CREATE USER 'anonimo'@'localhost' IDENTIFIED BY '12345'; GRANT INSERT, DELETE, SELECT, UPDATE, EXECUTE ON *.* TO 'anonimo'@'localhost'; FLUSH PRIVILEGES;

CREATE TABLE Course(id_course int AUTO_INCREMENT, NRC varchar(15), period varchar(25), name varchar(75), PRIMARY KEY (id_course));

CREATE TABLE Person(id_person int AUTO_INCREMENT, name varchar(75), phoneNumber varchar(15), email varchar(65), id_course int, activity_state enum('Active', 'Inactive'), PRIMARY KEY(id_person), FOREIGN KEY(id_course) REFERENCES Course(id_course));

CREATE TABLE Coordinator(id_person int, cubicle int, staff_number varchar(25), PRIMARY KEY(id_person), FOREIGN KEY(id_person) REFERENCES Person(id_person) ON DELETE CASCADE);

CREATE TABLE Professor(id_person int, cubicle int, staff_number varchar(25), PRIMARY KEY(id_person), FOREIGN KEY(id_person) REFERENCES Person(id_person));

CREATE TABLE Company(id_company int AUTO_INCREMENT, name varchar(75), address varchar(75), email varchar(65), state varchar(45), phoneNumber varchar(15), direct_users int, indirect_users int, sector enum('Primary', 'Secondary', 'Tertiary'), city varchar(65), id_coordinator int, id_course int, PRIMARY KEY(id_company), FOREIGN KEY(id_coordinator) REFERENCES Coordinator(id_person), FOREIGN KEY(id_course) REFERENCES Course(id_course));

CREATE TABLE Project(id_project int AUTO_INCREMENT, name varchar(75), duration float, schedule varchar(75), general_purpose text, general_description text, id_company int, charge_Responsable varchar(35), name_Responsable varchar(75), email_Responsable varchar(65), PRIMARY KEY(id_project), FOREIGN KEY(id_company) REFERENCES

Company(id_company));

CREATE TABLE Project_Mediate_Objetives(objetive varchar(65), id_project int, FOREIGN KEY(id_project) REFERENCES Project(id_project) ON DELETE CASCADE);

CREATE TABLE Project_Methodologies (methodology varchar (65), id_project int, FOREIGN KEY (id_project) REFERENCES Project (id_project) ON DELETE CASCADE);

CREATE TABLE Project_Resources(resource varchar(65), id_project int, FOREIGN KEY(id_project) REFERENCES Project(id_project) ON DELETE CASCADE); CREATE TABLE Project_Responsabilities(responsability varchar(65), id_project int, FOREIGN KEY(id_project) REFERENCES Project(id_project) ON DELETE CASCADE):

CREATE TABLE Project_Activities(activity varchar(65), id_project int, FOREIGN KEY(id_project) REFERENCES Project(id_project) ON DELETE CASCADE); CREATE TABLE Project_Immediate_Objetives(objetive varchar(65), id_project int, FOREIGN KEY(id_project) REFERENCES Project(id_project) ON DELETE CASCADE);

CREATE TABLE Practitioner(id_person int, enrollment varchar(35), id_project int, id_professor int, PRIMARY KEY(id_person), FOREIGN KEY(id_person) REFERENCES Person(id_person), FOREIGN KEY(id_project) REFERENCES Project(id_project), FOREIGN KEY(id_professor) REFERENCES Professor(id_person));

CREATE TABLE Practitioner_Selected_Projects(selected_project int ,id_person int, FOREIGN KEY(selected_project) REFERENCES Project(id_project), FOREIGN KEY(id_person) REFERENCES Practitioner(id_person));

CREATE TABLE Activity(id_activity int AUTO_INCREMENT, name varchar(75), description text, deadline datetime, id_professor int, PRIMARY KEY(id_activity), FOREIGN KEY(id_professor) REFERENCES Professor(id_person));

CREATE TABLE Delivery(id_delivery int AUTO_INCREMENT, id_activity int , id_practitioner int, observation text ,score float, file_path varchar(230), PRIMARY KEY(id_delivery), FOREIGN KEY(id_activity) REFERENCES Activity(id_activity), FOREIGN KEY(id_practitioner) REFERENCES Practitioner(id_person) ON DELETE CASCADE);

CREATE TABLE AccessAccount(id_user INT, email varchar(75), password varchar(75), password_recovery_code varchar(15), PRIMARY KEY(id_user), FOREIGN KEY(id_user) REFERENCES Person(id_person) ON DELETE CASCADE); CREATE TABLE Host(mac_address varchar(75), attempts INT);

