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(;).

ROLLBACK command is semicolon

SQL Cheat Sheet: Views, Stored Procedures and Transactions

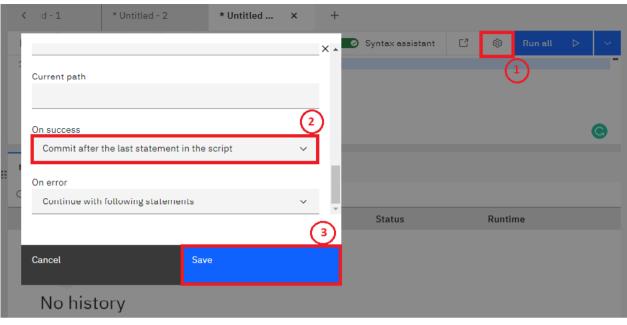
Views

Topic		Syntax	Description	Example
Create View	CREATE VIEW view_name AS SE table_name WHERE condition;	LECT column1, column2, FROM	A CREATE VIEW is an alternative way of representing data that exists in one or more tables.	CREATE VIEW EMPSALARY AS SELECT EMP_ID, F_NAME, L_NAME, B_DATE, SEX, SALARY FROM EMPLOYEES;
Update a View	CREATE OR REPLACE VIEW view_name AS SELECT column1, column2, FROM table_name WHERE condition;		The CREATE OR REPLACE VIEW command updates a view.	CREATE OR REPLACE VIEW EMPSALARY AS SELECT EMP_ID, F_NAME, L_NAME, B_DATE, SEX, JOB_TITLE, MIN_SALARY, MAX_SALARY FROM EMPLOYEES, JOBS WHERE EMPLOYEES.JOB_ID = JOBS.JOB_IDENT;
Drop a View	DROP VIEW view_name;		Use the DROP VIEW statement to remove a view from the database.	DROP VIEW EMPSALARY;
Stored Procedures in IBM Db2 using SQL				
Stored Procedures				#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL
	#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE NAME		LANGUAGE SQL READS SQL DATA	
	LANGUAGE	LANGUAGE BEGIN	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.	DYNAMIC RESULT SETS 1 BEGIN
	BEGIN END		The default terminator for a stored procedure is semicolon(;). To set a different terminator we use SET TERMINATOR clause followed by the terminator such as '@'.	DECLARE C1 CURSOR WITH RETURN FOR
	@ END			SELECT * FROM PETSALE;
				OPEN C1;
				END a
Stored Procedures in MySQL using phpMyAdmin				
Stored Procedures	DELIMITER //			DELIMITER //
	CREATE PROCEDURE PROCEDURE_	NAME	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again. The default terminator for a stored procedure is semicolon (;). To set a different terminator we use DELIMITER clause followed by the terminator such as \$\$ or //.	CREATE PROCEDURE RETRIEVE_ALL()
	BEGIN			BEGIN
	END //			SELECT * FROM PETSALE;
	DELIMITER;			END //
				DELIMITER;
Transactions with Db2				
		A COMMIT command is used to persist the	CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20),	Salary INT, Age INT);
Commit COMMI command		changes in the database.	INSERT INTO employee(ID, Name, City, Salary, Age) VALUES(1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary', 'Bangalor', 82000, 29);	
	The default terminator for a COMMIT command is semicolon (;).		SELECT *FROM employee; COMMIT;	
Rollback ROLLI command	,	A ROLLBACK command is used to rollback the transactions which are not saved in	As auto-commit is enabled by default, all transactions will be rollback works.	be committed. We need to disable this option to see how
	the database. The default terminator for a		For db2, we have to disable auto-commit manually. Click the gear icon located on the right side of the SQL Assistant window. Next, select the "On Success" drop-down and choose "commit after the last statement in the script" Remember to save your changes!	

save your changes!

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INSERT INTO employee VALUES (3, 'Swetha Tiwari', 'Kanpur', 38000, 38);
SELECT *FROM employee;
ROLLBACK;
SELECT *FROM employee;

Transactions with MySQL

COMMIT;

Commit command

ROLLBACK;

Rollback command

A $\ensuremath{\mathsf{COMMIT}}$ command is used to persist the changes in the database.

The default terminator for a COMMIT command is semicolon (;).

A ROLLBACK command is used to rollback the transactions which are not saved in the database.

The default terminator for a ROLLBACK command is semicolon (;).

CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20), Salary INT, Age INT);

START TRANSACTION;

INSERT INTO employee(ID, Name, City, Salary, Age) VALUES(1,
'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary',
'Bangalor', 82000, 29);

SELECT *FROM employee;
COMMIT;

As auto-commit is enabled by default, all transactions will be committed. We need to disable this option to see how rollback works. For MySQL use the command "SET autocommit = 0;"

INSERT INTO employee VALUES (3, 'Swetha Tiwari', 'Kanpur',
38000, 38);

SELECT *FROM employee;
ROLLBACK;

SELECT *FROM employee;

Db2 Transactions using Stored Procedure

Commit command -#SET TERMINATOR @

CREATE PROCEDURE PROCEDURE_NAME

A COMMIT command is used to persist the changes in the database.

