

Invatamant universitar

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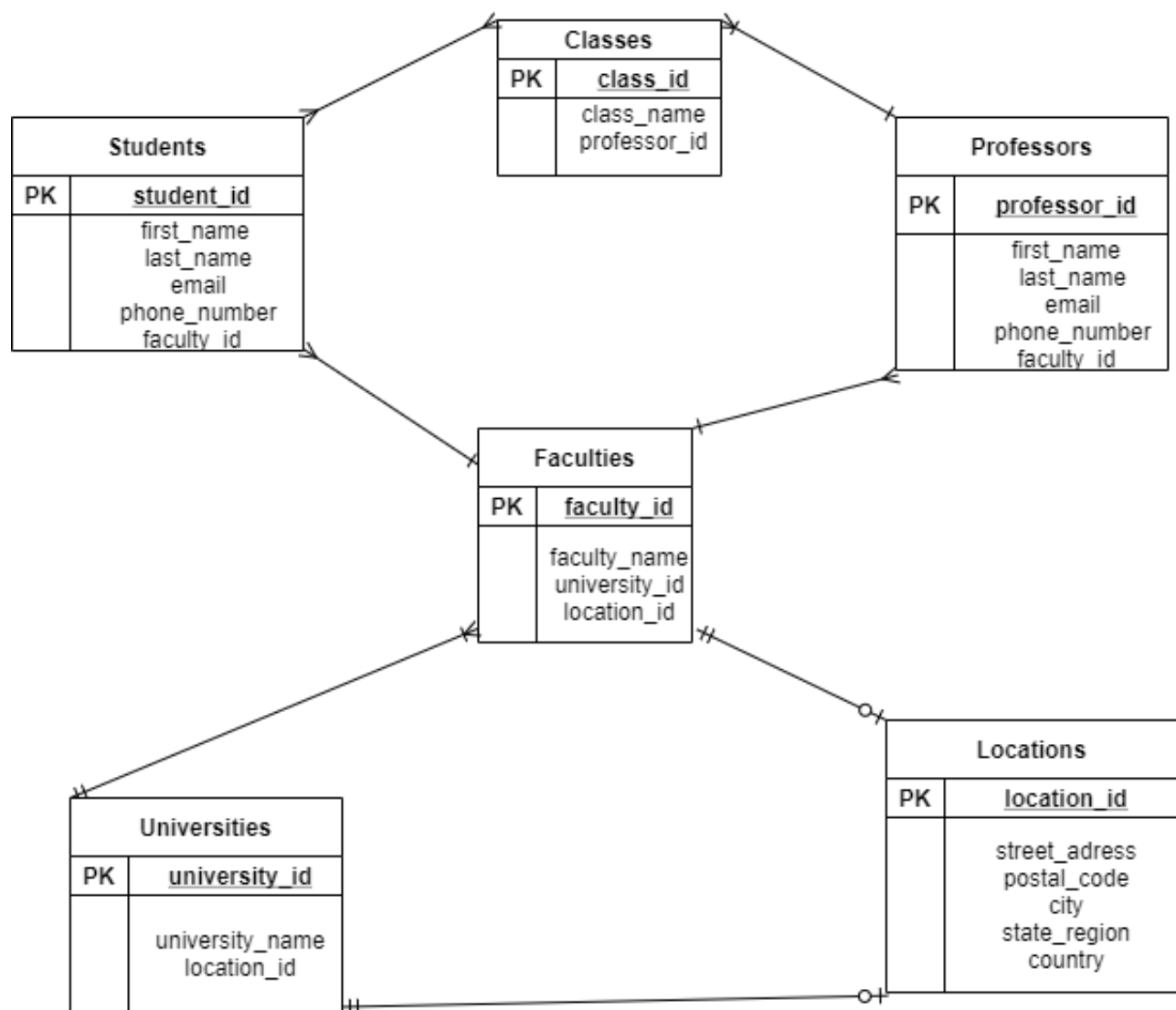
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Proiect SGBD – Invatamant Universitar – Cerinte

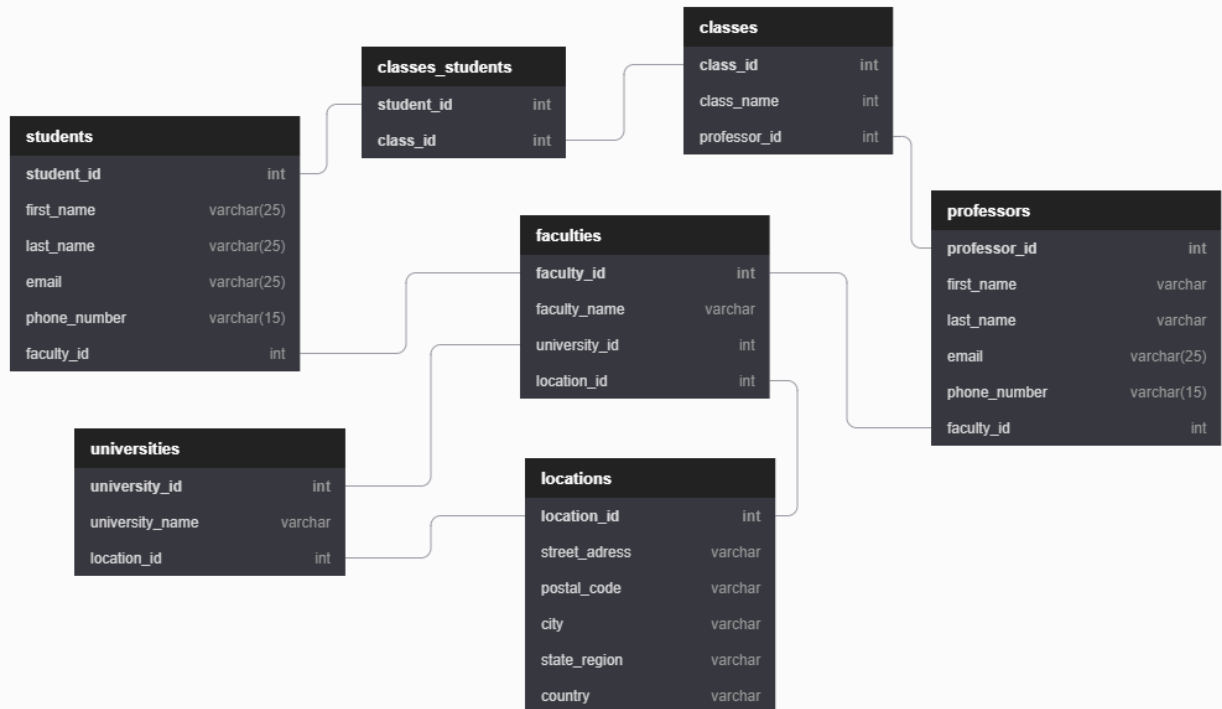
1. Prezentări pe scurt baza de date (utilitatea ei)

Baza de date a unor universitati ce poate fi utilizata pentru a stoca date despre facultatile componente, profesori, studenti si cursuri.

2. Realizați diagrama entitate-relație (ERD).



3. Pornind de la diagrama entitate-relație realizați diagrama conceptuală a modelului propus, integrând toate atributele necesare.



4. Implementați în Oracle diagrama conceptuală realizată: definiți toate tabelele, implementând toate constrângerile de integritate necesare (chei primare, cheile externe etc).

```

CREATE TABLE locations (
  location_id NUMBER(10) CONSTRAINT location_pk PRIMARY KEY,
  street_adress varchar2(128),
  postal_code varchar2(20),
  city varchar2(60),
  state_region varchar2(60),
  country varchar2(60)
);
  
```

```

CREATE TABLE universities (
  university_id NUMBER(10) CONSTRAINT university_pk PRIMARY KEY,
  university_name VARCHAR2(60) CONSTRAINT university_name_nn NOT NULL,
  location_id NUMBER(10) CONSTRAINT universtiy_location_fk REFERENCES locations(location_id) ON DELETE CASCADE
);
  
```

```
CREATE TABLE faculties (
  faculty_id NUMBER(10) CONSTRAINT faculty_pk PRIMARY KEY,
  faculty_name VARCHAR2(60) CONSTRAINT faculty_name_nn NOT NULL,
  university_id NUMBER(10) CONSTRAINT faculty_university_fk REFERENCES universities(university_id) ON DELETE CASCADE,
  location_id NUMBER(10) CONSTRAINT faculty_location_fk REFERENCES locations(location_id) ON DELETE CASCADE
);
```

```
CREATE TABLE students (
  student_id NUMBER(10) constraint student_pk PRIMARY KEY,
  first_name VARCHAR2(25) CONSTRAINT student_first_name_nn NOT NULL,
  last_name VARCHAR2(25) CONSTRAINT student_last_name_nn NOT NULL,
  email VARCHAR2(40),
  phone_number VARCHAR(15),
  faculty_id NUMBER(10) CONSTRAINT student_faculty_fk REFERENCES faculties(faculty_id) ON DELETE CASCADE
);
```

```
CREATE TABLE professors (
  professor_id NUMBER(10) CONSTRAINT professor_pk PRIMARY KEY,
  first_name VARCHAR2(25) CONSTRAINT professor_first_name_nn NOT NULL,
  last_name VARCHAR2(25) CONSTRAINT professor_last_name_nn NOT NULL,
  email VARCHAR2(60),
  phone_number VARCHAR2(15),
  faculty_id NUMBER(10) CONSTRAINT professor_faculty_fk REFERENCES faculties(faculty_id) ON DELETE CASCADE
);
```

```
CREATE TABLE classes (
  class_id NUMBER(10) CONSTRAINT class_pk PRIMARY KEY,
  class_name VARCHAR2(70) CONSTRAINT class_name_nn NOT NULL,
  professor_id NUMBER(10) CONSTRAINT class_professor_fk REFERENCES professors(professor_id) ON DELETE CASCADE
);
```

```
CREATE TABLE classes_students (
  student_id NUMBER(10) CONSTRAINT class_student_student_fk REFERENCES students(student_id) ON DELETE CASCADE,
  class_id NUMBER(10) CONSTRAINT class_student_class_fk REFERENCES classes(class_id) ON DELETE CASCADE,
  CONSTRAINT class_student_pk PRIMARY KEY(class_id, student_id)
);
```

The screenshot shows a SQL script execution window with a dark background. The script contains the following SQL statements:

```

60  email VARCHAR2(60),
61  phone_number VARCHAR2(15),
62  faculty_id NUMBER(10) CONSTRAINT professor_faculty_fk REFERENCES faculties(faculty_id) ON DELETE CASCADE
63  );
64
65  CREATE TABLE classes (
66    class_id NUMBER(10) CONSTRAINT class_pk PRIMARY KEY,
67    class_name VARCHAR2(70) CONSTRAINT class_name_nn NOT NULL,
68    professor_id NUMBER(10) CONSTRAINT class_professor_fk REFERENCES professors(professor_id) ON DELETE CASCADE
69  );
70
71  CREATE TABLE classes_students (
72    student_id NUMBER(10) CONSTRAINT class_student_student_fk REFERENCES students(student_id) ON DELETE CASCADE,
73    class_id NUMBER(10) CONSTRAINT class_student_class_fk REFERENCES classes(class_id) ON DELETE CASCADE,
74    CONSTRAINT class_student_pk PRIMARY KEY(class_id, student_id)
75  );
76
77

```

Below the script, the "Script Output" window shows the following messages:

```

Task completed in 1.072 seconds
Table CLASSES_STUDENTS dropped.
Table LOCATIONS created.
Table UNIVERSITIES created.
Table FACULTIES created.
Table STUDENTS created.
Table PROFESSORS created.
Table CLASSES created.
Table CLASSES_STUDENTS created.

