SA SE SCRIE O INTEROGARE CARE SA AFISEZE coddisc, dendisc, cea\_mai\_mare\_nota, nr\_studenti\_participanti:

Table

Description automatically generated-----Sa se scrie o interogarea care sa afiseze:

SELECT disc\_XY.cod\_disc, den\_disc, MAX(nota) AS cea\_mai\_mare\_nota, COUNT(ex\_XY.matr\_st) AS nr\_studenti\_participanti

FROM disc\_XY INNER JOIN ex\_xy on disc\_XY.cod\_disc=ex\_XY.cod\_disc

GROUP BY disc\_XY.cod\_disc, den\_disc

ORDER BY 2;

SA SE AFISEZE ACEASTA SITUATIE UTILIZAND O PROCEDURA STOCATA CU CURSOR, CONFORM MODELULUI DIN SEMINAR.

-----Sa se afiseze situatia de mai sus utilizand o procedura stocata cu un cursor, conform modelului din seminar.

Text

Description automatically generatedSET SERVEROUTPUT ON;

Table

Description automatically generatedCREATE OR REPLACE PROCEDURE afis\_max\_cursor IS

CURSOR c IS

SELECT disc\_XY.cod\_disc, den\_disc, MAX(nota) AS cea\_mai\_mare\_nota, COUNT(ex\_XY.matr\_st) AS nr\_studenti\_participanti

FROM disc\_XY INNER JOIN ex\_XY on disc\_XY.cod\_disc=ex\_XY.cod\_disc

GROUP BY disc\_XY.cod\_disc, den\_disc

ORDER BY 2;

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Cod disciplina Denumire disciplina Cea mai mare nota Numar participanti');

FOR i IN c LOOP

DBMS\_OUTPUT.PUT\_LINE(i.cod\_disc||' '||i.den\_disc||' '||i.cea\_mai\_mare\_nota||' '||i.nr\_studenti\_participanti);

END LOOP;

END;

/

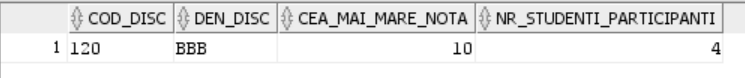
EXECUTE afis\_max\_cursor;

PORNIND TOT DE LA INTEROGAREA INITIALA, SA SE TRANSFORME IN INTEROGARE PENTRU O DISCIPLINA IAR APOI SA SE CONSTRUIASCA PROGRESIV PROCEDURILE DE AFISARE CU PARAMETRU, CU FUNCTIE, CONFORM SEMINARULUI, PRECUM SI PROCEDURILE ANONIME DE APELARE ALE ACESTORA.

---interogare pentru o disciplina

SELECT disc\_XY.cod\_disc, den\_disc, MAX(nota) AS cea\_mai\_mare\_nota, COUNT(ex\_XY.matr\_st) AS nr\_studenti\_participanti

FROM disc\_XY INNER JOIN ex\_xy on disc\_XY.cod\_disc=ex\_XY.cod\_disc

WHERE disc\_XY.cod\_disc=120

GROUP BY disc\_XY.cod\_disc, den\_disc

ORDER BY 2;

---procedura anonima

Text

Description automatically generatedSET SERVEROUTPUT ON;

DECLARE

v\_cod\_disc disc\_XY.cod\_disc%TYPE;

v\_den\_disc disc\_XY.den\_disc%TYPE;

v\_max NUMBER;

v\_nr\_part NUMBER;

BEGIN

SELECT disc\_XY.cod\_disc, den\_disc, MAX(nota), COUNT(ex\_XY.matr\_st) INTO v\_cod\_disc, v\_den\_disc, v\_max, v\_nr\_part

FROM disc\_XY INNER JOIN ex\_xy on disc\_XY.cod\_disc=ex\_XY.cod\_disc

WHERE disc\_XY.cod\_disc=120

GROUP BY disc\_XY.cod\_disc, den\_disc

ORDER BY 2;

DBMS\_OUTPUT.PUT\_LINE('La disciplina cu codul '||v\_cod\_disc||' denumita '||v\_den\_disc||' cea mai mare nota a fost '||v\_max||' si au participat '||v\_nr\_part||' student.');

END;

/

---procedura stocata

SET SERVEROUTPUT ON;

CREATE OR REPLACE PROCEDURE afis\_max IS

Graphical user interface, text

Description automatically generatedv\_cod\_disc disc\_XY.cod\_disc%TYPE;

v\_den\_disc disc\_XY.cod\_disc%TYPE;

v\_max NUMBER;

v\_nr\_part NUMBER;

BEGIN

SELECT disc\_XY.cod\_disc, den\_disc, MAX(nota), COUNT(ex\_XY.matr\_st) INTO v\_cod\_disc, v\_den\_disc, v\_max, v\_nr\_part

FROM disc\_XY INNER JOIN ex\_xy on disc\_XY.cod\_disc=ex\_XY.cod\_disc

WHERE disc\_XY.cod\_disc=120

GROUP BY disc\_XY.cod\_disc, den\_disc

ORDER BY 2;

DBMS\_OUTPUT.PUT\_LINE('La disciplina cu codul '||v\_cod\_disc||' denumita '||v\_den\_disc||' cea mai mare nota a fost '||v\_max||' si au participat '||v\_nr\_part||' student.');

END;

/

EXECUTE afis\_max;

Text

Description automatically generated---procedura de afisare cu parametru

SET SERVEROUTPUT ON;

CREATE OR REPLACE PROCEDURE afis\_max\_p(p\_cod\_disc disc\_XY.cod\_disc%TYPE) IS

v\_cod\_disc disc\_XY.cod\_disc%TYPE;

v\_den\_disc disc\_XY.cod\_disc%TYPE;

v\_max NUMBER;

v\_nr\_part NUMBER;

