ANEXĂ

1. CREAREA BAZEI DE DATE ȘI A TABELELOR

```
-- ---------------------------------------------------
-- CREAREA BAZEI DE DATE
-- ---------------------------------------------------


drop database if exists owo;
create database if not exists owo;
use owo;


-- ---------------------------------------------------
-- CREAREA TABELELOR
-- ---------------------------------------------------


-- TABEL PENTRU DATELE DE LOGARE
DROP TABLE IF EXISTS date_logare;
create table if not exists date_logare
(
        id_utilizator int primary key,
    nume_utilizator varchar(100) not null unique,
    pass_hash varchar(100) not null
);


-- TABEL PENTRU UTILIZATOR
DROP TABLE IF EXISTS utilizator;
```

```sql
create table if not exists utilizator
(
        id_utilizator int primary key auto_increment,
    id_tip_utilizator int not null,
        cnp varchar(13) not null unique,
    nume varchar(50) not null,
    prenume varchar(100) not null,
    adresa varchar(200) not null,
    telefon varchar(10) not null,
    email varchar(50) not null,
    iban varchar(24) not null,
    nr_contract int not null unique
);


-- TABEL PENTRU TIPURILE DE UTILIZATOR
DROP TABLE IF EXISTS tip_utilizator;
create table if not exists tip_utilizator
(
        id_tip_utilizator int primary key auto_increment,
    nume varchar(20) not null,
    grad int not null
);


-- TABEL PENTRU TIPUL DE UTILIZATOR PROFESOR
DROP TABLE IF EXISTS profesori;
create table if not exists profesori
(
        id_profesor int primary key,
```

```sql
    minim_ore int not null,

    maxim_ore int not null,

    departament varchar(50) not null

);


-- TABEL PENTRU RETINEREA DATELOR DESPRE CONDITIILE IN CARE UN
PROFESOR ALEGE SA ISI DESFASOARE MATERIE
-- ALEGAND ACTIVITATILE SI PROCENTAJELE ACESTORA
DROP TABLE IF EXISTS conditie;

create table if not exists conditie

(

        id_conditie int primary key auto_increment,

    id_predare int not null,

    id_activitate int not null,

    procentaj int not null

);

alter table conditie

add constraint combinatie_unica_conditie

unique index(id_predare, id_activitate);


-- TABEL PENTRU CALENDAR

DROP TABLE IF EXISTS calendar;

create table if not exists calendar

(

        id_programare int primary key auto_increment,

    id_conditie int not null,

    data_incepre datetime not null,

    data_terminare datetime not null,

    evaluare bool not null,
```

```sql
    nr_max_studenti int not null
);


-- TABEL IN CARE RETINEM PROFESORII SI CE MATERII PREDAU ACESTIA
DROP TABLE IF EXISTS  predare;
create table if not exists predare
(
        id_predare int primary key auto_increment,
    id_profesor int not null,
    id_materie int not null
);
alter table predare
add constraint combinatie_unica_predare
unique index(id_profesor, id_materie);


-- TABEL PENTRU MATERII
DROP TABLE IF EXISTS materie;
create table if not exists materie
(
        id_materie int primary key auto_increment,
    nume varchar(100) not null,
    descriere varchar(100),
    an int not null
);


-- TABEL PENTRU ACTIVITATILE DIN CADRUL UNEI MATERII
DROP TABLE IF EXISTS activitate;
create table if not exists activitate
```

```sql
(
        id_activitate int primary key auto_increment,
    denumire_activitate_didactica varchar(50) not null,
    denumire_evaluare varchar(50),
    interval_zile int not null
);


-- TABEL PENTRU CATALOG
DROP TABLE IF EXISTS catalog;
create table if not exists catalog
(
        id_catalog int primary key auto_increment,
    id_student int not null,
    id_conditie int not null,
    nota float not null
);
alter table catalog
add constraint combinatie_unica_catalog
unique index(id_catalog, id_conditie);


-- TABEL PENTRU INSCRIEREA STUDENTULUI LA O ANUMITA MATERIE PREDATA
DE UN ANUMIT PROFESOR
DROP TABLE IF EXISTS inscriere_materie;
create table if not exists inscriere_materie
(
        id_inscriere_m int primary key auto_increment,
    id_student int not null,
    id_predare int not null
);
```

```sql
alter table inscriere_materie

add constraint combinatie_unica_inscriere_m

unique index(id_student, id_predare);


-- TABEL PENTRU INSCRIEREA STUDENTULUI LA O ANUMITA ACTIVITATE

DROP TABLE IF EXISTS inscriere_activitate;

create table if not exists inscriere_activitate

(

        id_inscriere_a int primary key auto_increment,

    id_programare int not null,

    id_student int not null

);

alter table inscriere_activitate

add constraint combinatie_unica_inscriere_a

unique index(id_student, id_programare);


-- TABEL PENTRU MESAJELE DIN CADRUL UNUI GRUP DE STUDIU

DROP TABLE IF EXISTS mesaje;

create table if not exists mesaje

(

        id_mesaje int primary key auto_increment,

        mesaj varchar(500) not null,

    id_grup_studiu int not null,

    id_student int not null

);


-- TABEL PENTRU TIPUL DE UTILIZATOR STUDENT

DROP TABLE IF EXISTS student;
```

```sql
create table if not exists student
(
        id_student int primary key,
    an int not null,
    nr_ore int not null
);


-- TABEL PENTRU GRUPURILE DE STUDIU
DROP TABLE IF EXISTS grupuri_de_studiu;
create table if not exists grupuri_de_studiu
(
        id_grup_studiu int primary key auto_increment,
        id_materie int not null,
    nume varchar(100) not null
);


-- TABEL PENTRU EVENIMENTELE DIN CADRUL GRUPURILOR DE STUDIU
DROP TABLE IF EXISTS eveniment;
create table if not exists eveniment
(
        id_event int primary key auto_increment,
    id_grup_studiu int not null,
    titlu varchar(100) not null,
    descriere varchar(100),
    id_profesor int,
    data_event datetime not null,
    durata time not null,
    nr_min_participanti int not null,
```

```sql
    valabilitate time not null
);


-- TABEL PENTRU PARTICIPANTII LA EVENIMENTELE DIN CADRUL GRUPURILOR DE STUDIU
DROP TABLE IF EXISTS participanti_event;
create table if not exists participanti_event
(
        id_event_mem int primary key auto_increment,
    id_event int not null,
    id_student int not null
);
alter table participanti_event
add constraint combinatie_unica_participanti_event
unique index(id_student, id_event);


-- TABEL PENTRU INBOX-UL STUDENTULUI, UNDE POATE VEDEA MESAJELE
DROP TABLE IF EXISTS inbox;
create table if not exists inbox
(
        id_mesaje int primary key auto_increment,
    id_student int not null,
    titlu varchar(100) not null,
    mesaj varchar(1000) not null
);


-- TABEL PENTRU MEMBRII UNUI GRUP DE STUDIU
DROP TABLE IF EXISTS membrii_grup;
create table if not exists membrii_grup
```

```sql
(
        id_grup_mem int primary key auto_increment,
    id_grup_studiu int not null,
    id_student int not null
);
alter table membrii_grup
add constraint combinatie_unica_membrii_grup
unique index(id_student, id_grup_studiu);
```