```

5. Adăugați informații coerente în tabelele create (minim 3-5 înregistrări pentru fiecare entitate independentă; minim 10 înregistrări pentru tabela asociativă).

```
-- create sequences
CREATE SEQUENCE seq_class MINVALUE 1 START WITH 1 INCREMENT BY 1 CACHE 10;
CREATE SEQUENCE seq_faculty MINVALUE 1 START WITH 1 INCREMENT BY 1 CACHE 10;
CREATE SEQUENCE seq_location MINVALUE 1 START WITH 1 INCREMENT BY 1 CACHE 10;
CREATE SEQUENCE seq_professor MINVALUE 1 START WITH 1 INCREMENT BY 1 CACHE 10;
CREATE SEQUENCE seq_student MINVALUE 1 START WITH 1 INCREMENT BY 1 CACHE 10;
CREATE SEQUENCE seq_university MINVALUE 1 START WITH 1 INCREMENT BY 1 CACHE 10;

--locations
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Strada Mihail Kogalniceanu 1','400084','Cluj-Napoca','Cluj','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Bulevardul Carol 11','700506','Iasi','Iasi','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Splaiul Independentei 313','060042','Bucuresti','Bucuresti','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Bulevardul M. Kogalniceanu 36-46','050107','Bucuresti','Bucuresti','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Plata Romana 6, Sector 1','010374','Bucuresti','Bucuresti','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Str. Teodor Mihali, Nr. 58-60','400591','Cluj-Napoca','Cluj','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Str. Mihail Kogălniceanu, nr. 1','400084','Cluj-Napoca','Cluj','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Str. Toma Cozma, Nr. 3','700554','Iasi','Iasi','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'B-dul Carol I, Nr. 11','700506','Iasi','Iasi','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Strada Gheorghe Polizu, nr 1-7, Corp F','011061','Bucuresti','Bucuresti','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Splaiul Independentei, nr. 313','060042','Bucuresti','Bucuresti','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Str. Academiei nr.14','010014','Bucuresti','Bucuresti','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Bd. Mihail Kogălniceanu nr. 36-46','050107','Bucuresti','Bucuresti','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Str. Caderera Bastiliei nr. 2-10','010374','Bucuresti','Bucuresti','Romania');
INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES (seq_location.nextval,'Bd. Dacia nr. 41','010404','Bucuresti','Bucuresti','Romania');

--universities
INSERT INTO universities (university_id,university_name,location_id) VALUES (seq_university.nextval,'Universitatea Babes-Bolyai',1);
INSERT INTO universities (university_id,university_name,location_id) VALUES (seq_university.nextval,'Universitatea Alexandru Ioan Cuza din Iasi',2);
INSERT INTO universities (university_id,university_name,location_id) VALUES (seq_university.nextval,'Universitatea Politehnica din Bucuresti',3);
INSERT INTO universities (university_id,university_name,location_id) VALUES (seq_university.nextval,'Universitatea din Bucuresti',4);
INSERT INTO universities (university_id,university_name,location_id) VALUES (seq_university.nextval,'Academia de Studii Economice din Bucuresti',5);

--faculties
INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (seq_faculty.nextval,'Facultatea de Stiinte Economice si Gestiunea Afacerilor',1,6);
INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (seq_faculty.nextval,'Facultatea de Matematica si Informatica',1,7);
INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (seq_faculty.nextval,'Facultatea de Psihologie si stiinte ale Educatiei',2,8);
INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (seq_faculty.nextval,'Facultatea de Litere',2,9);
INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (seq_faculty.nextval,'Facultatea de Inginerie Medicala',3,10);
INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (seq_faculty.nextval,'Facultatea de Automatica si Calculatoare',3,11);
INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (seq_faculty.nextval,'Facultatea de Matematica si Informatica',4,12);
INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (seq_faculty.nextval,'Facultatea de Drept',4,13);
INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (seq_faculty.nextval,'Facultatea de Contabilitate si Informatica de Gestiune',5,13);
INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (seq_faculty.nextval,'Facultatea de Marketing',5,14);

--students
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Costi','Comeaga','costi.comeaga@s.lit.uaic.ro','0719211398',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Denis','Dita','denis.dita@s.econ.ubb.ro','0710268296',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'George','Tudor','george.tudor@s.mk.ase.ro','0717787847',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Horia','Goga','horia.goga@s.acs.upb.ro','0716488499',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Danus','Gabor','danus.gabor@s.lit.uaic.ro','0713517407',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Adrian','Olinescu','adrian.olinescu@s.psih.uaic.ro','0714833670',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Cristian','Kazaku','cristian.kazaku@s.lit.uaic.ro','0717759703',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'George','Petrescu','george.petrescu@s.econ.ubb.ro','0711158596',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Felix','Romanescu','felix.romanescu@s.fim.upb.ro','0713564223',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Florentin','Stancu','florentin.stancu@s.psih.uaic.ro','0711500541',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Sonia','Rudeanu','sonia.rudeanu@s.acs.upb.ro','0714335112',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Codruta','Marcovici','codruta.marcovici@s.fim.upb.ro','0711691911',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Adrianna','Boroi','adrianna.boroi@s.mk.ase.ro','0710343566',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Eliza','Rotaru','eliza.rotaru@s.lit.uaic.ro','0710299114',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Margareta','Zamfir','margareta.zamfir@s.psih.uaic.ro','0716013956',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Aurelia','Cojoc','aurelia.cojoc@s.acs.upb.ro','0714585971',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Marta','Filipescu','marta.filipescu@s.lit.uaic.ro','0716692745',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Adela','Ciora','adela.ciora@s.acs.upb.ro','0714131849',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Mara','Raducioiu','mara.raducioiu@s.drept.unibuc.ro','0713601608',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Michaela','Artenie','michaela.artenie@s.acs.upb.ro','0712976788',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Manuel','Vasilescu','manuel.vasilescu@s.fim.upb.ro','0718340414',9);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Simu','Costache','simu.costache@s.drept.unibuc.ro','0719189255',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dragos','Vulpes','dragos.vulpes@s.acs.upb.ro','0718474537',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Flaviu','Lupescu','flaviu.lupescu@s.cig.ase.ro','0718340414',9);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Gheorghe','Groza','gheorghe.groza@s.mk.ase.ro','0712528781',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Codrin','Filipescu','codrin.filipescu@s.fim.upb.ro','0712173416',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ferka','Dalca','ferka.dalca@s.acs.upb.ro','0711115731',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Carol','Paler','carol.paler@s.drept.unibuc.ro','0716057633',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Florentin','Ojarcu','florentin.ojarcu@s.econ.ubb.ro','0719178637',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Iulian','Theodorescu','iulian.theodorescu@s.fim.upb.ro','0719252311',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Denisa','Cosovei','denisa.cosovei@s.psih.uaic.ro','0710303106',3);
```

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Anca','Arcos','anca.arcos@s.acs.upb.ro','0716254501',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Adela','Nemes','adela.nemes@s.fim.upb.ro','0710015058',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Rodika','Corbeanu','rodika.corbeanu@s.drept.unibuc.ro','0712683469',8);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Constansa','Blaga','constansa.blaga@s.psih.uaic.ro','0712226502',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ilena','Grigorescu','ilena.grigorescu@s.econ.ubb.ro','0719384737',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Mihaela','Rosetti','mihaela.rosetti@s.econ.ubb.ro','0715548191',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Irina','Negoitescu','irina.negoitescu@s.fmi.unibuc.ro','0718228494',7);

(seq_student.nextval,'Codruta','Donceanu','codruta.donceanu@s.cig.ase.ro','0718773146',9);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Yessenia','Voicu','yessenia.voicu@s.fmi.ubb.ro','0710751043',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Mazonn','Ardelean','mazonn.ardelean@s.psih.uaic.ro','0717392397',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Teo','Kazaku','teo.kazaku@s.mk.ase.ro','0714396639',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Petru','Nita','petru.nita@s.acs.upb.ro','0717869757',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dracul','Troester','dracul.troester@s.fim.upb.ro','0719906008',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ciodaru','Mihaili','ciodaru.mihaili@s.fmi.ubb.ro','0716565275',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Marius','Costiniu','marius.costiniu@s.cig.ase.ro','0712632419',9);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Marius','Minea','marius.minea@s.cig.ase.ro','0714154680',9);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Glad','Apostu','glad.apostu@s.psih.uaic.ro','0712588308',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Anton','Dumitru','anton.dumitru@s.fim.upb.ro','0717978252',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Rasvan','Moscovici','rasvan.moscovici@s.fmi.ubb.ro','0719693579',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Stefania','Mihai','stefania.mihai@s.drept.unibuc.ro','0711483674',8);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Carmen','Luca','carmen.luca@s.mk.ase.ro','0719548793',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Izabela','Tatarescu','izabela.tatarescu@s.econ.ubb.ro','0710809250',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Teofila','Tilea','teofila.tilea@s.lit.uaic.ro','0714244385',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ana-maria','Tavitian','ana-maria.tavitian@s.econ.ubb.ro','0716659808',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Alexandreina','Iacobescu','alexandreina.iacobescu@s.drept.unibuc.ro','0714128801',8);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ilincea','Lupul','ilincea.lupul@s.mk.ase.ro','0712649946',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Florenta','Boroi','florenta.boroi@s.lit.uaic.ro','0717631135',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Iuliana','Raducanu','iuliana.raducanu@s.acs.upb.ro','0712467976',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ilincea','Dragan','ilincea.dragan@s.fim.upb.ro','0714667498',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Paul','Costache','paul.costache@s.psih.uaic.ro','0718748920',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ciodaru','Chechiches','ciodaru.chechiches@s.lit.uaic.ro','0719885127',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Marius','Gilca','marius.gilca@s.econ.ubb.ro','0713706788',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Claudiu','Enescu','claudiu.enescu@s.psih.uaic.ro','0713530108',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Mihai','Bogoescu','mihai.bogoescu@s.acs.upb.ro','0712664904',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Boian','Lascar','boian.lascar@s.fmi.unibuc.ro','0711042203',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Arsenie','Apostol','arsenie.apostol@s.mk.ase.ro','0719365187',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Cristofor','Muresanu','cristofor.muresanu@s.econ.ubb.ro','0711100768',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Costel','Mandruleanu','costel.mandruleanu@s.psih.uaic.ro','0712429886',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Filip','Cristescu','filip.cristescu@s.lit.uaic.ro','0712971141',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Alina','Popescu','alina.popescu@s.fmi.unibuc.ro','0716920722',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Uta','Ciora','uta.ciora@s.fmi.ubb.ro','0716819562',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Virginia','Alexandrescu','virginia.alexandrescu@s.econ.ubb.ro','0714273722',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Constansa','Marandici','constansa.marandici@s.psih.uaic.ro','0712420337',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Magdalena','Musat','magdalena.musat@s.acs.upb.ro','0711247659',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Catina','Manole','catina.manole@s.psih.uaic.ro','0712319924',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Luiza','Giurgiu','luiza.giurgiu@s.mk.ase.ro','0714275247',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Craita','Ionescu','craita.ionescu@s.acs.upb.ro','0719577514',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Zina','PoA@naru','zina.poA@naru@s.fim.upb.ro','0719703496',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Alexandreina','Cosovei','alexandreina.cosovei@s.fmi.ubb.ro','0715799189',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Boian','Pirvu','boian.pirvu@s.acs.upb.ro','0712674687',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dracul','Ojarcaru','dracul.ojarcaru@s.mk.ase.ro','0711811241',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Calin','Ojarcaru','calin.ojarcaru@s.fmi.unibuc.ro','0718783893',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dionisie','Vladimiri','dionisie.vladimiri@s.mk.ase.ro','0713791714',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ciprian','Pop','ciprian.pop@s.psih.uaic.ro','0718579156',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Iorghu','Munteanu','iorghu.munteanu@s.drept.unibuc.ro','0713181965',8);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Cristofor','Oprea','cristofor.oprea@s.fmi.unibuc.ro','0715244810',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Theodor','Ghezzo','theodor.ghezzo@s.fmi.ubb.ro','0717630145',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Marius','Macek','marius.macek@s.cig.ase.ro','0712593546',9);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Stan','Barnutiu','stan.barnutiu@s.psih.uaic.ro','0712169904',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Regina','Pacurararu','regina.pacurararu@s.mk.ase.ro','0717060720',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Sandra','Gilca','sandra.gilca@s.fmi.ubb.ro','0713962083',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ilincea','Ceausescu','ilincea.ceausescu@s.psih.uaic.ro','0711877327',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Miruna','PoA@naru','miruna.poA@naru@s.lit.uaic.ro','0710095017',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Melita','Ciumak','melita.ciumak@s.fim.upb.ro','07112034133',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Marinela','Ilica','marinela.ilica@s.acs.upb.ro','0716236613',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Rodika','Goian','rodika.goian@s.drept.unibuc.ro','0716682272',8);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Daniela','Leonte','daniela.leonte@s.acs.upb.ro','0719081342',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Diona','Troester','diona.troester@s.mk.ase.ro','0711372409',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Codruta','PĂ®rvolescu','codruta.pa®rvolescu@s.econ.ubb.ro','0716852050',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Nicolas','Chitu','nicolas.chitu@s.acs.upb.ro','0711142665',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Sergiu','Raceanu','sergiu.raceanu@s.psih.uaic.ro','0718609908',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Valeriu','Skutnik','valeriu.skutnik@s.fmi.unibuc.ro','0715543922',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Simu','Donceanu','simu.donceanu@s.fmi.ubb.ro','0712253999',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Iulio','Mechitbayeva','iulio.mechitbayeva@s.lit.uaic.ro','0710794979',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Glad','Constantin','glad.constantin@s.fim.upb.ro','0715806448',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Iosif','Dobre','iosif.dobre@s.fmi.ubb.ro','0710928488',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Sebastian','Stefan','sebastian.stefan@s.drept.unibuc.ro','0713425054',8);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Niculaie','Breban','niculaie.breban@s.psih.uaic.ro','0718868933',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Simion','Marinescu','simion.marinescu@s.fim.upb.ro','0716247216',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Mihaela','Popescu','mihaela.popescu@s.econ.ubb.ro','0711679838',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Florenta','Kazaku','florenta.kazaku@s.fmi.unibuc.ro','0717692589',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Petronela','Andreescu','petronela.andreescu@s.psih.uaic.ro','0716206849',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Madalina','Dimir','madalina.dimir@s.lit.uaic.ro','0710953543',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Iolanda','Moculescu','iolanda.moculescu@s.mk.ase.ro','0716512159',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Eugenia','Osmochescu','eugenia.osmochescu@s.lit.uaic.ro','0713808551',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Lucia','Alexandrescu','lucia.alexandrescu@s.fim.upb.ro','0718121031',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Mariana','Vladimirescu','mariana.vladimirescu@s.acs.upb.ro','0714346585',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Lizuca','Barnutiu','lizuca.barnutiu@s.psih.uaic.ro','0713587086',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Sorinna','Milosovici','sorinna.milosovici@s.econ.ubb.ro','0713159368',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Jean','Filotti','jean.filotti@s.psih.uaic.ro','0714672526',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Alin','Baicu','alin.baicu@s.acs.upb.ro','0712161808',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Codrin','Ionita','codrin.ionita@s.drept.unibuc.ro','0710440611',8);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Costica','Barbulescu','costica.barbulescu@s.lit.uaic.ro','0716029181',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Eduard','Pekurar','eduard.pekurar@s.drept.unibuc.ro','0711927786',8);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Rica','Olinescu','rica.olinescu@s.fim.upb.ro','0716603342',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Flavius','Gabor','flavius.gabor@s.fmi.ubb.ro','0711203138',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Costica','Ciumak','costica.ciumak@s.drept.unibuc.ro','0713873246',8);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Simu','Apostu','simu.apostu@s.psih.uaic.ro','0718603611',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dumitru','Tudor','dumitru.tudor@s.psih.uaic.ro','0710477487',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Amalia','Bumbescu','amalia.bumbescu@s.lit.uaic.ro','0711091000',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Vanda','Luca','vanda.luca@s.lit.uaic.ro','07116658283',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ruxandra','Gilca','ruxandra.gilca@s.fmi.unibuc.ro','0715536999',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Anemona','Cornea','anemona.cornea@s.fmi.unibuc.ro','0710639697',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Narcisa','Puiu','narcisa.puiu@s.cig.ase.ro','0715743927',9);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Elena','Stefanescu','elena.stefanescu@s.lit.uaic.ro','0713304972',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Nica','Catalina','nica@catalina.nica@s.lit.uaic.ro','0710858723',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ilinca','Iordache','ilinc.a.iordache@s.cig.ase.ro','0717298130',9);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ileana','Anghelescu','ileana.anghelescu@s.fmi.ubb.ro','0710683745',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Lavinia','Mondragon','lavinia.mondragon@s.fim.upb.ro','0713181613',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Nandru','Ragar','nandru.ragar@s.drept.unibuc.ro','0718755556',8);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Petru','Stirbei','petru.stirbei@s.mk.ase.ro','0713047939',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Artur','Miklos','artur.miklos@s.psih.uaic.ro','0717996989',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Virgil','Cosma','virgil.cosma@s.fmi.ubb.ro','0717719670',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Grigore','Rosetti','grigore.rosetti@s.lit.uaic.ro','0715699237',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Marku','Pop','marku.pop@s.fmi.ubb.ro','0713941978',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Vasile','Belododia','vasile.belododia@s.econ.ubb.ro','0715124436',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Virgil','Rotaru','virgil.rotaru@s.psih.uaic.ro','0718564808',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Vasilescu','Macedonski','vasilescu.macedonski@s.fmi.ubb.ro','0710470811',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Petar','Antonescu','petar.antonescu@s.lit.uaic.ro','0710952309',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ana-maria','Amanar','ana-maria.amanar@s.econ.ubb.ro','0716604590',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Rozalia','Stanescu','rozalia.stanescu@s.acs.upb.ro','0715676036',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Mirela','Fidatov','mirela.fidatov@s.fim.upb.ro','0710891881',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dorota','Hu topila','dorota.hutopila@s.econ.ubb.ro','0713873452',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Tatiana','Hasdeu','tatiana.hasdeu@s.cig.ase.ro','0718584925',9);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Aurora','Enache','aurora.enache@s.fim.upb.ro','0719159067',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Isabella','Ripnu','isabella.ripnu@s.cig.ase.ro','0712103815',9);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Viorica','Adamache','viorica.adamache@s.econ.ubb.ro','0716769882',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Vactorita','Blerinca','vactorita.blerinca@s.mk.ase.ro','0719746887',10);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Vanda','Cojocar','vanda.cojocar@s.acs.upb.ro','0712904060',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dinu','Stoica','dinu.stoica@s.fmi.unibuc.ro','0710003393',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ion','Tugurlan','ion.tugurlan@s.acs.upb.ro','0715978439',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Simon','Serbanescu','simon.serbanescu@s.psih.uaic.ro','0716611709',3);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Danut','Nicu','danut.nicu@s.econ.ubb.ro','0714537418',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Adrian','Nicolescu','adrian.nicolescu@s.fmi.unibuc.ro','0718630697',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Aurel','Yonescu','aurel.yonescu@s.econ.ubb.ro','0716549186',1);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Lucian','Lixandroi','lucian.lixandroi@s.acs.upb.ro','0718370501',6);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Horasiu','Mihalache','horasiu.mihalache@s.fmi.ubb.ro','0710555891',2);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Augustin','Marin','augustin.marin@s.fmi.unibuc.ro','0710568511',7);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Raul','Nemes','raul.nemes@s.fim.upb.ro','0716111831',5);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Floarea','Argetoianu','floarea.argetoianu@s.lit.uaic.ro','0719936551',4);

INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Erika','Piturca','erika.piturca@s.econ.ubb.ro','0714305781',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Aurica','Gaina','aurica.gaina@s.lit.uaic.ro','0713795942',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Angelica','Ganea','angelica.ganea@s.econ.ubb.ro','0710460033',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Lina','Alecsandri','lina.alecsandri@s.lit.uaic.ro','0719195286',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ecaterina','Selymes','ecaterina.selymes@s.acs.upb.ro','0713393284',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Tabitha','Dita','tabitha.dita@s.cig.ase.ro','0719857123',9);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Costela','Petri','costela.petri@s.lit.uaic.ro','0713280182',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Luminita','Banciu','luminita.banciu@s.econ.ubb.ro','0711400151',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Crina','Ghezzo','crina.ghezzo@s.fim.upb.ro','0719454426',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Costache','Izbasa','costache.izbasa@s.econ.ubb.ro','0714818663',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Mihai','Stinga','mihai.stinga@s.fmi.ubb.ro','0717912858',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Geza','Diaconu','geza.diaconu@s.drept.unibuc.ro','0716991380',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Varujan','Otvos','varujan.otvos@s.lit.uaic.ro','0710507729',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Antonio','Olinescu','antonio.olescu@s.drept.unibuc.ro','0719532626',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dorin','Stanasila','dorin.stanasila@s.acs.upb.ro','0713768074',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Toma','Tilea','toma.tilea@s.econ.ubb.ro','0715041488',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Anton','Lupei','anton.lupei@s.psih.uaic.ro','0711738274',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Cornel','Butacu','cornel.butacu@s.fmi.unibuc.ro','0711080727',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Adi','Butacu','adi.butacu@s.mk.ase.ro','0716145222',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Lenuta','Cosmescu','lenuta.cosmescu@s.psih.uaic.ro','0719057529',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Rozalia','Vădeu','rozalia.vădeu@s.cig.ase.ro','0716018676',9);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Valeria','Vladimiri','valeria.vladimiri@s.fmi.unibuc.ro','0710300043',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Doina','Otvos','doina.otvos@s.fmi.unibuc.ro','0716242498',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Relia','Iordache','relia.iordache@s.lit.uaic.ro','0719627786',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Cristina','Albu','cristina.albu@s.psih.uaic.ro','0715953067',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Constanta','Blaga','constanta.blaga@s.fmi.unibuc.ro','0718512307',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Codruta','Vulpes','codruta.vulpes@s.lit.uaic.ro','0715810797',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Virginia','Covaci','virginia.covaci@s.fim.upb.ro','0718171966',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Daciana','Ionita','daciana.ionita@s.drept.unibuc.ro','0710758409',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ionache','Barnutiu','ionache.barnutiu@s.psih.uaic.ro','0711750238',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'George','Lupescu','george.lupescu@s.fmi.unibuc.ro','0718296367',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Sergiu','Bus','sergiu.bus@s.mk.ase.ro','0718903842',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Costin','Kazaku','costin.kazaku@s.mk.ase.ro','0712407131',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dragoslav','Torje','dragoslav.torje@s.psih.uaic.ro','0711076417',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dracul','Manea','dracul.manea@s.fim.upb.ro','0714600319',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ionache','Mihalache','ionache.mihalache@s.mk.ase.ro','0711558839',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Iulien','Mondragon','iulien.mondragon@s.fmi.ubb.ro','0714187157',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Pereteanu','Kogalniceanu','pereteanu.kogalniceanu@s.fmi.unibuc.ro','0716616631',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Doru','Cerneea','doru.cerneea@s.mk.ase.ro','0711657214',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Monique','Silivasi','monique.silivasi@s.fmi.ubb.ro','0712999751',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Marina','Vladimirescu','marina.vladimirescu@s.drept.unibuc.ro','0714888544',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Carla','Ojarcu','carla.ojarcu@s.mk.ase.ro','0711322886',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Alexandra','Ene','alexandra.ene@s.acs.upb.ro','0716469761',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Rodica','Moculescu','rodica.moculescu@s.econ.ubb.ro','0719710467',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Iona','Kogalniceanu','iona.kogalniceanu@s.drept.unibuc.ro','0712169600',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ileana','Goian','ileana.goian@s.psih.uaic.ro','0719465288',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Olivia','Pescariu','olivia.pescariu@s.lit.uaic.ro','0713291464',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Corina','Popa','corina.popa@s.mk.ase.ro','0715458358',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Viorica','Saftoiu','viorica.saftoiu@s.fmi.unibuc.ro','0718318737',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dragoslav','Nistor','dragoslav.nistor@s.fmi.unibuc.ro','0716129810',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Catarino','Cosma','catarino.cosma@s.drept.unibuc.ro','0710656903',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Adam','Văcnu','adam.văcnu@s.mk.ase.ro','0717445245',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Eftermie','Alexandrescu','eftermie.alexandrescu@s.lit.uaic.ro','0716050051',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Alin','Ojarcu','alin.ojarcu@s.lit.uaic.ro','0713496883',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Cristinel','Georgescu','cristinel.georgescu@s.fmi.unibuc.ro','0711670493',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Raul','Arcos','raul.arcos@s.econ.ubb.ro','0716306452',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Felix','Cojocar','felix.cojocar@s.acs.upb.ro','0714389431',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dragomir','Maniu','dragomir.maniu@s.fim.upb.ro','0712524132',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Marcel','Dinu','marcel.dinu@s.fmi.unibuc.ro','0716650298',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Delia','Rebreanu','delia.rebreanu@s.econ.ubb.ro','0710097443',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Codruta','Simeonescu','codruta.simeonescu@s.drept.unibuc.ro','0713086976',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Mirela','Bucur','mirela.bucur@s.fmi.ubb.ro','0717629576',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Luminita','Mihai','luminita.mihai@s.fmi.unibuc.ro','0716418385',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Daria','Stirbei','daria.stirbei@s.acs.upb.ro','0715371964',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Bogdana','Cardei','bogdana.cardei@s.drept.unibuc.ro','0719364039',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Atanasia','Mihalache','atanasia.mihalache@s.mk.ase.ro','0714179142',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Eveline','Nica','eveline.nica@s.fmi.ubb.ro','0712750549',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Estera','Giurgiu','estera.giurgiu@s.acs.upb.ro','0710759196',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Flori','Blerinca','flori.blerinca@s.cig.ase.ro','0711112255',9);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ciodaru','Filipescu','ciodaru.filipescu@s.mk.ase.ro','0716289992',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Emanuel','Moldovan','emanuel.moldovan@s.acs.upb.ro','0715159728',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Stelian','Costin','stelian.costin@s.drept.unibuc.ro','0714408554',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Teodor','Tugurlan','teodor.tugurlan@s.lit.uaic.ro','0712416041',4);


