATE FUNCTION ocjObrane (mbrS INTEGER, datP DATE)
  RETURNS SMALLINT
  BEGIN
    DECLARE UOcjena SMALLINT;
    IF NOT EXISTS (SELECT mbrstud FROM diplom
                   WHERE mbrstud=mbrs AND datPrijava=datP) THEN
      SET UOcjena = NULL;
    ELSE
      SELECT ocjenarad INTO UOcjena FROM diplom
            WHERE mbrstud=mbrs AND datPrijava=datP;
      IF UOcjena IS NULL THEN
        SET UOcjena=0;
      ELSEIF UOcjena <> 1 THEN
        IF (SELECT COUNT(*) FROM dipkom
            WHERE mbrstud=mbrs
            AND datPrijava=datP AND ocjenaUsm=1) > 0 THEN
          SET UOcjena=1;
        ELSEIF (SELECT COUNT(*) FROM dipkom
                WHERE mbrstud=mbrs AND datPrijava=datP) < 3 THEN
          SET UOcjena=0;
        ELSE
          SELECT AVG(ocjenaUsm) INTO UOcjena FROM dipkom
                WHERE mbrstud=mbrs AND datPrijava=datP;
          SET UOcjena = ROUND(UOcjena, 0);
        END IF;
      END IF;
    END IF;
    RETURN UOcjena;
END//
```

#### **a) Izvođenjem naredbe**

```
SELECT ocjObrane(1127, '2045-01-21')
```

**treba se dobiti NULL (u SQL Editor alatu će se ispisati kao prazna "kućica")**

#### **b) Izvođenjem naredbe**

```
SELECT *, ocjObrane(mbrStud, datPrijava) FROM diplom
ORDER BY mbrStud, datPrijava
```

**treba se dobiti**

<i>mbrstud</i>	<i>datPrijava</i>	<i>sifMentor</i>	<i>ocjenaRad</i>	<i>datObrana</i>	<i>ukupOcjena</i>	<i>(expression)</i>
1120	01.02.2000	220	5	29.02.2000		5
1127	03.03.1998	428	2	27.02.2001		1
1127	30.04.1998	428	3	28.05.1998		4
1133	15.02.1999	318	4	15.03.1999		4
1226	19.04.2000	334	1	17.05.2000		1
1226	27.09.2000	334	3	25.10.2000		0
1226	31.01.2001	318		28.02.2001		0
1233	13.04.1999	318	1	11.05.1999		1
1235	14.10.1998	244	4	11.11.1998		0
1286	09.04.1998	244	3	07.05.1998		0
1294	27.09.2000	220	4	25.10.2000		5
1364	09.04.1998	318	4	07.05.1998		1