2. ADĂUGAREA CHEILOR STRĂINE

```sql
-- ----------------------------------------------------
-- ADAUGAREA CHEILOR STRAINE
-- ----------------------------------------------------
use owo;


-- PROCEDURA PENTRU ADAUGAREA CHEILOR STRAINE
delimiter //
create procedure add_fk(fromTbl varchar(255), fromCol varchar(255), toTbl varchar(255), toCol varchar(255))
begin
        set @q = concat("alter table ", fromTbl, " add constraint `fk-", fromTbl, "-", toTbl, "-", toCol, "` foreign key (", fromCol,") references ", toTbl, "(", toCol, ") on delete cascade");
    prepare stmt from @q;
    execute stmt;
    deallocate prepare stmt;
end//


call add_fk("date_logare", "id_utilizator", "utilizator", "id_utilizator");
```

```
call add_fk("utilizator", "id_tip_utilizator", "tip_utilizator", "id_tip_utilizator");

call add_fk("profesori", "id_profesor", "utilizator", "id_utilizator");

call add_fk("conditie", "id_predare", "predare", "id_predare");
call add_fk("conditie", "id_activitate", "activitate", "id_activitate");

call add_fk("calendar", "id_conditie", "conditie", "id_conditie");

call add_fk("predare", "id_profesor", "profesori", "id_profesor");
call add_fk("predare", "id_materie", "materie", "id_materie");

call add_fk("catalog", "id_student", "student", "id_student");
call add_fk("catalog", "id_conditie", "conditie", "id_conditie");

call add_fk("inscriere_materie", "id_predare", "predare", "id_predare");
call add_fk("inscriere_materie", "id_student", "student", "id_student");

call add_fk("student", "id_student", "utilizator", "id_utilizator");

call add_fk("inscriere_activitate", "id_programare", "calendar", "id_programare");
call add_fk("inscriere_activitate", "id_student", "student", "id_student");

call add_fk("inbox", "id_student", "student", "id_student");

call add_fk("grupuri_de_studiu", "id_materie", "materie", "id_materie");

call add_fk("membrii_grup", "id_grup_studiu", "grupuri_de_studiu", "id_grup_studiu");
```

```
call add_fk("membrii_grup", "id_student", "student", "id_student");


call add_fk("eveniment", "id_grup_studiu", "grupuri_de_studiu", "id_grup_studiu");

call add_fk("eveniment", "id_profesor", "profesori", "id_profesor");


call add_fk("participanti_event", "id_event", "eveniment", "id_event");

call add_fk("participanti_event", "id_student", "student", "id_student");


call add_fk("mesaje", "id_grup_studiu", "grupuri_de_studiu", "id_grup_studiu");

call add_fk("mesaje", "id_student", "student", "id_student");
```

