LAB 2 BOGDAN TATU

```
create sequence student course seq
    start with 1
    increment by 1
    nocycle
    nocache
    noorder;
-- CREATE SIGNUP TABLE
create table "SIGNUP" (
    "ID" number(10, 0) default student_course_seq.nextval,
    "STUDENT ID" varchar2(10),
    "COURSE ID" number(4, 0),
    "YEAR" date,
    constraint "SIGNUP_PK" primary key ("ID"),
    constraint "SIGNUP_FK_STUDENT" foreign key ("STUDENT_ID") references "STUDENT"
("ID") on delete cascade,
    constraint "SIGNUP_FK_COURSE" foreign key ("COURSE_ID") references "COURSE"
("ID") on delete cascade,
    constraint "DUPLICATE_SIGNUP" unique ("STUDENT_ID", "COURSE_ID", "YEAR")
-- CREATE GRADE TABLE
create table "GRADE" (
    "STUDENT ID" varchar2(10),
    "COURSE ID" number(4, 0),
    "DATE" date,
    "ELP" char(1),
    "VALUE" number(3,1),
    constraint "GRADE_FK_STUDENT" foreign key ("STUDENT_ID") references "STUDENT"
("ID") on delete cascade,
    constraint "GRADE FK COURSE" foreign key ("COURSE ID") references "COURSE"
("ID") on delete cascade,
    constraint "GRADE CK ELP" check ("ELP" in ('E', 'L', 'P')),
    constraint "GRADE CK VALUE" check ("VALUE" between 1 and 10)
-- INSERT IN DEPARTMENT
insert into "DEPARTMENT"
values (1, 'Computers', 'AC')
insert into "DEPARTMENT"
values (2, 'Electronics', 'ETcTi')
-- INSERT IN TEACHER
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insert into "TEACHER"
values ('P1.100.111', 'Ion', 'Stanescu', 4200.57, 2)
insert into "TEACHER"
values ('P1.105.254', 'Joe', 'Mayor', 3895.11, 1)
-- INSERT IN STUDENT
insert into "STUDENT"
values ('LM6-10.425', 'Ioan', 'Popescu', 3, 1)
insert into "STUDENT"
values ('LM2-12.891', 'Andrei', 'Floraru', 2, 1)
insert into "STUDENT"
values ('LM8-16.112', 'Ioan', 'Popescu', 1, 2)
insert into "STUDENT"
values ('LM8-18.112', 'Razvan', 'Bratu', 4, 2)
-- INSERT IN COURSE
insert into "COURSE"
values (1, 'Electrice Engines', 'P1.100.111', 5)
insert into "COURSE"
values (2, 'Programming', 'P1.105.254', 4)
insert into "COURSE"
values (3, '00P', 'P1.105.254', 4)
-- INSERT IN SIGNUP
insert into "SIGNUP" ("STUDENT_ID", "COURSE_ID", "YEAR")
values ('LM6-10.425', 2, TO_DATE('2019', 'yyyy'))
insert into "SIGNUP" ("STUDENT_ID", "COURSE_ID", "YEAR")
values ('LM8-16.112', 1, TO_DATE('2021', 'yyyy'))
insert into "SIGNUP" ("STUDENT_ID", "COURSE_ID", "YEAR")
values ('LM2-12.891', 3, TO_DATE('2020', 'yyyy'))
insert into "SIGNUP" ("STUDENT ID", "COURSE ID", "YEAR")
values ('LM8-18.112', 1, TO_DATE('2019', 'yyyy'))
-- INSERT IN GRADE
insert into "GRADE"
values ('LM6-10.425', 2, CURRENT_DATE, 'E', 9)
insert into "GRADE"
values ('LM6-10.425', 2, CURRENT_DATE, 'L', 7)
insert into "GRADE"
values ('LM6-10.425', 2, CURRENT_DATE, 'L', 10)
```

```
-- DELETE FROM STUDENT
delete from "STUDENT"
where "NAME" = 'Razvan'
    and "SURNAME" = 'Bratu'
    and "DEPARTMENT" = 2;
-- UPDATE GRADE
update "GRADE"
set "VALUE" = "VALUE" + 1
where "VALUE" < 10
    and "ELP" = 'L'
-- JOIN STUDENT, DEPARTMENT, TEACHER, COURSE TABLES
select STUDENT.ID, COURSE.ID from STUDENT
inner join DEPARTMENT
on STUDENT.DEPARTMENT = DEPARTMENT.ID
inner join TEACHER
on TEACHER.DEPARTMENT = DEPARTMENT.ID
inner join COURSE
on COURSE.TEACHER_ID = TEACHER.ID
where STUDENT.NAME = 'Ioan'
    and STUDENT.SURNAME = 'Popescu'
    and COURSE.NAME = 'Programming'
```