CREATE TABLE Administrator(id_person INT, , FOREIGN KEY(id_person) REFERENCES Person(id_person));

```
DELIMITER $$
CREATE PROCEDURE sendAddress(dir varchar(64))
DECLARE EXIT HANDLER FOR SQLEXCEPTION
BEGIN
SHOW ERRORS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
DECLARE EXIT HANDLER FOR SQLWARNING
BEGIN
SHOW WARNINGS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
DECLARE CONTINUE HANDLER FOR 1329
BEGIN
 set @idMac = NULL;
END;
START TRANSACTION;
SELECT SUM(attempts) FROM Host WHERE mac_address = dir INTO
@numAttempts;
IF @numAttempts > 4 THEN
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Attempts limit reached!';
ELSE
SELECT mac_address FROM Host WHERE mac_address = dir LIMIT 1 INTO
@idMac;
IF @idMac IS NOT NULL THEN
    UPDATE Host set attempts = attempts + 1 WHERE mac_address = dir;
ELSE
    INSERT INTO Host(mac_address, attempts) VALUES(dir, 1);
END IF;
END IF;
COMMIT;
END $$
DELIMITER;
```

```
CREATE PROCEDURE addProfessor(name_p varchar(75), phone_p varchar(15),
email_p varchar(65), id_cs INT, cubic_c INT, staff_number_c varchar(25))
BEGIN
DECLARE EXIT HANDLER FOR SQLEXCEPTION
BEGIN
SHOW ERRORS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
DECLARE EXIT HANDLER FOR SQLWARNING
BEGIN
SHOW WARNINGS LIMIT 1;
RESIGNAL:
ROLLBACK;
END;
START TRANSACTION;
INSERT INTO Person(name, phoneNumber, email, id_course, activity_state)
VALUES(name_p, phone_p, email_p, id_cs, 1);
SELECT LAST_INSERT_ID() INTO @id_p;
INSERT INTO Professor(id_person, cubicle, staff_number) VALUES(@id_p, cubic_c,
staff_number_c);
INSERT INTO AccessAccount(id_user, email, password) VALUES(@id_p, email_p,
MD5(RAND()));
COMMIT;
END $$
DELIMITER;
DELIMITER $$
CREATE PROCEDURE addCoordinator(name_p varchar(75), phone_p varchar(15),
email_p varchar(65), id_cs INT, cubic_c INT, staff_number_c varchar(25))
BEGIN
DECLARE EXIT HANDLER FOR SQLEXCEPTION
BEGIN
SHOW ERRORS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
DECLARE EXIT HANDLER FOR SQLWARNING
BEGIN
SHOW WARNINGS LIMIT 1;
RESIGNAL:
ROLLBACK;
```

```
END;
START TRANSACTION;
INSERT INTO Person(name, phoneNumber, email, id_course, activity_state)
VALUES(name_p, phone_p, email_p, id_cs, 1);
SELECT LAST_INSERT_ID() INTO @id_p;
INSERT INTO Coordinator(id_person, cubicle, staff_number) VALUES(@id_p,
cubic_c, staff_number_c);
INSERT INTO AccessAccount(id_user, email, password) VALUES(@id_p, email p.
MD5(RAND()));
COMMIT;
END $$
DELIMITER;
DELIMITER $$
CREATE PROCEDURE addPractitioner(name_p varchar(75), phone_p varchar(15),
email_p varchar(65), id_cs INT, enrollment_p varchar(35))
BEGIN
DECLARE EXIT HANDLER FOR SQLEXCEPTION
BEGIN
SHOW ERRORS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
DECLARE EXIT HANDLER FOR SQLWARNING
BEGIN
SHOW WARNINGS LIMIT 1;
RESIGNAL:
ROLLBACK;
END;
START TRANSACTION;
INSERT INTO Person(name, phoneNumber, email, id_course, activity_state)
VALUES(name_p, phone_p, email_p, id_cs, 1);
SELECT LAST_INSERT_ID() INTO @id_p;
INSERT INTO Practitioner(id_person, enrollment, id_project, id_professor)
VALUES(@id_p, enrollment_p, null, null);
INSERT INTO AccessAccount(id_user, email, password) VALUES(@id_p, email_p,
MD5(RAND()));
COMMIT;
END $$
DELIMITER;
```

```
DELIMITER $$
CREATE PROCEDURE assignProject(person INT, project INT, OUT idProject INT)
DECLARE EXIT HANDLER FOR SQLEXCEPTION
BEGIN
SHOW ERRORS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
DECLARE EXIT HANDLER FOR SQLWARNING
BEGIN
SHOW WARNINGS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
START TRANSACTION;
SELECT COUNT(id_project) INTO @count FROM Practitioner WHERE id_project =
project;