3. POPULAREA TABELELOR

```
-- ----------------------------------------------------
-- POPULAREA TABELELOR
-- ----------------------------------------------------


-- POPULAM TABELUL CU TIPURILE DE UTILIZATOR
insert into tip_utilizator (nume, grad) values
("Super Administrator", 1),
("Administrator", 2),
("Profesor", 3),
("Student", 4);


-- POPULAM TABELUL CU UTILIZATORI
insert into utilizator values
(0, 1, "2870316176634", "Andrei", "Ionescu", "BD. TRAIAN nr. 22 ap. 24, MARAMUREŞ,
430262", "0785557547", "walex_tu@maliberty.com", "RO76PORL4321834627533961", 1),
```

(0, 2, "2430303100067", "Andreea", "Metescu", "Strada Dudului 15, Campineanca", "0735557966", "2fuad102040f@bmpk.org", "RO08PORL4543588316116762", 2),

(0, 2, "1890208050053", "Mihai", "Vasile", "STR. PAUL CHINEZU nr. 10, MUREŞ, 540326", "0705559532", "kanaaslngn15o@cetssc.org", "RO92RZBR7263314974655334", 3),

(0, 3, "1461216130011", "Gigel", "Florian", "STR. PRUTULUI nr. 32A, Buzau", "0705558074", "byasminrob@ncpine.com", "RO86PORL2267356132497221", 4),

(0, 3, "1311214410034", "Frone", "Ion", "SAT PĂUŞEŞTI-OTĂSĂU, COM. PĂUŞEŞTI", "0745557073", "gfredbss5@jembott.com", "RO68RZBR7757152429364654", 1),

(0, 3, "2921201260044", "Katarina ", "Partridge", "STR. GHICA ION bl. 5 et parter ap. 1, DÂMBOVIŢA, 130121", "0711555580", "when@air.stream", "RO58PORL5977685253821669", 1),