BEGIN

SELECT disc\_XY.cod\_disc, den\_disc, MAX(nota), COUNT(ex\_XY.matr\_st) INTO v\_cod\_disc, v\_den\_disc, v\_max, v\_nr\_part

FROM disc\_XY INNER JOIN ex\_xy on disc\_XY.cod\_disc=ex\_XY.cod\_disc

WHERE disc\_XY.cod\_disc=p\_cod\_disc

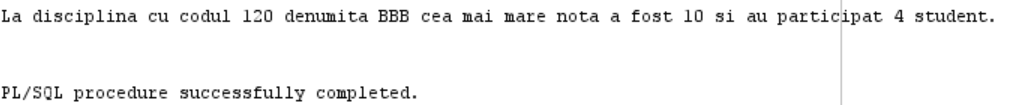
GROUP BY disc\_XY.cod\_disc, den\_disc

ORDER BY 2;

DBMS\_OUTPUT.PUT\_LINE('La disciplina cu codul '||v\_cod\_disc||' denumita '||v\_den\_disc||' cea mai mare nota a fost '||v\_max||' si au participat '||v\_nr\_part||' student.');

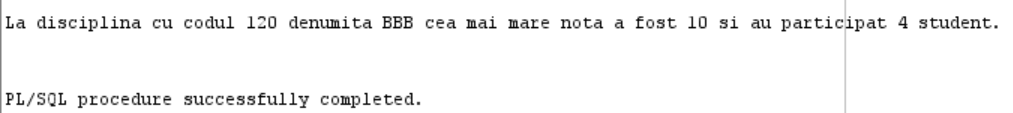
END;

/

--apelare directa

EXECUTE afis\_max\_p(120);

--apelare dintr-o procedura nestocata

BEGIN

afis\_max\_p(120);

END;

/

Text

Description automatically generatedBEGIN

afis\_max\_p(&dati\_codul\_disciplinei);

END;

/

Text

Description automatically generated---transformarea procesurii afis\_max\_p intr-o functie

SET SERVEROUTPUT ON;

CREATE OR REPLACE FUNCTION f\_afis\_max\_p(p\_cod\_disc disc\_XY.cod\_disc%TYPE) RETURN NUMBER IS

v\_cod\_disc disc\_XY.cod\_disc%TYPE;

v\_den\_disc disc\_XY.cod\_disc%TYPE;

v\_max NUMBER;

v\_nr\_part NUMBER;

BEGIN

SELECT disc\_XY.cod\_disc, den\_disc, MAX(nota), COUNT(ex\_XY.matr\_st) INTO v\_cod\_disc, v\_den\_disc, v\_max, v\_nr\_part

FROM disc\_XY INNER JOIN ex\_xy on disc\_XY.cod\_disc=ex\_XY.cod\_disc

WHERE disc\_XY.cod\_disc=p\_cod\_disc

GROUP BY disc\_XY.cod\_disc, den\_disc

ORDER BY 2;

DBMS\_OUTPUT.PUT\_LINE('La disciplina cu codul '||v\_cod\_disc||' denumita '||v\_den\_disc||' cea mai mare nota a fost '||v\_max||' si au participat '||v\_nr\_part||' student.');

RETURN v\_max;

RETURN v\_nr\_part;

END;

/

--apelarea functiei

DECLARE

Graphical user interface, text, application, email

Description automatically generatedv\_f\_cod\_disc disc\_XY.cod\_disc%TYPE;

v\_f\_den\_disc disc\_XY.cod\_disc%TYPE;

v\_f\_max NUMBER;

v\_f\_nr\_part NUMBER;

BEGIN

v\_f\_cod\_disc:=&dati\_codul;

DBMS\_OUTPUT.PUT\_LINE ('Situatia disciplinei cu codul '||v\_f\_cod\_disc);

v\_f\_max:=f\_afis\_max\_p(v\_f\_cod\_disc);

DBMS\_OUTPUT.PUT\_LINE ('Aici se afiseaza cea mai mare nota la aceasta disciplina: '||v\_f\_max);

END;

/

SUPLIMENTAR, LA VARIANTA CU PARAMETRU DE IESIRE SAU LA VARIANTA CU FUNCTIE, IN UNA DIN PROCEDURILE APELANTE SA SE AFISEZE, DUPA CAZ, MESAJUL: La disciplina cu codul ... au / nu au participat toti studentii.

----------Suplimentar, la varianta cu parametru de iesire sau la varianta cu functie, in una din procedurile apelante sa se afiseze, dupa caz, mesajul:"La disciplina cu codul... au/ nu au participat toti studentii."

Text

Description automatically generatedDECLARE

v\_f\_cod\_disc disc\_XY.cod\_disc%TYPE;

v\_f\_den\_disc disc\_XY.cod\_disc%TYPE;

Text

Description automatically generated v\_f\_max NUMBER;

v\_f\_nr\_part NUMBER;

BEGIN

v\_f\_cod\_disc := &dati\_codul;

DBMS\_OUTPUT.PUT\_LINE('Situatia disciplinei cu codul ' || v\_f\_cod\_disc);

SELECT COUNT(\*) INTO v\_f\_nr\_part FROM ex\_XY WHERE cod\_disc = v\_f\_cod\_disc;

IF v\_f\_nr\_part > 0 THEN

DBMS\_OUTPUT.PUT\_LINE('La disciplina cu codul ' || v\_f\_cod\_disc || ' au participat ' || v\_f\_nr\_part || ' persoane.');

ELSE

DBMS\_OUTPUT.PUT\_LINE('La disciplina cu codul ' || v\_f\_cod\_disc || ' nu a participat toti studentii.');

END IF;

END;

/