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INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Nicosor','Bengescu','nicosor.bengescu@s.fmi.unibuc.ro','0711862663',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Alexandru','Pescariu','alexandru.pescariu@s.lit.uaic.ro','0715175722',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Sorin','Prunea','sorin.prunea@s.drept.unibuc.ro','0712574024',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Sorin','Milcu','sorin.milcu@s.fim.upb.ro','0713236070',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Sergiu','Enache','sergiu.enache@s.cig.ase.ro','0718483248',9);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Cristinel','Diaconu','cristinel.diaconu@s.psih.uaic.ro','0716718214',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Lizuca','Kazaku','lizuca.kazaku@s.econ.ubb.ro','0715417962',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Claudia','Checiches','claudia.checiches@s.fmi.ubb.ro','0718810233',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Tara','Roman','tara.roman@s.mk.ase.ro','0711971003',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Teodora','Milosovici','teodora.milosovici@s.lit.uaic.ro','0714425352',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Jeni','Morosanu','jeni.morosanu@s.mk.ase.ro','0714585905',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Cecilia','Iordanescu','cecilia.iordanescu@s.acs.upb.ro','0711674200',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Yessenia','Rusu','yessenia.rusu@s.psih.uaic.ro','0710894838',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Tereza','Zamfir','tereza.zamfir@s.lit.uaic.ro','0713207933',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Luminita','Draghici','luminita.draghici@s.lit.uaic.ro','0719723565',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Elena','Sala','elena.sala@s.lit.uaic.ro','0715410820',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Tiberiu','Banica','tiberiu.banica@s.econ.ubb.ro','0718054385',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Cristinel','Constantinescu','cristinel.constantinescu@s.fmi.ubb.ro','0717070035',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Razvan','Cozma','razvan.cozma@s.econ.ubb.ro','0718305137',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Serghei','Silivasi','serghei.silivasi@s.psih.uaic.ro','0719260291',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Carol','Petri','carol.petri@s.drept.unibuc.ro','0712882079',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Beniamin','Lupu','beniamin.lupu@s.acs.upb.ro','0718242448',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Dorin','Păcrulescu','dorin.păcrulescu@s.fmi.unibuc.ro','0716823326',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Mihaita','Moisuc','mihaita.moisuc@s.lit.uaic.ro','0712032711',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dan','Artenie','dan.artenie@s.drept.unibuc.ro','0710712913',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Shaitis','Lazarescu','shaitis.lazarescu@s.econ.ubb.ro','0717200827',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Dominique','Popescu','dominique.popescu@s.econ.ubb.ro','0717284501',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Draguta','Istrati','draguta.istrati@s.cig.ase.ro','0714382385',9);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Gheorghita','Teodorescu','gheorghita.teodorescu@s.acs.upb.ro','0714026240',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Melania','Morosanu','melania.morosanu@s.lit.uaic.ro','0714143628',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Lavinia','Ene','lavinia.ene@s.cig.ase.ro','0717368574',9);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Elena','Vianu','elena.vianu@s.acs.upb.ro','0718363638',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Jenica','Cristescu','jenica.cristescu@s.fmi.ubb.ro','0715277726',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Kathryn','Puiu','kathryn.puiu@s.econ.ubb.ro','0717223348',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Monica','Presecan','monica.presecan@s.mk.ase.ro','0719475518',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Beatrix','Silivasi','beatrix.silivasi@s.fmi.ubb.ro','0719625997',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Alexandru','Hasdeu','alexandru.hasdeu@s.acs.upb.ro','0714713733',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Teodor','Hagi','teodor.hagi@s.mk.ase.ro','0711863114',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Jan','Văduva','jan.văduva@s.fmi.ubb.ro','0712831464',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Ciodaru','Groza','ciodaru.groza@s.drept.unibuc.ro','0714629306',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Vlad','Catargiu','vlad.catargiu@s.fmi.ubb.ro','0718381360',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Nicu','Toma','nicu.toma@s.econ.ubb.ro','0713884221',1);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Marius','Sala','marius.sala@s.psih.uaic.ro','0714988441',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Beryx','Bus','beryx.bus@s.fim.upb.ro','0718318026',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Emil','Butacu','emil.butacu@s.fim.upb.ro','0712465063',5);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Adrian','Toma','adrian.toma@s.psih.uaic.ro','0710955958',3);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Catina','Vasile','catina.vasile@s.fmi.ubb.ro','0713157824',2);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Dana','Pangratiu','dana.pangratiu@s.drept.unibuc.ro','0719751995',8);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Virginia','Filotti','virginia.filotti@s.fmi.unibuc.ro','0711932696',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Anamaria','Pop','anamaria.pop@s.fmi.unibuc.ro','0718846844',7);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Ioanela','Sandulescu','ioanela.sandulescu@s.acs.upb.ro','0716925524',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_student.nextval,'Voileta','Teodorescu','voileta.teodorescu@s.mk.ase.ro','0717138847',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Virginia','Morariu','virginia.morariu@s.acs.upb.ro','0712496213',6);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Flavia','Mihalache','flavia.mihalache@s.mk.ase.ro','0712563816',10);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Emilia','Preda','emilia.preda@s.lit.uaic.ro','0719923159',4);
INSERT INTO students (student_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_student.nextval,'Iulia','Pogonat','iulia.pogonat@s.drept.unibuc.ro','0715030383',8);
--professors
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Denis','Tugurlan','denis.tugurlan@p.econ.ubb.ro','0714797634',1);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Dragoslav','Poenaru','dragoslav.poenaru@p.econ.ubb.ro','0710370449',1);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Iuliu','Macedonski','iuliu.macedonski@p.econ.ubb.ro','0714898147',1);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Anton','Cojocar','anton.cojocar@p.econ.ubb.ro','0712793202',1);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Costel','Voinea','costel.voinea@p.econ.ubb.ro','0713459996',1);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Stelian','Istrati','stelian.istrati@p.econ.ubb.ro','0715083120',1);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Filip','Grul','filip.grul@p.fmi.ubb.ro','0713320046',2);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Dragos','Nemes','dragos.nemes@p.fmi.ubb.ro','0716451737',2);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Emanuel','Moldovanu','emanuel.moldovanu@p.fmi.ubb.ro','0711353899',2);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Jean','Constantinescu','jean.constantinescu@p.fmi.ubb.ro','0716572298',2);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Eveline','Cristea','eveline.cristea@p.fmi.ubb.ro','0714065699',2);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Vasilica','Enache','vasilica.enache@p.fmi.ubb.ro','0711795997',2);

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INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Zana','Marinescu','zana.marinescu@p.psih.uaic.ro','0714666086',3);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Roxana','Ghita','roxana.ghita@p.psih.uaic.ro','0719184761',3);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Paula','Banciu','paula.banciu@p.psih.uaic.ro','0719302297',3);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Antanasia','Cretu','antanasia.cretu@p.psih.uaic.ro','0712169590',3);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Sorinna','Sollomovici','sorinna.sollomovici@p.psih.uaic.ro','0712142130',3);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Magdalena','Leonte','magdalena.leonte@p.psih.uaic.ro','0711577686',3);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Izabela','Mocanu','izabela.mocanu@p.lit.uaic.ro','0718443347',4);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Crina','Negutesco','crina.negutesco@p.lit.uaic.ro','0713424516',4);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Marcel','Pogonat','marcel.pogonat@p.lit.uaic.ro','0718621761',4);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Niculaie','Parasca','niculaie.parasca@p.lit.uaic.ro','0715308756',4);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Dominik','Baboescu','dominik.baboescu@p.lit.uaic.ro','0713390039',4);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Dominik','Eliade','dominik.eliaide@p.lit.uaic.ro','0717864110',4);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Stan','Diaconu','stan.diaconu@p.fim.upb.ro','0718367017',5);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Teodor','Cosovei','teodor.cosovei@p.fim.upb.ro','0716094293',5);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Horea','Tarus','horea.tarus@p.fim.upb.ro','0715954418',5);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Arsenie','Diaconu','arsenie.diaconu@p.fim.upb.ro','0717399577',5);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Aurel','Cernat','aurel.cernat@p.fim.upb.ro','0710052722',5);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Petar','Cretu','petar.cretu@p.fim.upb.ro','0715122136',5);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Cristina','Mironescu','cristina.mironescu@p.acs.upb.ro','0715585904',6);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Eugenia','Muresan','eugenia.muresan@p.acs.upb.ro','0717145193',6);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Stefana','Eliade','stefana.eliaide@p.acs.upb.ro','0712259848',6);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Adelina','Stolovan','adelina.stolovan@p.acs.upb.ro','0718791546',6);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Silvia','Goldis','silvia.goldis@p.acs.upb.ro','0716000393',6);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Daniela','Suciu','daniela.suciu@p.acs.upb.ro','0714948699',6);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Anca','Olaru','anca.olaru@p.fmi.unibuc.ro','0712634464',7);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Ana-maria','Ilie','ana-
maria.ilie@p.fmi.unibuc.ro','0719798180',7);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Ana','Vasilu','ana.vasilu@p.fmi.unibuc.ro','0717367734',7);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Isabela','Pop','isabela.pop@p.fmi.unibuc.ro','0711038361',7);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Adrian','Tatarescu','adrian.tatarescu@p.fmi.unibuc.ro','0714403026',7);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Vasile','Serbanescu','vasile.serbanescu@p.fmi.unibuc.ro','0715251628',7);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Matei','Sala','matei.sala@p.drept.unibuc.ro','0718617221',8);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Dominik','Costache','dominik.costache@p.drept.unibuc.ro','0713920879',8);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Ivan','Rosetti','ivan.rosetti@p.drept.unibuc.ro','0719216525',8);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Serafim','Moculescu','serafim.moculescu@p.drept.unibuc.ro','0716986693',8);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Ionut','Gherea','ionut.gherea@p.drept.unibuc.ro','0711470121',8);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Timotei','Lupu','timotei.lupu@p.drept.unibuc.ro','0719318032',8);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Mihail','Alecsandri','mihail.alecsandri@p.cig.ase.ro','0711964656',9);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Nic','Bengescu','nic.bengescu@p.cig.ase.ro','0710231754',9);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Camelia','Nistor','camelia.nistor@p.cig.ase.ro','0718037348',9);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Mihaela','Puscas','mihaela.puscas@p.cig.ase.ro','0714099341',9);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Margareta','Gilca','margareta.gilca@p.cig.ase.ro','0712973355',9);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Juana','Simeonescu','juana.simeonescu@p.cig.ase.ro','0715491485',9);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Carmen','Constantinescu','carmen.constantinescu@p.mk.ase.ro','0712291342',10);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Lia','Nicolescu','lia.nicolescu@p.mk.ase.ro','0710577858',10);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Denisa','Tanase','denisa.tanase@p.mk.ase.ro','0714150043',10);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES (seq_professor.nextval,'Adriana','Oprea','adriana.oprea@p.mk.ase.ro','0712195095',10);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Miruna','Dragomir','miruna.dragomir@p.mk.ase.ro','0716207409',10);
INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(seq_professor.nextval,'Mihaela','Catargiu','mihaela.catargiu@p.mk.ase.ro','0717608618',10);
--classes
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Contabilitate bancara',1);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Contabilitate financiara',2);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Marketing',3);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Gestiunea financiara a firmei',4);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Gestiune bancara',5);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Buget si trezorerie publica',6);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Structuri de date',7);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Dezvoltarea aplicatiilor Web',8);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Rețele de calculatoare',9);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Sisteme distribuite si securitate',10);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Grafica si vizualizare',11);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Dezvoltarea aplicatiilor mobile',12);

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INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Psihologia educatiei',13);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Fundamentele psihologiei',14);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Psihologie sociala',15);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Tehnici de munca intelectuala',16);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Etica academica',17);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Statistica aplicata in psihologie',18);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Gestionarea informăției în societatea contemporană',19);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Modele de comunicare si relatii publice',20);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Etnologie',21);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Literatura universala',22);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Comunicare si relatii publice',23);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Cultura si politica in context international',24);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Biologie Celulara si Moleculara',25);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Nanobiomateriale',26);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Fiziologie',27);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Inginerie Medicala',28);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Electronica Analogica si Digitala in Biomedicina',29);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Analiza Probelor Biologice',30);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Proiectare logica',31);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Elemente de electronica analogica',32);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Proiectarea algoritmilor',33);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Protocola de comunicatii',34);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Tehnici de optimizare',35);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Arhitectura calculatoarelor',36);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Inteligenta artificiala',37);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Fundamentele limbajelor de programare',38);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Metode de dezvoltare software',39);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Inginerie software',40);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Programare orientata pe obiecte',41);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Baze de date',42);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Drept civil',43);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Drept constitutional',44);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Filosofie',45);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Metodologie juridica',46);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Drept penal',47);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Criminologie',48);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Dreptul afacerilor',49);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Macroeconomie',50);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Econometrie',51);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Gestiune financiara',52);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Control de gestiune',53);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Analiza economico-financiara',54);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Macroeconomie',55);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Mediul de afaceri european',56);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Etica în afaceri',57);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Business to business marketing',58);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Cybermarketing',59);
INSERT INTO classes (class_id,class_name,professor_id) VALUES (seq_class.nextval,'Tehnici de vanzare',60);
--classes_students
INSERT INTO classes_students (student_id,class_id) VALUES (1,22);
INSERT INTO classes_students (student_id,class_id) VALUES (1,23);
INSERT INTO classes_students (student_id,class_id) VALUES (1,21);
INSERT INTO classes_students (student_id,class_id) VALUES (2,2);
INSERT INTO classes_students (student_id,class_id) VALUES (2,4);
INSERT INTO classes_students (student_id,class_id) VALUES (2,1);
INSERT INTO classes_students (student_id,class_id) VALUES (3,59);
INSERT INTO classes_students (student_id,class_id) VALUES (3,58);
INSERT INTO classes_students (student_id,class_id) VALUES (3,56);
INSERT INTO classes_students (student_id,class_id) VALUES (4,34);
INSERT INTO classes_students (student_id,class_id) VALUES (4,32);
INSERT INTO classes_students (student_id,class_id) VALUES (4,33);
INSERT INTO classes_students (student_id,class_id) VALUES (5,19);
INSERT INTO classes_students (student_id,class_id) VALUES (5,21);
INSERT INTO classes_students (student_id,class_id) VALUES (5,22);
INSERT INTO classes_students (student_id,class_id) VALUES (6,14);
INSERT INTO classes_students (student_id,class_id) VALUES (6,16);
INSERT INTO classes_students (student_id,class_id) VALUES (6,17);
INSERT INTO classes_students (student_id,class_id) VALUES (7,21);
INSERT INTO classes_students (student_id,class_id) VALUES (7,19);
INSERT INTO classes_students (student_id,class_id) VALUES (7,20);
INSERT INTO classes_students (student_id,class_id) VALUES (8,4);
INSERT INTO classes_students (student_id,class_id) VALUES (8,5);
INSERT INTO classes_students (student_id,class_id) VALUES (8,3);
INSERT INTO classes_students (student_id,class_id) VALUES (9,28);
INSERT INTO classes_students (student_id,class_id) VALUES (9,29);
INSERT INTO classes_students (student_id,class_id) VALUES (9,26);
INSERT INTO classes_students (student_id,class_id) VALUES (10,13);
INSERT INTO classes_students (student_id,class_id) VALUES (10,17);
INSERT INTO classes_students (student_id,class_id) VALUES (10,16);
INSERT INTO classes_students (student_id,class_id) VALUES (11,33);
INSERT INTO classes_students (student_id,class_id) VALUES (11,31);
INSERT INTO classes_students (student_id,class_id) VALUES (11,34);
INSERT INTO classes_students (student_id,class_id) VALUES (12,29);
INSERT INTO classes_students (student_id,class_id) VALUES (12,26);
INSERT INTO classes_students (student_id,class_id) VALUES (12,25);
INSERT INTO classes_students (student_id,class_id) VALUES (13,55);
INSERT INTO classes_students (student_id,class_id) VALUES (13,58);
INSERT INTO classes_students (student_id,class_id) VALUES (13,56);

