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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, 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_Objctives(objective 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_Responsibilities(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_Objctives(objective varchar(65), id_project int,
FOREIGN KEY(id_project) REFERENCES Project(id_project) ON DELETE
CASCADE);

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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, filePath 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), PRIMARY KEY(id_user), FOREIGN KEY(id_user) REFERENCES
Person(id_person));

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CREATE VIEW view_project AS SELECT id_project, name ,duration, schedule,
id_company, charge_responsable, name_responsable, email_responsable from
Project;

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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;

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INSERT INTO Person(name, phoneNumber, email, id_course) VALUES(name_p,  
phone_p, email_p, id_cs);  
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, username, password) VALUES(@id_p,  
email_p, MD5(RAND()));  
COMMIT;  
END $$  
DELIMITER ;
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DELIMITER $$  
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) VALUES(name_p,  
phone_p, email_p, id_cs);  
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, username, password) VALUES(@id_p,  
email_p, MD5(RAND()));  
COMMIT;  
END $$  
DELIMITER ;
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DELIMITER $$
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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) VALUES(name_p,
phone_p, email_p, id_cs);
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, username, password) VALUES(@id_p,
email_p, MD5(RAND()));
COMMIT;
END $$
DELIMITER ;

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DELIMITER $$
CREATE PROCEDURE addDelivery(activity int, practitioner int, filePath_to
varchar(230))
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
INSERT INTO Delivery(id_activity, id_practitioner, observation, score, filePath)
VALUES(activity, practitioner, null, null, filePath_to);
ELSE
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Activitys deadline is over';
END IF;

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END $$  
DELIMITER ;
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DELIMITER $$  
CREATE PROCEDURE assignProject(person INT, project INT, OUT idProject 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;  
    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 $$  
DELIMITER ;
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DELIMITER $$  
CREATE PROCEDURE selectProject(person INT, project INT)  
BEGIN  
    DECLARE EXIT HANDLER FOR SQLEXCEPTION  
    BEGIN  
        SHOW ERRORS LIMIT 1;  
        RESIGNAL;  
        ROLLBACK;  
    END;
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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 ;

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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 ;

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DELIMITER $$
CREATE PROCEDURE removeMultivaluedAttributesProject(id INT)
BEGIN
DECLARE EXIT HANDLER FOR SQLEXCEPTION
BEGIN
SHOW ERRORS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
DECLARE EXIT HANDLER FOR SQLWARNING
BEGIN
SHOW WARNINGS LIMIT 1;
RESIGNAL;
ROLLBACK;
END;
START TRANSACTION;
DELETE FROM Project_Activities WHERE id_project = id;
DELETE FROM Project_Responsabilities WHERE id_project = id;
DELETE FROM Project_Mediate_Objctives WHERE id_project = id;
DELETE FROM Project_Methodologies WHERE id_project = id;
DELETE FROM Project_Resources WHERE id_project = id;
DELETE FROM Project_Immediate_Objctives WHERE id_project = id;
COMMIT;
END $$
DELIMITER ;
```