|  |  |
| --- | --- |
| Julie Sweany | |
|  | Your Answers |
| **1** | Transaction with ROLLBACK |
| Screen shot of the Output window from the run of the stored procedure showing the error. Be sure to widen it to show the entire error |
| Text of your CREATE PROCEDURE  -- 13.1 - Julie Sweany  -- Create a transaction to fix a mistake in the database by deleting a student record and adding a faculty record.  -- The transaction will fail and rollback, displaying the technical error message.  USE College;  DROP PROCEDURE IF EXISTS Fix\_Egghead1 ;  DELIMITER $$  USE College$$  CREATE PROCEDURE Fix\_Egghead1()  BEGIN  -- Setup error handing  DECLARE errorOccurred INT DEFAULT FALSE;  DECLARE errorMessage VARCHAR(255);      -- Runs if an error occurs  DECLARE CONTINUE HANDLER FOR SQLEXCEPTION  BEGIN  SET errorOccurred = TRUE;  GET DIAGNOSTICS CONDITION 1  errorMessage = MESSAGE\_TEXT;  END ;      START TRANSACTION;    -- Add the faculty record  INSERT INTO Faculty (FirstName, LastName, EMail, Salary, HireDate, DepartmentID)  VALUES ('Eduardo', 'Egghead', 'EduardoEgghead@college.edu', 115000, '2018-04-02', 1);  -- Delete the student record  DELETE FROM Student  WHERE  ID = 78;      IF errorOccurred = TRUE THEN  ROLLBACK;  SELECT CONCAT('The changes failed: ', errorMessage) AS Results;  ELSE  COMMIT;  SELECT 'The changes were made successfully.' AS Results;  END IF;    END  $$  DELIMITER ;  CALL Fix\_Egghead1(); |
| **2** | Transaction with COMMIT |
| Screen shot of the Output window from the run of the stored procedure showing the error. |
| Text of your CREATE PROCEDURE  -- 13.2 - Julie Sweany  -- Create a transaction to fix a mistake in the database by deleting a student record and adding a faculty record.  -- The transaction will also include a statement to delete rows in the registration table, which should allow the transaction to succeed and commit.  USE College;  DROP PROCEDURE IF EXISTS Fix\_Egghead2 ;  DELIMITER $$  USE College$$  CREATE PROCEDURE Fix\_Egghead2()  BEGIN  -- Setup error handing  DECLARE errorOccurred INT DEFAULT FALSE;  DECLARE errorMessage VARCHAR(255);      -- Runs if an error occurs  DECLARE CONTINUE HANDLER FOR SQLEXCEPTION  BEGIN  SET errorOccurred = TRUE;  GET DIAGNOSTICS CONDITION 1  errorMessage = MESSAGE\_TEXT;  END ;      START TRANSACTION;    -- Delete the registration record(s) for Egghead  DELETE FROM Registration  WHERE  StudentID = 78;    -- Add the faculty record  INSERT INTO Faculty (FirstName, LastName, EMail, Salary, HireDate, DepartmentID)  VALUES ('Eduardo', 'Egghead', 'EduardoEgghead@college.edu', 115000, '2018-04-02', 1);  -- Delete the student record  DELETE FROM Student  WHERE  ID = 78;      IF errorOccurred = TRUE THEN  ROLLBACK;  SELECT CONCAT('The changes failed: ', errorMessage) AS Results;  ELSE  COMMIT;  SELECT 'The chages were made successfully.' AS Results;  END IF;    END  $$  DELIMITER ;  CALL Fix\_Egghead2(); |