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[illegible]

[illegible]

[illegible]

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[illegible]

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[illegible]

SQL Worksheet: History

Worksheet

Query Builder

1386

INSERT INTO classes_students (student_id,class_id) VALUES (299,20);

1387

INSERT INTO classes_students (student_id,class_id) VALUES (299,19);

1388

INSERT INTO classes_students (student_id,class_id) VALUES (300,46);

1389

INSERT INTO classes_students (student_id,class_id) VALUES (300,43);

1390

INSERT INTO classes_students (student_id,class_id) VALUES (300,44);

1391

1392

/

1393

commit;

1394

1395

-- selects

1396

select * from locations order by 1;

1397

select * from universities order by 1;

1398

select * from faculties order by 1;

1399

select * from students order by 1;

1400

select * from professors order by 1;

1401

select * from classes order by 1;

1402

select * from classes_students order by 1;

1403

Script Output

Query Result

SQL

All Rows Fetched: 15 in 0.004 seconds

	LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY	STATE_REGION	COUNTRY
1	1	Strada Mihail Kogalniceanu 1	400084	Cluj-Napoca	Cluj	Romania
2	2	Bulevardul Carol 11	700506	Iasi	Iasi	Romania
3	3	Splaiul Independentei 313	060042	Bucuresti	Bucuresti	Romania
4	4	Bulevardul M. Kogalniceanu 36-46	050107	Bucuresti	Bucuresti	Romania
5	5	Piata Romana 6, Sector 1	010374	Bucuresti	Bucuresti	Romania
6	6	Str. Teodor Mihail, Nr. 58-60	400591	Cluj-Napoca	Cluj	Romania
7	7	Str. Mihail Kogalniceanu, nr. 1	400084	Cluj-Napoca	Cluj	Romania
8	8	Str. Toma Cosma, Nr. 3	700554	Iasi	Iasi	Romania
9	9	B-dul Carol I, Nr. 11	700506	Iasi	Iasi	Romania
10	10	Strada Gheorghe Polizu, nr 1-7, Corp F	011061	Bucuresti	Bucuresti	Romania
11	11	Splaiul Independentei, nr. 313	060042	Bucuresti	Bucuresti	Romania
12	12	Str. Academiei nr.14	010014	Bucuresti	Bucuresti	Romania
13	13	Bd. Mihail Kogalniceanu nr. 36-46	050107	Bucuresti	Bucuresti	Romania
14	14	Str. Caderera Bastiliei nr. 2-10	010374	Bucuresti	Bucuresti	Romania
15	15	Bd. Dacia nr. 41	010404	Bucuresti	Bucuresti	Romania

SQL Worksheet: History

Worksheet

Query Builder

1386

INSERT INTO classes_students (student_id,class_id) VALUES (299,20);

1387

INSERT INTO classes_students (student_id,class_id) VALUES (299,19);

1388

INSERT INTO classes_students (student_id,class_id) VALUES (300,46);

1389

INSERT INTO classes_students (student_id,class_id) VALUES (300,43);

1390

INSERT INTO classes_students (student_id,class_id) VALUES (300,44);

1391

1392

/

1393

commit;

1394

1395

-- selects

1396

select * from locations order by 1;

1397

select * from universities order by 1;

1398

select * from faculties order by 1;

1399

select * from students order by 1;

1400

select * from professors order by 1;

1401

select * from classes order by 1;

1402

select * from classes_students order by 1;

1403

Script Output

Query Result

SQL

All Rows Fetched: 5 in 0.003 seconds

	UNIVERSITY_ID	UNIVERSITY_NAME	LOCATION_ID
1	1	Universitatea Babeș-Bolyai	1
2	2	Universitatea Alexandru Ioan Cuza din Iasi	2
3	3	Universitatea Politehnica din Bucuresti	3
4	4	Universitatea din Bucuresti	4
5	5	Academia de Studii Economice din Bucuresti	5

SQL Worksheet: History

Worksheet: Query Builder

```
1386 INSERT INTO classes_students (student_id,class_id) VALUES (299,20);
1387 INSERT INTO classes_students (student_id,class_id) VALUES (299,19);
1388 INSERT INTO classes_students (student_id,class_id) VALUES (300,46);
1389 INSERT INTO classes_students (student_id,class_id) VALUES (300,43);
1390 INSERT INTO classes_students (student_id,class_id) VALUES (300,44);
1391
1392 /
1393 commit;
1394
1395 -- selects
1396 select * from locations order by 1;
1397 select * from universities order by 1;
1398 select * from faculties order by 1;
1399 select * from students order by 1;
1400 select * from professors order by 1;
1401 select * from classes order by 1;
1402 select * from classes_students order by 1;
1403
```

Script Output x Query Result x

SQL | All Rows Fetched: 10 in 0.002 seconds

	FACULTY_ID	FACULTY_NAME	UNIVERSITY_ID	LOCATION_ID
1	1	Facultatea de Stiinta Economica si Gestiunea Afacerilor	1	6
2	2	Facultatea de Matematica si Informatica	1	7
3	3	Facultatea de Psihologie si stiinte ale Educatiei	2	8
4	4	Facultatea de Litere	2	9
5	5	Facultatea de Inginerie Medicala	3	10
6	6	Facultatea de Automatica si Calculatoare	3	11
7	7	Facultatea de Matematica si Informatica	4	12
8	8	Facultatea de Drept	4	13
9	9	Facultatea de Contabilitate si Informatica de Gestiune	5	13
10	10	Facultatea de Marketing	5	14

SQL Worksheet: History

Worksheet: Query Builder

```
1386 INSERT INTO classes_students (student_id,class_id) VALUES (299,20);
1387 INSERT INTO classes_students (student_id,class_id) VALUES (299,19);
1388 INSERT INTO classes_students (student_id,class_id) VALUES (300,46);
1389 INSERT INTO classes_students (student_id,class_id) VALUES (300,43);
1390 INSERT INTO classes_students (student_id,class_id) VALUES (300,44);
1391
1392 /
1393 commit;
1394
1395 -- selects
1396 select * from locations order by 1;
1397 select * from universities order by 1;
1398 select * from faculties order by 1;
1399 select * from students order by 1;
1400 select * from professors order by 1;
1401 select * from classes order by 1;
1402 select * from classes_students order by 1;
1403
```

Script Output x Query Result x

SQL | Fetching next 50 rows in 0.013 seconds

	STUDENT_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	FACULTY_ID
281	281	Alexandru	Hasdeu	alexandru.hasdeu@acs.upb.ro	0714713733	6
282	282	Teodor	Hagi	teodor.hagi@mk.ase.ro	0711863114	10
283	283	Jan	Văduva	jan.văduva@fmi.ubb.ro	0712831464	2
284	284	Ciodaru	Groza	ciodaru.groza@drept.unibuc.ro	0714629306	8
285	285	Vlad	Cetargiu	vlad.cetargiu@fmi.ubb.ro	0718381360	2
286	286	Hicu	Toma	nicu.toma@econ.ubb.ro	0713854221	1
287	287	Marius	Sala	marius.sala@psih.uaic.ro	0714989441	3
288	288	Beryn	Bus	beryn.bus@fin.upb.ro	0710310026	5
289	289	Emil	Butacu	emil.butacu@fin.upb.ro	0712465063	5
290	290	Adrian	Toma	adrian.toma@psih.uaic.ro	0710955958	3
291	291	Catrina	Vasile	catrina.vasile@fmi.ubb.ro	0713157824	2
292	292	Dana	Pangratiu	dana.pangratiu@drept.unibuc.ro	0719751995	8
293	293	Virginia	Filotti	virginia.filotti@fmi.unibuc.ro	0711932696	7
294	294	Anamaria	Pop	anamaria.pop@fmi.unibuc.ro	0718846844	7
295	295	Ioanela	Sandulescu	ioanela.sandulescu@acs.upb.ro	0716925524	6
296	296	Voileta	Teodorescu	voileta.teodorescu@mk.ase.ro	0717138847	10
297	297	Virginia	Morariu	virginia.morariu@acs.upb.ro	0712496213	6
298	298	Flavia	Mihalache	flavia.mihalache@mk.ase.ro	0712563816	10
299	299	Emilia	Freda	emilia.freda@lit.uaic.ro	0719923159	4
300	300	Iulia	Pogonat	iulia.pogonat@drept.unibuc.ro	0715030383	8

SQL Worksheet: History

Worksheet: Query Builder

```

1386 INSERT INTO classes_students (student_id,class_id) VALUES (299,20);
1387 INSERT INTO classes_students (student_id,class_id) VALUES (299,19);
1388 INSERT INTO classes_students (student_id,class_id) VALUES (300,46);
1389 INSERT INTO classes_students (student_id,class_id) VALUES (300,43);
1390 INSERT INTO classes_students (student_id,class_id) VALUES (300,44);
1391
1392 /
1393 commit;
1394
1395 -- selects
1396 select * from locations order by 1;
1397 select * from universities order by 1;
1398 select * from faculties order by 1;
1399 select * from students order by 1;
1400 select * from professors order by 1;
1401 select * from classes order by 1;
1402 select * from classes_students order by 1;
1403

```

Script Output x Query Result x

All Rows Fetched: 60 in 0.005 seconds

	PROFESSOR_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	FACULTY_ID
41	41	Adrian	Tatarescu	adrian.tatarescu@p.fmi.unibuc.ro	0714403026	7
42	42	Vasile	Serbanescu	vasile.serbanescu@p.fmi.unibuc.ro	0715251628	7
43	43	Matei	Sala	matei.sala@p.drept.unibuc.ro	0718617221	8
44	44	Dominik	Costache	dominik.costache@p.drept.unibuc.ro	0713920879	8
45	45	Ivan	Rosetti	ivan.rosetti@p.drept.unibuc.ro	0719216525	8
46	46	Serafim	Moculescu	serafim.moculescu@p.drept.unibuc.ro	0716986693	8
47	47	Ionut	Gherea	ionut.gherea@p.drept.unibuc.ro	0711470121	8
48	48	Timotei	Lupu	timotei.lupu@p.drept.unibuc.ro	0719318032	8
49	49	Mihail	Alecsandri	mihail.alecsandri@p.cig.ase.ro	0711964656	9
50	50	Nic	Bengescu	nic.bengescu@p.cig.ase.ro	0710231754	9
51	51	Camelia	Nistor	camelia.nistor@p.cig.ase.ro	0718037348	9
52	52	Mihaela	Puscas	mihaela.puscas@p.cig.ase.ro	0714099341	9
53	53	Margareta	Gilca	margareta.gilca@p.cig.ase.ro	0712973355	9
54	54	Juana	Simeonescu	juana.simeonescu@p.cig.ase.ro	0715491485	9
55	55	Carmen	Constantinescu	carmen.constantinescu@p.mk.ase.ro	0712291342	10
56	56	Lia	Nicolescu	lia.nicolescu@p.mk.ase.ro	0710577858	10
57	57	Denisa	Tanase	denisa.tanase@p.mk.ase.ro	0714150043	10
58	58	Adriana	Oprea	adriana.oprea@p.mk.ase.ro	0712195095	10
59	59	Miruna	Dragomir	miruna.dragomir@p.mk.ase.ro	0714207409	10
60	60	Mihaela	Catargiu	mihaela.catargiu@p.mk.ase.ro	0717605618	10