(0, 3, "6000627460031", "Sahib", "Chase", "Bulevardul Iuliu Maniu 69, Bucuresti 6", "0705555292", "9zied.nouajaaw@cetssc.org", "RO30PORL8377888529462391", 1),

(0, 3, "2690928030054", "Ianis ", "Leech", "Strada Siriului 28-32, Bucuresti", "0705556942", "tali.afrekano3@paratudo.store", "RO59PORL8728846652346687", 1),

(0, 4, "2591120280096", "Guto", "Parry", "STR. 9 MAI nr. 42 bl. B1, BACĂU, 600022", "0705557988", "mces@royfield.com", "RO23PORL6183895213689539", 1),

(0, 4, "2260130240081", "Katy", "Parry", "Strada Stefan Augustin Doinas 32, Arad", "0705557953", "prozisk@18dealnshop.com", "RO75PORL1635116739626617", 1),

(0, 4, "2530819330099", "Fiza", "Dodd", "CAL. LUI TRAIAN nr. 331, VÂLCEA", "0741346407", "okaser_10113@triumphlotto.com", "RO03PORL1387369581661779", 1),

(0, 4, "2580930240017", "Robson", "Pruitt", "STR. ŞELARILOR nr. 2, SIBIU", "0705555039", "ahdkherm@206270.com", "RO63PORL5985863535417379", 1),

(0, 4, "2660429070071", "Romana", "Justice", "Strada Lamaitei 31/5, Tg. Mures 540660", "0711555971", "nantonioferreira@darwinav.com", "RO48RZBR1259698714545315", 1);

-- POPULAM TABELUL CU MATERII

insert into materie values

(0, "PC", "Programarea calculatoarelor", 1),

(0, "SDA", "Structuri de date si algoritmi", 1),

(0, "ET", "Electrotehnica", 1),

(0, "Fizica", "Fizica", 1),

(0,"MSI", "Matematici speciale in inginerie", 2),

(0, "POO", "Programare orientata pe obiecte", 2);

-- POPULAM TABELUL CU PROFESORI

insert into profesori values

(4, 24, 72,"Electrotehnica"),

(5, 48, 96, "Matematica"),

(6, 24, 96, "Fizica si chimie"),

(7, 48, 72, "Calculatoare"),

(8, 48, 72, "Calculatoare");

-- POPULAM TABELUL CU STUDENTI

insert into student values

(9, 1, 48),

(10, 1, 48),

(11, 2, 36),

(12, 2, 36),

(13, 2, 48);

-- ASIGNAREA PROFESORILOR LA CURSURI

call owo.admin_assign_prof_course('4', '3');

call owo.admin_assign_prof_course('5', '5');

call owo.admin_assign_prof_course('6', '4');

call owo.admin_assign_prof_course('7', '1');

call owo.admin_assign_prof_course('8', '1');

call owo.admin_assign_prof_course('8', '2');

-- POPULAM TABELUL CU ACTIVITATI

insert into activitate values

(0, "Curs", "Examen", 7),

(0, "Seminar", "Test seminar", 7),

(0, "Laborator", "Colocviu", 7);

-- POPULAM TABELUL CU CONDITIILE IN CARE PROFESORII ISI DESFASOARA MATERIILE

insert into conditie values

(0, 1, 1, 50),

(0, 1, 2, 20),

(0, 1, 3, 30),

(0, 2, 1, 50),

(0, 2, 2, 0),

(0, 2, 3, 50),

(0, 3, 1, 70),

(0, 3, 2, 0),

(0, 3, 3, 30),

(0, 4, 1, 60),

(0, 4, 2, 10),

(0, 4, 3, 30),

(0, 5, 1, 60),

(0, 5, 2, 10),

(0, 5, 3, 30),

(0, 6, 1, 60),

(0, 6, 2, 0),

(0, 6, 3, 40);

