***LAB 1 BOGDAN TATU***

Student:

- id: varchar2(10)

- name: varchar2(20)

- surname: varchar(20)

- study\_year: number(1,0)

- department: number(2,0)

- primary key: id

Teacher:

- id: varchar2(10)

- name: varchar2(20)

- surname: varchar(20)

- salary: number(7,2)

- department: number(2,0)

- primary key: id

Course:

- id: varchar2(10)

- teacher\_id: varchar2(10)

- credits: number(2,0)

+ name: varchar2(30)

- primary key: id

Department:

- id: number(2,0)

- name: varchar2(20)

- faculty: varchar2(5)

- primary key: id

Student\_Course:

- student id: varchar2(10)

- course id: varchar2(10)

- primary key: student id, course id

+ DROP TABLE

*-- CREATE DEPARTMENT TABLE*

create table "DEPARTMENT" (

    "ID"        number(2, 0),

    "NAME"      varchar2(20) not null,

    "FACULTY"   varchar2(5) not null,

    constraint "DEPARTMENT\_PK" primary key ("ID")

)

*-- CREATE STUDENT TABLE*

create table "STUDENT" (

    "ID" varchar2(10),

    "NAME" varchar2(20) not null,

    "SURNAME" varchar2(20) not null,

    "STUDY\_YEAR" number(1, 0),

    "DEPARTMENT" number,

    constraint "STUDENT\_PK" primary key ("ID"),

    constraint "STUDENT\_FK\_DEPARTMENT" foreign key ("DEPARTMENT") references "DEPARTMENT"("ID") on delete cascade,

    constraint "STUDY\_YEAR\_CK" check (1 <= STUDY\_YEAR and STUDY\_YEAR <= 7)

)

*-- CREATE TEACHER TABLE*

create table "TEACHER" (

    "ID" varchar2(10),

    "NAME" varchar2(20) not null,

    "SURNAME" varchar2(20) not null,

    "BASE\_SALARY" number(7, 2),

    "DEPARTMENT" number,

    constraint "TEACHER\_PK" primary key ("ID"),

    constraint "TEACHER\_FK\_DEPARTMENT" foreign key ("DEPARTMENT") references "DEPARTMENT"("ID") on delete cascade,

    constraint "BASE\_SALARY\_CK" check (BASE\_SALARY >= 0)

)

*-- CREATE COURSE TABLE*

create table "COURSE" (

    "ID" number(4, 0),

    "NAME" varchar2(30) not null,

    "TEACHER\_ID" varchar2(10),

    "CREDITS" number(2, 0),

    constraint "COURSE\_PK" primary key ("ID"),

    constraint "COURSE\_FK\_TEACHER" foreign key ("TEACHER\_ID") references "TEACHER" ("ID") on delete cascade

)