SQL Worksheet: History

Worksheet: Query Builder

```

1386 INSERT INTO classes_students (student_id,class_id) VALUES (299,20);
1387 INSERT INTO classes_students (student_id,class_id) VALUES (299,19);
1388 INSERT INTO classes_students (student_id,class_id) VALUES (300,46);
1389 INSERT INTO classes_students (student_id,class_id) VALUES (300,43);
1390 INSERT INTO classes_students (student_id,class_id) VALUES (300,44);
1391
1392 /
1393 commit;
1394
1395 -- selects
1396 select * from locations order by 1;
1397 select * from universities order by 1;
1398 select * from faculties order by 1;
1399 select * from students order by 1;
1400 select * from professors order by 1;
1401 select * from classes order by 1;
1402 select * from classes_students order by 1;
1403

```

Script Output x Query Result x

All Rows Fetched: 60 in 0.003 seconds

	CLASS_ID	CLASS_NAME	PROFESSOR_ID
41	41	Programare orientata pe obiecte	41
42	42	Baze de date	42
43	43	Drept civil	43
44	44	Drept constitutional	44
45	45	Filosofie	45
46	46	Metodologie juridica	46
47	47	Drept penal	47
48	48	Criminologie	48
49	49	Dreptul afacerilor	49
50	50	Macroeconomie	50
51	51	Econometrie	51
52	52	Gestiune financiara	52
53	53	Control de gestiune	53
54	54	Analiza economico-financiara	54
55	55	Macroeconomie	55
56	56	Mediul de afaceri european	56
57	57	Erica Aan afaceri	57
58	58	Business to business marketing	58
59	59	Cybermarketing	59
60	60	Tehnici de vanzare	60

SQL Worksheet: History

Worksheet: Query Builder

```

1387 INSERT INTO classes_students (student_id,class_id) VALUES (299,20);
1388 INSERT INTO classes_students (student_id,class_id) VALUES (299,19);
1389 INSERT INTO classes_students (student_id,class_id) VALUES (300,46);
1390 INSERT INTO classes_students (student_id,class_id) VALUES (300,43);
1391
1392 /
1393 commit;
1394
1395 -- select
1396 select * from locations order by 1;
1397 select * from universities order by 1;
1398 select * from faculties order by 1;
1399 select * from students order by 1;
1400 select * from professors order by 1;
1401 select * from classes order by 1;
1402 select * from classes_students order by 1;
1403

```

Script Output: Query Result

All Rows Fetched: 900 in 0.025 seconds

	STUDENT_ID	CLASS_ID
881	294	39
882	294	38
883	295	35
884	295	33
885	295	31
886	296	55
887	296	59
888	296	58
889	297	31
890	297	34
891	297	32
892	298	55
893	298	58
894	298	59
895	299	21
896	299	20
897	299	19
898	300	46
899	300	43
900	300	44

6. Definiți un subprogram stocat care să utilizeze un tip de colecție studiat. Apelați subprogramul.

-- ex6.

-- Definiti un subprogram stocat care returneaza materiile

-- pe care le are o facultate data ca parametru

/

create or replace type tclasses is table of VARCHAR2(70); -- VARCHAR2(70) - class_name

/

create or replace function ex6(ffaculty_id faculties.faculty_id%type)

return tclasses

is

 returntable tclasses := tclasses();

begin

 if ffaculty_id is null then

 return returntable;

 end if;

 select c.class_name

 bulk collect into returntable

 from classes c, professors p, faculties f

 where c.professor_id = p.professor_id

 and p.faculty_id = f.faculty_id

 and f.faculty_id = ffaculty_id;

 return returntable;

end;

/

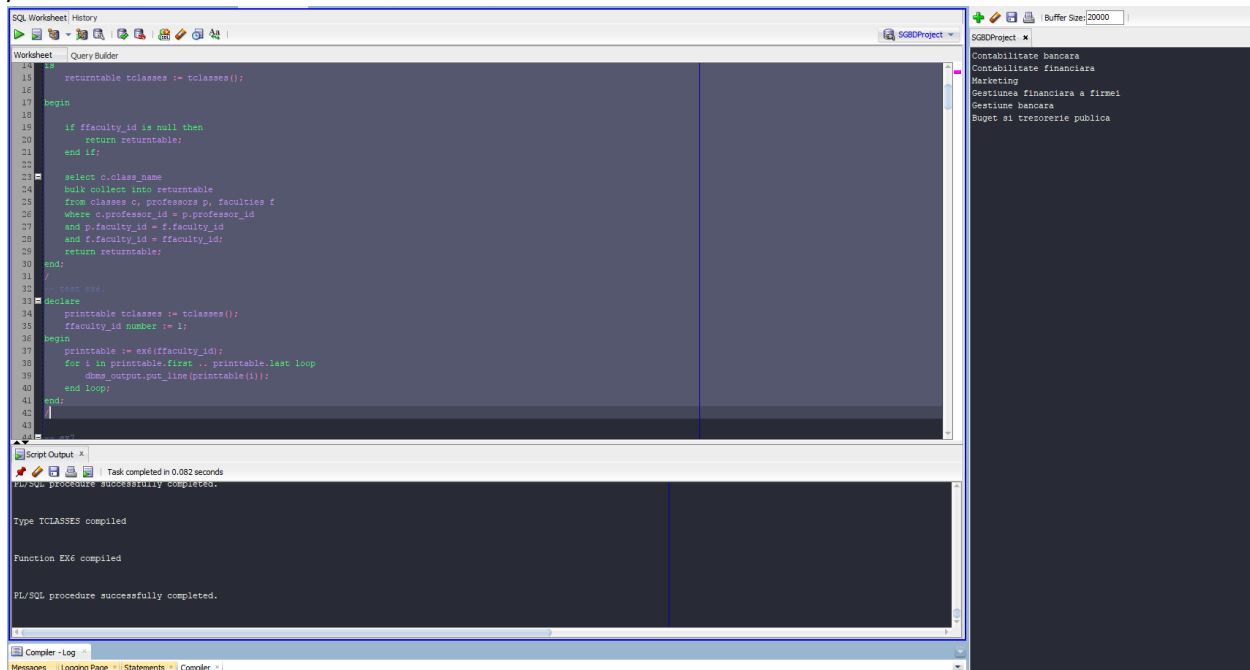
-- test ex6.

declare

```

printtable tclasses := tclasses();
ffaculty_id number := 1;
begin
  printtable := ex6(ffaculty_id);
  for i in printtable.first .. printtable.last loop
    dbms_output.put_line(printtable(i));
  end loop;
end;
/

```



7. Definiți un subprogram stocat care să utilizeze un tip de cursor studiat. Apelați subprogramul.

-- ex7.

-- Definiți un subprogram stocat care să returneze

-- cea mai populara facultate dintr-un oras dat ca parametru

/

create or replace function ex7(locat_name locations.city%type)

return varchar2

is

```

  maxx number := 0;
  rename faculties.faculty_name%type;
  currentnr number;
  f_id faculties.faculty_id%type;
  f_name faculties.faculty_name%type;
  exceptie1 exception;
  cursor c is

```

```

  select faculty_id, faculty_name
  from locations l, faculties f
  where l.location_id = f.faculty_id
  and l.city = locat_name;

```

begin

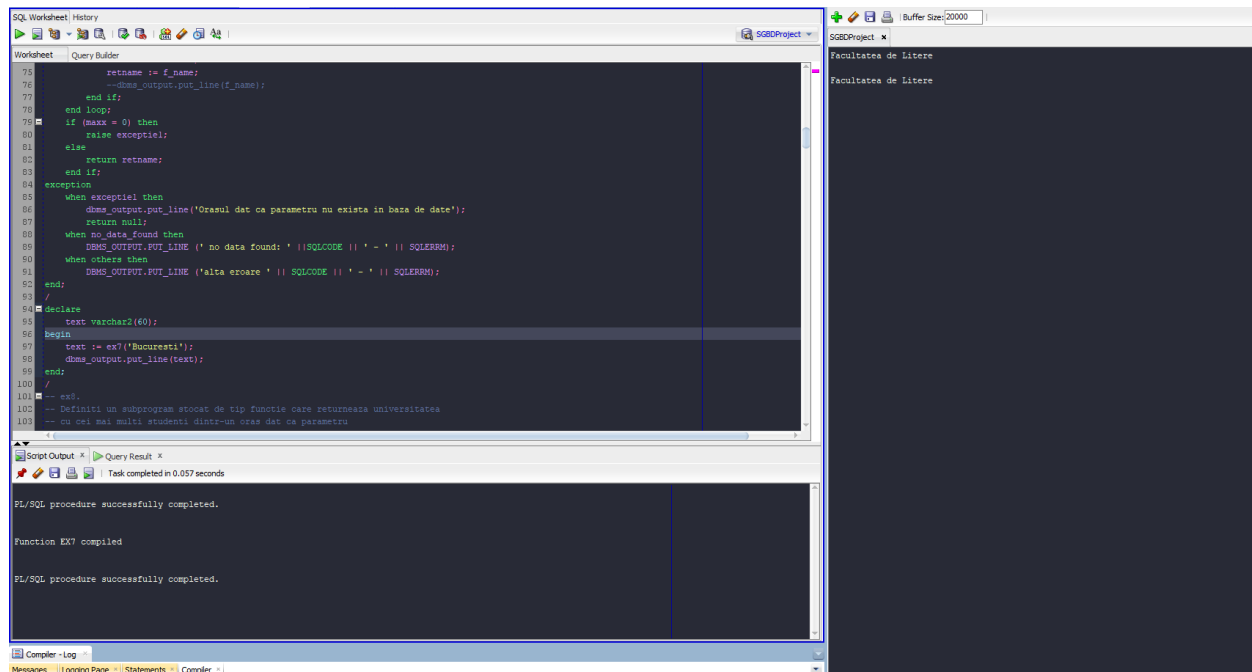
```

open c;
loop
    fetch c into f_id, f_name;
    exit when c%notfound;

    select count(student_id)
    into currentnr
    from students
    where faculty_id = f_id;

    if (currentnr > maxx) then
        maxx := currentnr;
        retname := f_name;
        --dbms_output.put_line(f_name);
    end if;
end loop;
if (maxx = 0) then
    raise exceptie1;
else
    return retname;
end if;
exception
when exceptie1 then
    dbms_output.put_line('Orasul dat ca parametru nu exista in baza de date');
    return null;
when no_data_found then
    DBMS_OUTPUT.PUT_LINE (' no data found: ' || SQLCODE || ' - ' || SQLERRM);
when others then
    DBMS_OUTPUT.PUT_LINE ('alta eroare ' || SQLCODE || ' - ' || SQLERRM);
end;
/
declare
    text varchar2(60);
begin
    text := ex7('Bucuresti');
    dbms_output.put_line(text);
end;
/

```



8. Definiți un subprogram stocat de tip funcție care să utilizeze 3 dintre tabelele definite. Tratați toate excepțiile care pot apărea. Apelați subprogramul astfel încât să evidențiați toate cazurile tratate.

-- ex8.

-- Definiti un subprogram stocat de tip functie care returneaza universitatea

-- cu cei mai multi studenti dintr-un oras dat ca parametru

-- locations, universities, faculties, students

/

create or replace function ex8(locat_name locations.city%type)

return varchar

IS

type uids_type is table of universities.university_id%type;

uids uids_type := uids_type();

uname universities.university_name%type;

checkk number;

checkk2 number;

maxx number := 0;

nrc number;

uid universities.university_id%type;

exceptie1 exception;

exceptie2 exception;

exceptie3 exception;