IF @count < 3 THEN
    UPDATE Practitioner SET id_project = project WHERE id_person = person;
    SET idProject = project;
ELSE
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Table size limit reached';
END IF;
COMMIT;
END $$
DELIMITER;
DELIMITER $$
CREATE PROCEDURE addDelivery(activity int, practitioner int, filePath_to
varchar(230), OUT last_id INT)
BEGIN
DECLARE name_act INT;
SELECT NOW() INTO @now;
SELECT deadline INTO @deadline_activity FROM Activity WHERE id_activity =
activity;
IF @now < @deadline activity THEN
    SELECT id_delivery INTO @already_delivered FROM Delivery WHERE
```

```
id_practitioner = practitioner;
ELSE
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Activitys deadline is over';
END IF;
IF @already_delivered IS NULL THEN
    INSERT INTO Delivery (id_activity, id_practitioner, observation, score,
file_path) VALUES(activity, practitioner, null, null, filePath_to);
    SELECT LAST_INSERT_ID() INTO @last_delivery;
    SET last_id = @last_delivery;
ELSE
    UPDATE Delivery set file_path = filePath_to, score = null, observation = null
WHERE id practitioner = practitioner;
    SET last id = @already delivered;
END IF;
END $$
DELIMITER;
DELIMITER $$
CREATE PROCEDURE selectProject(person INT, project INT)
DECLARE EXIT HANDLER FOR SQLEXCEPTION
BEGIN
SHOW ERRORS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
DECLARE EXIT HANDLER FOR SQLWARNING
BEGIN
SHOW WARNINGS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
START TRANSACTION;
SELECT COUNT(id_person) INTO @countSelected FROM
Practitioner_Selected_Projects WHERE id_person = person;
IF @countSelected < 3 THEN
    INSERT INTO Practitioner_Selected_Projects(selected_project, id_person)
VALUES(project, person);
ELSE
```

```
SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = 'Table size limit reached';
END IF;
COMMIT;
END $$
DELIMITER;
DELIMITER $$
CREATE PROCEDURE removeProject(id_remove INT, OUT idRemove INT)
BEGIN
DECLARE EXIT HANDLER FOR SQLEXCEPTION
BEGIN
SHOW ERRORS LIMIT 1;
RESIGNAL:
ROLLBACK;
END;
DECLARE EXIT HANDLER FOR SQLWARNING
BEGIN
SHOW WARNINGS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
START TRANSACTION;
UPDATE Practitioner SET id_project = NULL WHERE id_project = id_remove;
DELETE FROM Project WHERE id_project = id_remove;
SET idRemove = id remove;
COMMIT;
END $$
DELIMITER;
DELIMITER $$
CREATE PROCEDURE removeMultivaluedAttributesProject(id INT)
BEGIN
DECLARE EXIT HANDLER FOR SQLEXCEPTION
BEGIN
SHOW ERRORS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
DECLARE EXIT HANDLER FOR SQLWARNING
BEGIN
```

```
SHOW WARNINGS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
START TRANSACTION:
DELETE FROM Project Activities WHERE id project = id;
DELETE FROM Project_Responsabilities WHERE id_project = id;
DELETE FROM Project_Mediate_Objetives WHERE id_project = id;
DELETE FROM Project_Methodologies WHERE id_project = id;
DELETE FROM Project_Resources WHERE id_project = id;
DELETE FROM Project_Immediate_Objetives WHERE id_project = id;
COMMIT;
END $$
DELIMITER;
CREATE TRIGGER director_update_on_insert AFTER INSERT ON Course FOR EACH
ROW UPDATE Person set id_course = (SELECT max(id_course) FROM Course)
WHERE id_person = 1;
CREATE TRIGGER director_update_on_delete BEFORE DELETE ON Course FOR
EACH ROW UPDATE Person set id_course = (SELECT max(id_course) FROM
Course) WHERE id_person = 1;
SET GLOBAL event scheduler = ON;
DELIMITER //
CREATE EVENT reset attempts
ON SCHEDULE EVERY 10 MINUTE
ON COMPLETION PRESERVE
DO
BEGIN
UPDATE Host SET attempts = 0;
UPDATE AccessAccount SET password_recovery_code = null;
END //
DELIMITER;
```