The default terminator for a COMMIT command is semicolon (;).

--#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA

BEGIN

```
BEGIN
                                                                                                                                                        DECLARE SOLCODE INTEGER DEFAULT 0;
                                                                                                                                                        DECLARE retcode INTEGER DEFAULT 0;
                      COMMIT:
                                                                                                                                                        DECLARE CONTINUE HANDLER FOR SOLEXCEPTION
                                                                                                                                                        SET retcode = SOLCODE;
                      END
                                                                                                                                                        UPDATE BankAccounts
                                                                                                                                                        SET Balance = Balance-200
                                                                                                                                                        WHERE AccountName = 'Rose';
                                                                                                                                                        UPDATE BankAccounts
                                                                                                                                                        SET Balance = Balance-300
                                                                                                                                                        WHERE AccountName = 'Rose';
                                                                                                                                                        IF retcode < 0 THEN
                                                                                                                                                        ROLLBACK WORK;
                                                                                                                                                        ELSE
                                                                                                                                                        COMMIT WORK;
                                                                                                                                                        END IF;
                                                                                                                                                        END
                                                                                                                                                        --#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION ROSE LANGUAGE
                                                                                                                                                        SQL MODIFIES SQL DATA
                                                                                                                                                        BEGIN
                                                                                                                                                        DECLARE SQLCODE INTEGER DEFAULT 0;
                                                                                                                                                        DECLARE retcode INTEGER DEFAULT 0;
                      --#SET TERMINATOR @
                                                                                                                                                        DECLARE CONTINUE HANDLER FOR SQLEXCEPTION
                                                                                                                                                        SET retcode = SQLCODE;
                      CREATE PROCEDURE PROCEDURE NAME
                                                                                                                                                        UPDATE BankAccounts
                      BEGIN
                                                                                                                                                        SET Balance = Balance-200
                                                                                       A ROLLBACK command is used to rollback the transactions which are not
                                                                                                                                                        WHERE AccountName = 'Rose';
                      ROLLBACK;
                                                                                       saved in the database.
Rollback command
                                                                                                                                                        UPDATE BankAccounts
                      COMMIT;
                                                                                                                                                        SET Balance = Balance-300
                                                                                       The default terminator for a ROLLBACK command is semicolon (;).
                                                                                                                                                        WHERE AccountName = 'Rose';
                      END
                                                                                                                                                        IF retcode < 0 THEN
                                                                                                                                                        ROLLBACK WORK;
                                                                                                                                                        ELSE
                                                                                                                                                        COMMIT WORK;
                                                                                                                                                        END IF;
                                                                                                                                                        END
MySQL Transactions using Stored Procedure
Commit command
                      DELIMITER //
                                                                                       A COMMIT command is used to persist the changes in the database.
                                                                                                                                                        DELIMITER //
                      CREATE PROCEDURE PROCEDURE_NAME
                                                                                                                                                        CREATE PROCEDURE TRANSACTION_ROSE()
                                                                                       The default terminator for a COMMIT command is semicolon (;).
                      BEGIN
                                                                                                                                                        BEGIN
                      COMMIT;
                                                                                                                                                        DECLARE EXIT HANDLER FOR SQLEXCEPTION
                                                                                                                                                        BEGIN
                      END //
                                                                                                                                                        ROLLBACK;
                                                                                                                                                        RESIGNAL;
                      DELIMITER;
                                                                                                                                                        END;
                                                                                                                                                        START TRANSACTION;
                                                                                                                                                        UPDATE BankAccounts
```

SET Balance = Balance-200
WHERE AccountName = 'Rose';

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```
DELIMITER //
CREATE PROCEDURE PROCEDURE_NAME
BEGIN
ROLLBACK;
COMMIT;
END //
DELIMITER;
```

Author(s)

D.M Naidu



Changelog

Date Version Changed by Change Description 2022-10-04 1.0 D.M.Naidu Initial Version

The default terminator for a ROLLBACK command is semicolon (;).

```
UPDATE BankAccounts
SET Balance = Balance-300
WHERE AccountName = 'Rose';
COMMIT;
END //
DELIMITER;
DELIMITER //
CREATE PROCEDURE TRANSACTION ROSE()
BEGIN
DECLARE EXIT HANDLER FOR SQLEXCEPTION
ROLLBACK;
RESIGNAL;
END;
START TRANSACTION;
UPDATE BankAccounts
SET Balance = Balance-200
WHERE AccountName = 'Rose';
UPDATE BankAccounts
SET Balance = Balance-300
WHERE AccountName = 'Rose';
COMMIT;
END //
DELIMITER;
```