BEGIN

select count(*) into checkk

from locations

where city = locat_name;

```

if checkk = 0 then
    raise exceptie1;
end if;

select count(university_id)
into checkk2
from universities u, locations l
where u.location_id = l.location_id
and l.city = locat_name;

if (checkk2 = 0) then
    raise exceptie2;
end if;

select university_id
bulk collect into uids
from universities u, locations l
where u.location_id = l.location_id
and l.city = locat_name;

for i in uids.first .. uids.last loop
    select count(student_id)
    into nrc
    from faculties f, students s
    where f.university_id = uids(i)
    and f.faculty_id = s.faculty_id;

    if (nrc > maxx) then
        maxx := nrc;
        uid := uids(i);
    end if;
end loop;

if maxx = 0 then
    raise exceptie3;
else
    select university_name
    into uname
    from universities
    where university_id = uid;

    return uname;
end if;

exception
when exceptie1 then
    dbms_output.put_line('orasul dat ca parametru nu exista in baza de date');

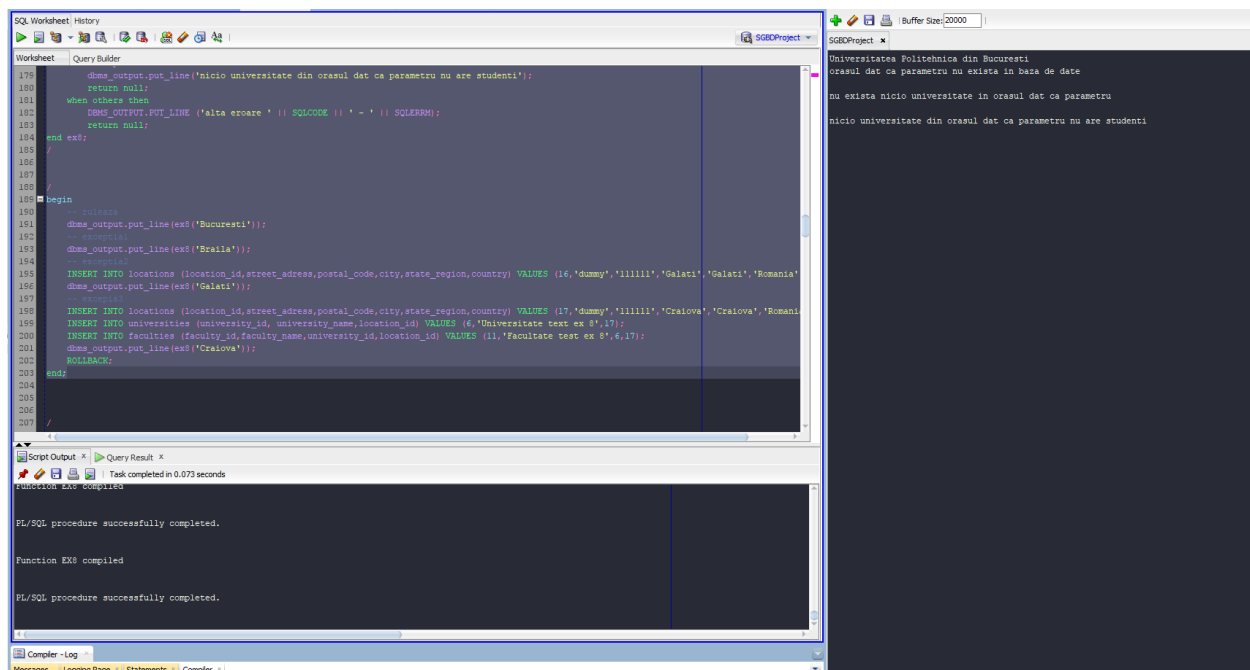
```

```

        return null;
    when exceptie2 then
        dbms_output.put_line('nu exista nicio universitate in orasul dat ca parametru');
        return null;
    when exceptie3 then
        dbms_output.put_line('nicio universitate din orasul dat ca parametru nu are studenti');
        return null;
    when others then
        DBMS_OUTPUT.PUT_LINE ('alta eroare ' || SQLCODE || ' - ' || SQLERRM);
        return null;
end ex8;
/

/
begin
    -- ruleaza
    dbms_output.put_line(ex8('Bucuresti'));
    -- exceptia1
    dbms_output.put_line(ex8('Braila'));
    -- exceptia2
    INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES
(16,'dummy','111111','Galati','Galati','Romania'); --16
    dbms_output.put_line(ex8('Galati'));
    -- exceptia3
    INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES
(17,'dummy','111111','Craiova','Craiova','Romania'); --17
    INSERT INTO universities (university_id, university_name,location_id) VALUES (6,'Universitate text ex
8',17);
    INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (11,'Facultate test
ex 8',6,17);
    dbms_output.put_line(ex8('Craiova'));
    ROLLBACK;
end;

```



9. Definiți un subprogram stocat de tip procedură care să utilizeze 5 dintre tabelele definite. Tratați toate excepțiile care pot apărea. Apelați subprogramul astfel încât să evidențiați toate cazurile tratate.

-- Definiți un subprogram stocat de tip procedură care să afișeze
 -- pe ecran profesorul cu cei mai mulți studenți, care predă la o
 -- facultate dintr-un oraș dat ca parametru
 -- locations, faculties, classes_students, classes, professors
 /

create or replace procedure ex9 (locat_name locations.city%type)
 is

```

checkk number;
checkk2 number;
maxx number := 0;
nrc number;
pid professors.professor_id%type;
type pidtab is table of professors.professor_id%type;
ptab pidtab := pidtab();
professor_name varchar(50);
exceptie1 exception;
exceptie2 exception;
exceptie3 exception;
```

begin

-- selectez profesorii care predau la o facultate din orașul dat ca parametru

```

select count(*) into checkk
from locations
where city = locat_name;
```

```

if checkk = 0 then
    raise exceptie1;
end if;

select count(professor_id)
into checkk2
from professors p, faculties f, locations l
where p.faculty_id = f.faculty_id
and f.location_id = l.location_id
and l.city = locat_name;

if (checkk2 = 0) then
    raise exceptie2;
end if;

select professor_id
bulk collect into ptab
from professors p, faculties f, locations l
where p.faculty_id = f.faculty_id
and f.location_id = l.location_id
and l.city = locat_name;

if (ptab.last = 0) then
    raise exceptie2;
end if;

for i in ptab.first .. ptab.last loop
    select count(cs.student_id)
    into nrc
    from classes c, classes_students cs
    where c.professor_id = ptab(i)
    and c.class_id = cs.class_id;

    if (nrc > maxx) then
        maxx := nrc;
        pid := ptab(i);
    end if;
end loop;

if maxx = 0 then
    raise exceptie3;
else
    select first_name || ' ' || last_name
    into professor_name
    from professors
    where professor_id = pid;
    DBMS_OUTPUT.PUT_LINE ('Profesorul ' || professor_name || ' este profesorul cu cei mai multi
elevi - ' || maxx);

```



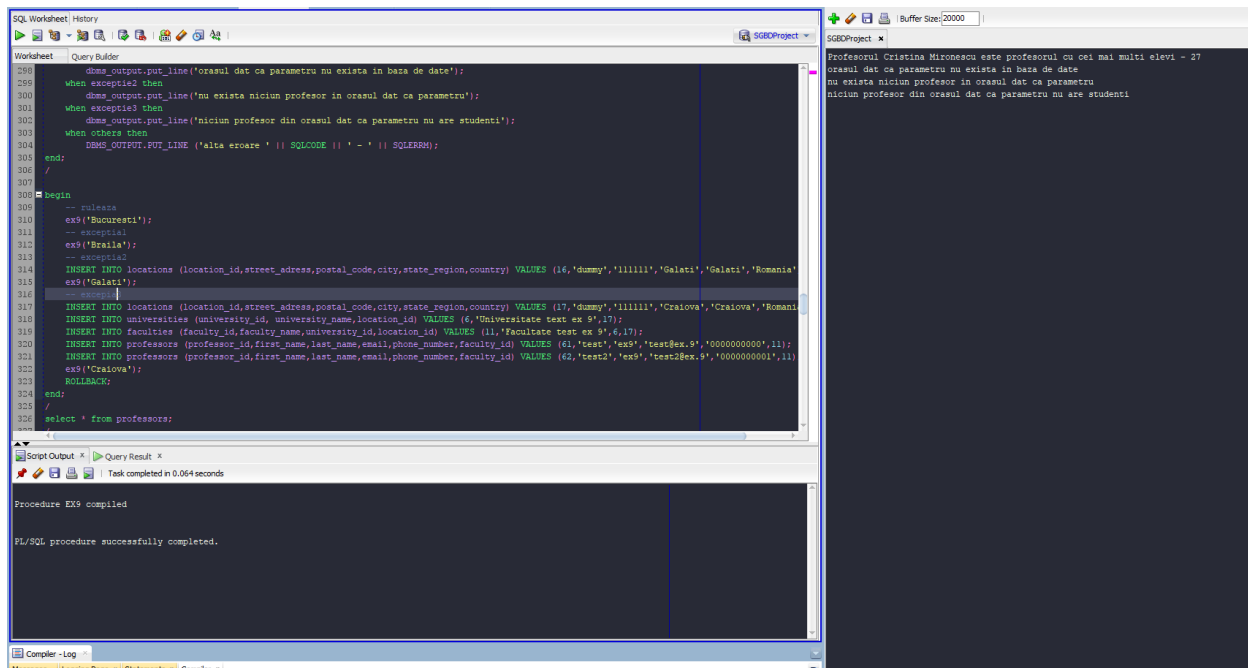
```

end if;

exception
when exceptie1 then
    dbms_output.put_line('orasul dat ca parametru nu exista in baza de date');
when exceptie2 then
    dbms_output.put_line('nu exista niciun profesor in orasul dat ca parametru');
when exceptie3 then
    dbms_output.put_line('niciun profesor din orasul dat ca parametru nu are studenti');
when others then
    DBMS_OUTPUT.PUT_LINE ('alta eroare ' || SQLCODE || ' - ' || SQLERRM);
end;
/

begin
    -- ruleaza
    ex9('Bucuresti');
    -- exceptia1
    ex9('Braila');
    -- exceptia2
    INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES
(16,'dummy','111111','Galati','Galati','Romania'); --16
    ex9('Galati');
    -- exceptia3
    INSERT INTO locations (location_id,street_adress,postal_code,city,state_region,country) VALUES
(17,'dummy','111111','Craiova','Craiova','Romania'); --17
    INSERT INTO universities (university_id, university_name,location_id) VALUES (6,'Universitate text ex
9',17);
    INSERT INTO faculties (faculty_id,faculty_name,university_id,location_id) VALUES (11,'Facultate test
ex 9',6,17);
    INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(61,'test','ex9','test@ex.9','0000000000',11);
    INSERT INTO professors (professor_id,first_name,last_name,email,phone_number,faculty_id) VALUES
(62,'test2','ex9','test2@ex.9','0000000001',11);
    ex9('Craiova');
    ROLLBACK;
end;
/

```



10. Definiți un trigger de tip LMD la nivel de comandă. Declanșați trigger-ul.

-- ex10. Definiți un trigger de tip LMD la nivel de comandă? care să nu permită
 -- de noi studenți decât pe perioada verii. Dacă se pot efectua comenzi afișează
 -- mesaje diferite pentru inserare, actualizare, ștergere

/

create or replace trigger trig10

before insert or update or delete on students

begin

IF INSERTING THEN

if (TO_CHAR(SYSDATE, 'MM') < '06' or TO_CHAR(SYSDATE, 'MM') > '08') THEN
 raise_application_error(-20002, 'Nu se pot insera copii în afara perioadei de vară!');

else

DBMS_OUTPUT.PUT_LINE('Inserting students...');

end if;

END IF;

IF UPDATING THEN

DBMS_OUTPUT.PUT_LINE('Updating student's information...');

END IF;

IF DELETING THEN

DBMS_OUTPUT.PUT_LINE('Deleting students...');

END IF;

end;

/

INSERT INTO students

(student_id, first_name, last_name, email, phone_number, faculty_id)
 VALUES (seq_student.nextval, 'Florin', 'Parizer',
 'florin.parizer@s.lit.uaic.ro', 0711337516, 4);

/

update students

```

set last_name = 'Ionita'
where student_id = 1;
/
rollback;
/

```

The screenshot shows the SQL Developer interface. The main window displays a PL/SQL script for creating and testing a trigger. The script includes a trigger named 'trig10' that fires before insert or update on the 'students' table. It contains logic to check the date and raise an error if the insert is outside the summer period. The script also includes an insert statement for a student and an update statement for the student's last name. The 'Script Output' window shows the execution results, including the insertion of the student and the update of the last name, followed by an error report indicating a failure during the execution of the trigger 'GRCU.TRIG10'.

```

SQL Worksheet: History
Worksheet: Query Builder
329 -- message pentru persoane fizice care se pot inscrie la cursuri
330 -- mesaj diferite pentru inscriere, actualizare, stergere
331 /
332 create or replace trigger trig10
333 before insert or update or delete on students
334 begin
335     if inserting then
336         if (TO_CHAR(SYSDATE, 'MM') < '06' or TO_CHAR(SYSDATE, 'MM') > '08') then
337             raise_application_error(-20002, 'Nu se pot inscrie copii in afara perioadei de vara!');
338         else
339             DBMS_OUTPUT.PUT_LINE('Inserting students...');
340         end if;
341     end if;
342     if updating then
343         DBMS_OUTPUT.PUT_LINE('Updating student's information...');
344     end if;
345     if deleting then
346         DBMS_OUTPUT.PUT_LINE('Deleting students...');
347     end if;
348 end;
349 /
350 insert into students
351 (student_id, first_name, last_name, email, phone_number, faculty_id)
352 values (seq_student.nextval, 'Florin', 'Parizer',
353        'florin.parizer@lit.usic.ro', 0711337516, 4);
354 /
355 update students
356 set last_name = 'Ionita'
357 where student_id = 1;
358 /

```

Script Output: x Query Result: x

```

Task completed in 0.033 seconds
(student_id,first_name,last_name,email,phone_number,faculty_id)
VALUES (seq_student.nextval,'Florin','Parizer',
'florin.parizer@lit.usic.ro',0711337516,4)
Error report -
ORA-20002: Nu se pot inscrie copii in afara perioadei de vara!
ORA-06512 at "GRCU.TRIG10", line 4
ORA-04081: error during execution of trigger "GRCU.TRIG10"

1 row updated.

```

11. Definiți un trigger de tip LMD la nivel de linie. Declanșați trigger-ul.

-- ex11.