-- POPULAM TABELUL DE INSCRIERE A STUDENTULUI LA O MATERIE

insert into inscriere_materie values

(0, 9, 1),

(0, 9, 2),

(0, 10, 1),

(0, 10, 2),

(0, 10, 3),

(0, 10, 4),

(0, 11, 5),

(0, 12, 6),

(0, 13, 5),

(0, 13, 6);

-- POPULAM CATALOGUL

insert into catalog values

(0, 9, 1, 7),

(0, 9, 2, 8),

(0, 9, 3, 9),

(0, 13, 13, 10),

(0, 13, 14, 9),

(0, 13, 15, 8),

(0, 13, 16, 7),

(0, 13, 17, 6),

(0, 13, 18, 5);

-- POPULAM CALENDARUL

insert into calendar values

(0, 1, '2021-08-01 10:00:00', '2022-01-20 12:00:00', 0, 120),

(0, 2, '2021-08-02 12:00:00', '2022-01-22 14:00:00', 0, 40),

(0, 2, '2021-08-02 14:00:00', '2022-01-23 16:00:00', 0, 40),

(0, 2, '2021-08-02 16:00:00', '2022-01-24 18:00:00', 0, 40),

```
(0, 2, '2021-08-03 18:00:00', '2022-01-22 20:00:00', 0, 20),

(0, 3, '2021-08-03 12:00:00', '2022-01-22 14:00:00', 0, 20),

(0, 3, '2021-08-03 08:00:00', '2022-01-22 10:00:00', 0, 20),

(0, 3, '2021-08-03 10:00:00', '2022-01-22 12:00:00', 0, 20),

(0, 3, '2021-08-03 20:00:00', '2022-01-22 22:00:00', 0, 20),

(0, 3, '2021-08-03 14:00:00', '2022-01-22 16:00:00', 0, 20),

(0, 3, '2021-08-03 16:00:00', '2022-01-22 18:00:00', 0, 20),

(0, 4, '2021-09-05 08:00:00', '2022-03-25 10:00:00', 0, 140),

(0, 5, '2021-09-05 10:00:00', '2022-03-25 12:00:00', 0, 60),

(0, 6, '2021-09-08 12:00:00', '2022-03-08 14:00:00', 0, 16),

(0, 7, '2021-08-03 12:00:00', '2022-01-22 14:00:00', 0, 150),

(0, 8, '2021-09-05 16:00:00', '2022-03-25 18:00:00', 0, 50),

(0, 9, '2021-09-30 18:00:00', '2022-03-30 20:00:00', 0, 20),

(0, 1, '2022-01-27 20:00:00', '2022-01-27 22:00:00', 1, 120),

(0, 2, '2022-01-29 08:00:00', '2022-01-29 10:00:00', 1, 120),

(0, 3, '2021-01-29 10:00:00', '2022-01-29 12:00:00', 1, 120);


insert into calendar values

(0, 13, '2021-01-03 10:00:00', '2021-01-03 11:00:00', 1, 7, 120);


-- POPULAM TABELUL DE INSCRIERE A STUDENTULUI LA O ACTIVITATE

insert into inscriere_activitate values

(0, 1, 10),

(0, 2, 10),

(0, 3, 10),

(0, 15, 10),

(0, 16, 10),

(0, 17, 10),
```

(0, 21, 9),

(0, 7, 9);

-- POPULAM TABELUL CU GRUPURILE DE STUDIU

insert into grupuri_de_studiu values

(0, 1, "Programarea Calculatoarelor - Seria 1"),

(0, 1, "Programarea Calculatoarelor - Seria 2"),

(0, 1, "Programarea Calculatoarelor - Recontractari"),

(0, 2, "SDA - Forum intrebari"),

(0, 2, "SDA - Discutii examen"),

(0, 2, "SDA - Seria 1 si 2"),

(0, 3, "ET - Seria 1 si 2"),

(0, 3, "ET - Laboratoare"),

(0, 4, "Fizica - Seria 1 si 2"),

(0, 5, "MSI - Seminarii"),

(0, 5, "MSI - Seria 1"),

(0, 6, "POO - Seria 1 si 2"),

(0, 6, "POO - Discutii examen"),

(0, 6, "POO - In spate la grajdar");