-- Definiți un trigger de tip LMD la nivel de comanda care sa nu permita
-- atasarea unui student la un curs daca studentul si profesorul care
-- predă cursul nu fac parte din aceeași facultate

/

create or replace trigger trig11

before insert or update on classes_students
for each row

declare

student_faculty_id students.faculty_id%type;
professor_faculty_id professors.faculty_id%type;

begin

select s.faculty_id
into student_faculty_id
from students s
where s.student_id = :new.student_id;

select p.faculty_id
into professor_faculty_id
from professors p, classes c
where c.professor_id = p.professor_id
and :new.class_id = c.class_id;

The screenshot displays the SQL Developer environment. The main window shows a PL/SQL script in the 'Query Builder' tab. The script is as follows:

```

382 from professors p, classes c
383 where c.professor_id = p.professor_id
384 and :new.class_id = c.class_id;
385
386 if (student_faculty_id != professor_faculty_id) then
387     RAISE_APPLICATION_ERROR(-20001, 'Profesorul cursului si studentul nu fac parte din aceeași facultate');
388 end if;
389 end;
390 /
391 drop trigger trig11;
392 /
393 select * from students order by 1;
394 select * from classes_students where student_id = 1;
395
396 update classes_students
397 set class_id = 1
398 where student_id = 1 and class_id = 21;
399
400 select c.class_id, p.faculty_id from professors p, classes c where c.professor_id = p.professor_id and class_id = 19;
401 select c.class_id, p.faculty_id from professors p, classes c where c.professor_id = p.professor_id and faculty_id = 6;
402 rollback;
403
404 -- rezerva ex11.
405 -- Definiți un trigger de tip LMD la nivel de linie care elimina studentul
406 -- de la cursuri atunci când își schimbă facultatea
407 /
408 create or replace procedure remove_11(s_id students.student_id%type)
409 as
410 begin
411     delete

```

Below the script, the 'Script Output' and 'Query Result' tabs are visible. The 'Script Output' tab shows the following error message:

```

Error starting at line : 396 in command -
update classes_students
  set class_id = 1
  where student_id = 1 and class_id = 21
Error report -
ORA-20001: Profesorul cursului si studentul nu fac parte din aceeași facultate
ORA-06512: at "GRCU.TRIG11", line 17
ORA-04088: error during execution of trigger 'GRCU.TRIG11'

```

```

/
CREATE TABLE audit12
(utilizator VARCHAR2(30),
nume_bd VARCHAR2(50),
eveniment VARCHAR2(20),
nume_object VARCHAR2(30),
data DATE);
/
CREATE OR REPLACE TRIGGER trig12
AFTER CREATE OR DROP OR ALTER ON SCHEMA

```

```

BEGIN
INSERT INTO audit12
VALUES (SYS.LOGIN_USER, SYS.DATABASE_NAME, SYS.SYSEVENT,
SYS.DICTIONARY_OBJ_NAME, SYSDATE);
END;
/
CREATE INDEX ind12 ON students(first_name);
DROP INDEX ind12;
SELECT * FROM audit12;
DROP TRIGGER trig12;
/

```

The screenshot shows the Oracle SQL Developer interface. The top pane is the 'Script Builder' window, which contains the following SQL script:

```

-- Definiți un trigger de tip LDD. ex12
/
CREATE TABLE audit12
(
  utilizator VARCHAR2(30),
  nume_bd VARCHAR2(50),
  eveniment VARCHAR2(20),
  nume_obiect VARCHAR2(30),
  data DATE
);
/
CREATE OR REPLACE TRIGGER trig12
AFTER CREATE OR DROP OR ALTER ON SCHEMA
BEGIN
  INSERT INTO audit12
  VALUES (SYS.LOGIN_USER, SYS.DATABASE_NAME, SYS.SYSEVENT,
  SYS.DICTIONARY_OBJ_NAME, SYSDATE);
END;
/
CREATE INDEX ind12 ON students(first_name);
DROP INDEX ind12;
SELECT * FROM audit12;
DROP TRIGGER trig12;
/

```

The bottom pane is the 'Query Result' window, which displays the results of the 'SELECT * FROM audit12;' query. The results are as follows:

UTILIZATOR	NUME_BD	EVENIMENT	NUME_OBIECT	DATA
GRECU	XE	CREATE	EX9	08-JAN-21
GRECU	XE	CREATE	EX9	08-JAN-21
GRECU	XE	CREATE	TRIG10	08-JAN-21
GRECU	XE	CREATE	TRIG10	08-JAN-21
GRECU	XE	CREATE	TRIG10	08-JAN-21
GRECU	XE	CREATE	TRIG10	08-JAN-21
GRECU	XE	CREATE	TRIG11	08-JAN-21
GRECU	XE	CREATE	IND12	08-JAN-21
GRECU	XE	DROP	IND12	08-JAN-21

13. Definiți un pachet care să conțină toate obiectele definite în cadrul proiectului.

```

create or replace package ex13 as
type tclasses is table of VARCHAR2(70);
function ex6(ffaculty_id faculties.faculty_id%type)return tclasses;
function ex7(locat_name locations.city%type)return varchar2;
function ex8(locat_name locations.city%type)return varchar;
  procedure ex9 (locat_name locations.city%type);
procedure remove_11(s_id students.student_id%type);
end ex13;
/
-----

```

/

create or replace package body ex13 as

```
function ex6(ffaculty_id faculties.faculty_id%type)
return tclasses
```

is

```
    returntable tclasses := tclasses();
```

begin

```
    if ffaculty_id is null then
```

```
        return returntable;
```

```
    end if;
```

```
    select c.class_name
```

```
    bulk collect into returntable
```

```
    from classes c, professors p, faculties f
```

```
    where c.professor_id = p.professor_id
```

```
    and p.faculty_id = f.faculty_id
```

```
    and f.faculty_id = ffaculty_id;
```

```
    return returntable;
```

end;

```
function ex7(locat_name locations.city%type)
```

```
return varchar2
```

is

```
    maxx number := 0;
```

```
    rename faculties.faculty_name%type;
```

```
    currentnr number;
```

```
    f_id faculties.faculty_id%type;
```

```
    f_name faculties.faculty_name%type;
```

```
    exceptie1 exception;
```

```
    cursor c is
```

```
        select faculty_id, faculty_name
```

```
        from locations l, faculties f
```

```
        where l.location_id = f.faculty_id
```

```
        and l.city = locat_name;
```

begin

```
    open c;
```

```
    loop
```

```
        fetch c into f_id, f_name;
```

```
        exit when c%notfound;
```

```
        select count(student_id)
```

```
        into currentnr
```

```
        from students
```

```
        where faculty_id = f_id;
```

```
        if (currentnr > maxx) then
```

```
            maxx := currentnr;
```

```
            rename := f_name;
```

```
            --dbms_output.put_line(f_name);
```

```
        end if;
```

```
    end loop;
```

```
    if (maxx = 0) then
```

```
        raise exceptie1;
```

```
    else
```

```

        return retname;
    end if;
exception
    when exceptie1 then
        dbms_output.put_line('Orasul dat ca parametru nu exista in baza de date');
        return null;
    when no_data_found then
        DBMS_OUTPUT.PUT_LINE (' no data found: ' || SQLCODE || ' - ' || SQLERRM);
    when others then
        DBMS_OUTPUT.PUT_LINE ('alta eroare ' || SQLCODE || ' - ' || SQLERRM);
end;
```

```

function ex8(locat_name locations.city%type)
return varchar
IS
    type uids_type is table of universities.university_id%type;
    uids uids_type := uids_type();
```

```

    uname universities.university_name%type;
    checkk number;
    checkk2 number;
    maxx number := 0;
    nrc number;
    uid universities.university_id%type;
    exceptie1 exception;
    exceptie2 exception;
    exceptie3 exception;
```

```

BEGIN
    select count(*) into checkk
    from locations
    where city = locat_name;
```

```

    if checkk = 0 then
        raise exceptie1;
    end if;
```

```

    select count(university_id)
    into checkk2
    from universities u, locations l
    where u.location_id = l.location_id
    and l.city = locat_name;
```

```

    if (checkk2 = 0) then
        raise exceptie2;
    end if;
```

```

    select university_id
    bulk collect into uids
    from universities u, locations l
    where u.location_id = l.location_id
    and l.city = locat_name;
```

```

    for i in uids.first .. uids.last loop
        select count(student_id)
        into nrc
        from faculties f, students s
```

```

        where f.university_id = uids(i)
        and f.faculty_id = s.faculty_id;

        if (nrc > maxx) then
            maxx := nrc;
            uid := uids(i);
        end if;
    end loop;

    if maxx = 0 then
        raise exceptie3;
    else
        select university_name
        into uname
        from universities
        where university_id = uid;

        return uname;
    end if;

exception
    when exceptie1 then
        dbms_output.put_line('orasul dat ca parametru nu exista in baza de date');
        return null;
    when exceptie2 then
        dbms_output.put_line('nu exista nicio universitate in orasul dat ca parametru');
        return null;
    when exceptie3 then
        dbms_output.put_line('nicio universitate din orasul dat ca parametru nu are studenti');
        return null;
    when others then
        DBMS_OUTPUT.PUT_LINE ('alta eroare ' || SQLCODE || ' - ' || SQLERRM);
        return null;
end ex8;

procedure ex9 (locat_name locations.city%type)
is
    checkk number;
    checkk2 number;
    maxx number := 0;
    nrc number;
    pid professors.professor_id%type;
    type pidtab is table of professors.professor_id%type;
    ptab pidtab := pidtab();
    professor_name varchar(50);
    exceptie1 exception;
    exceptie2 exception;
    exceptie3 exception;
begin
    -- selectez profesorii care predau la o facultate din orasul dat ca parametru

    select count(*) into checkk
    from locations
    where city = locat_name;

    if checkk = 0 then

```



```

        raise exceptie1;
    end if;

    select count(professor_id)
    into checkk2
    from professors p, faculties f, locations l
    where p.faculty_id = f.faculty_id
    and f.location_id = l.location_id
    and l.city = locat_name;

    if (checkk2 = 0) then
        raise exceptie2;
    end if;

    select professor_id
    bulk collect into ptab
    from professors p, faculties f, locations l
    where p.faculty_id = f.faculty_id
    and f.location_id = l.location_id
    and l.city = locat_name;

    if (ptab.last = 0) then
        raise exceptie2;
    end if;

    for i in ptab.first .. ptab.last loop
        select count(cs.student_id)
        into nrc
        from classes c, classes_students cs
        where c.professor_id = ptab(i)
        and c.class_id = cs.class_id;

        if (nrc > maxx) then
            maxx := nrc;
            pid := ptab(i);
        end if;
    end loop;

    if maxx = 0 then
        raise exceptie3;
    else
        select first_name || ' ' || last_name
        into professor_name
        from professors
        where professor_id = pid;
        DBMS_OUTPUT.PUT_LINE ('Profesorul ' || professor_name || ' este profesorul cu cei mai multi elevi - ' || maxx);

    end if;

exception
    when exceptie1 then
        dbms_output.put_line('orasul dat ca parametru nu exista in baza de date');
    when exceptie2 then
        dbms_output.put_line('nu exista niciun profesor in orasul dat ca parametru');
    when exceptie3 then
        dbms_output.put_line('niciun profesor din orasul dat ca parametru nu are studenti');

```

```

        when others then
            DBMS_OUTPUT.PUT_LINE ('alta eroare ' || SQLCODE || ' - ' || SQLERRM);
        end;

```

```

procedure remove_11(s_id students.student_id%type)
as
begin
    delete
    from classes_students
    where student_id = s_id;
end;

```

end ex13;

```

/
declare
    printtable ex13.tclasses := ex13.tclasses();
    ffaculty_id number := 1;
    text varchar2(60);
begin
    printtable := ex13.ex6(ffaculty_id);
    for i in printtable.first .. printtable.last loop
        dbms_output.put_line(printtable(i));
    end loop;
    text := ex13.ex7('Bucuresti');
    dbms_output.put_line(text);
    dbms_output.put_line(ex13.ex8('Bucuresti'));
    ex13.ex9('Bucuresti');
end;

```

The screenshot displays the SQL Developer environment. The main window shows a PL/SQL script with the following content:

```

246      from classes_students
247      where student_id = s_id;
248    end;
249  end ex13;
250
251  /
252  declare
253      printtable ex13.tclasses := ex13.tclasses();
254      ffaculty_id number := 1;
255      text varchar2(60);
256  begin
257      printtable := ex13.ex6(ffaculty_id);
258      for i in printtable.first .. printtable.last loop
259          dbms_output.put_line(printtable(i));
260      end loop;
261      text := ex13.ex7('Bucuresti');
262      dbms_output.put_line(text);
263      dbms_output.put_line(ex13.ex8('Bucuresti'));
264      ex13.ex9('Bucuresti');
265  end;

```

The Script Output window at the bottom shows the following messages:

```

Package Body EX13 compiled
PL/SQL procedure successfully completed.

```

The right-hand pane displays a list of database objects, including:

- Contabilitate bancara
- Contabilitate financiara
- Marketing
- Gestiunea financiara a firmei
- Gestiune bancara
- Buget si trezorerie publica
- Facultatea de litere
- Universitatea Politehnica din Bucuresti
- Profesorul Cristina Mironeanu este profesorul cu cei mai multi elevi - 27