-- POPULAM TABELUL CU MEMBRII UNUI GRUP DE STUDIU

insert into membrii_grup values

(0, 1, 9),

(0, 4, 9),

(0, 5, 9),

(0, 8, 9),

(0, 9, 9),

(0, 2, 10),

(0, 3, 10),

(0, 4, 10),

(0, 10, 11),

(0, 12, 11),

(0, 14, 11),

(0, 11, 12),

(0, 12, 12),

(0, 14, 12),

(0, 11, 13),

(0, 12, 13),

(0, 14, 13);

-- POPULAM TABELUL CU MESAJE

insert into mesaje values

(0, "Hello World!", 1, 9),

(0, "Strive for greatness.", 4, 9),

(0, "May your choices reflect your hopes, not your fears.", 5, 9),

(0, "It hurt because it mattered.", 9, 9),

(0, "What we think, we become.", 2, 10),

(0, "No pressure, no diamonds.", 14, 11),

(0, "Damn right homie.", 14, 12),

(0, "I like turtles", 14, 13),

(0, "Boldness be my friend.", 12, 12),

(0, "Be so good they can't ignore you.", 11, 13),

(0, "Admine da-mi grad.", 11, 12);

-- POPULAM TABELUL IN CARE RETINEM PROFESORII SI MATERIILE PE CARE LE PREDAU

insert into predare values

(0, 7, 6);

-- POPULAM TABELUL CU EVENIMENTE DIN CADRUL UNUI GRUP DE STUDIU

insert into eveniment values

(0, 1, "Rezolvari probleme curs", "Vom rezolva problemele propuse la curs",7,'2021-03-17 14:00:00', "04:00:00", 1, "48:00:00"),

(0, 2, "Rezolvari probleme curs", "Vom rezolva problemele propuse la curs", null ,'2021-03-17 14:00:00', "04:00:00", 2, "48:00:00"),

(0, 4, "Raspundem la intrebari", "Vom raspunde la cele mai puse intrebari de pe forum",7,'2021-04-20 15:00:00', "06:00:00", 2, "12:00:00"),

(0, 9, "Consultatii examen", "Doamna profesoara va raspunde intrebarilor ce privesc partea de materie studiata", 6 ,'2021-02-12 10:00:00', "03:00:00", 2, "12:00:00"),

(0, 14, "Trade de iteme", "Ne strangem in spatem la grajdar si facem

 trade", null, '2021-02-12 10:00:00', "12:00:00", 2, "24:00:00");

 -- POPULAM TABELUL CU PARTICIPANTII DE LA UN EVENIMENT DIN CADRUL UNUI GRUP DE STUDIU

 insert into participanti_event values

(0, 1, 9),

(0, 4, 9),

(0, 3, 10),

(0, 5, 11),

(0, 5, 12);

-- POPULAM INBOX-UL CU MESAJE

insert into inbox values

(0, 9, "Eveniment anulat", "Evenimentul 'Rezolvari variante propuse' din grupul de studiu 'ET - Laboratoare' a fost anulat!"),

(0, 9, "Eveniment anulat", "Evenimentul 'Consultatii examen' din grupul de studiu 'SDA - Seria 1 si 2' a fost anulat!"),

(0, 10, "Eveniment anulat", "Evenimentul 'Spam la admin pana ne da grad' din grupul 'POO - In spate la grajdar' a fost anulat!"),

(0, 11, "Eveniment anulat", "Evenimentul 'Spam la admin pana ne da grad' din grupul 'POO - In spate la grajdar' a fost anulat!");

-- POPULAM CU DATE DE LOGARE

insert into date_logare values

(1, "test", "test"),

(2, "admin", "admin"),

(4, "prof1", "prof1"),

(8, "prof", "prof"),

(9, "student", "student"),

(11, "student1", "student1"),

(12, "student2", "student2");