-- #SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL

SQL Cheat Sheet: Views, Stored Procedures and Transactions



Views

Topic	Syntax	Description	Example
Create View	CREATE VIEW view_name AS SELECT column1, column2, FROM table_name WHERE condition;	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, SX, JOB TITLE, MIN_SALARY, MAX_SĀLARY FROM EMPLOYEES, JŌBS 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 PROCEDURE_NAME LANGUAGE	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.	LANGUAGE SQL READS SQL DATA DYNAMIC RESULT SETS 1 BEGIN
	BEGIN	The default terminator for a stored procedure is semicolon(:). To set a different.	DECLARE C1 CURSOR WITH RETURN FOR
	END @		SELECT * FROM PETSALE;
	followed by the terminator such as '@'.	OPEN C1;	
			END @

Stored Procedures in MySQL using phpMyAdmin

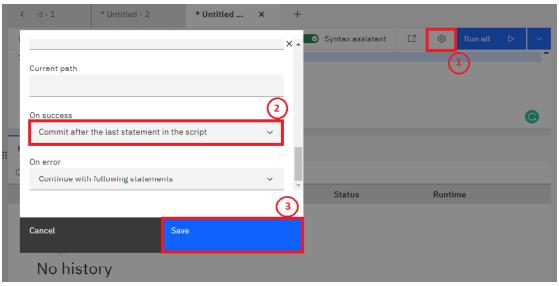
Stored Procedures	DELIMITER //	that are a second is a propared SQL code	DELIMITER //
	CREATE PROCEDURE PROCEDURE_NAME		CREATE PROCEDURE RETRIEVE_ALL()
	BEGIN		BEGIN
	END //	The default terminator for a stored procedure is semicolon (;). To set a different terminator we use DELIMITER clause	SELECT * FROM PETSALE;
	DELIMITER;		END //
		followed by the terminator such as \$\$ or //.	DELIMITER ;

Transactions with Db2

Commit COMMIT;	the database.	CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20), Salary INT, Age INT); INSERT INTO employee(ID, Name, City, Salary, Age) VALUES(1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary', 'Bangalor', 82000, 29);
command		SELECT *FROM employee; COMMIT;
Rollback ^{ROLLBACK} command	A ROLLBACK command is used to rollback the transactions which are not saved in the database. The default terminator for a ROLLBACK command is	As auto-commit is enabled by default, all transactions will be committed. We need to disable this option to see how rollback works. 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!

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--#SET TERMINATOR @ CREATE PROCEDURE
TRANSACTION ROSE LANGUAGE SQL MODIFIES SQL DATA



(;).

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

SELECT *FROM employee; ROLLBACK; SELECT *FROM employee;

Transactions with MySQL

CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20), Salary INT, Age INT); A COMMIT command is used to persist the START TRANSACTION; changes in the database. COMMIT; INSERT INTO employee(ID, Name, City, Salary,
Age) VALUES(1, 'Priyanka pal', 'Nasik', 36000,
21), (2, 'Riya chowdary', 'Bangalor', 82000, 29); Commit command The default terminator for a COMMIT command is semicolon (;). 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;" A ROLLBACK command is used to rollback the transactions which are not saved in the ROLLBACK: Rollback database. INSERT INTO employee VALUES (3, 'Swetha Tiwari',
'Kanpur', 38000, 38); command The default terminator for a ROLLBACK SELECT *FROM employee; command is semicolon (;). ROLLBACK; SELECT *FROM employee;

Db2 Transactions using Stored Procedure

END

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

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@

UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName = 'Rose UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose'; IF retcode < 0 THEN
ROLLBACK WORK;</pre> ELSE COMMIT WORK; END IF; END

CREATE PROCEDURE TRANSACTION ROSE()

DECLARE EXIT HANDLER FOR SQLEXCEPTION

DELIMITER //

BEGIN

BEGIN ROLLBACK;

RESIGNAL; END;

COMMIT; END // DELIMITER; DELIMITER //

START TRANSACTION;

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

UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose';

CREATE PROCEDURE TRANSACTION_ROSE()

DECLARE EXIT HANDLER FOR SQLEXCEPTION BEGIN

MySQL Transactions using Stored Procedure

DELIMITER // CREATE PROCEDURE PROCEDURE_NAME Commit COMMIT; command END // DELIMITER ;

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

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

DELIMITER //

CREATE PROCEDURE PROCEDURE_NAME

BEGIN

Rollback command ROLLBACK; COMMIT;

END // DELIMITER; database.

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

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

START TRANSACTION; UPDATE BankAccounts
SET Balance = Balance-200
WHERE AccountName = 'Rose';

ROLLBACK; RESIGNAL;

UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose';

COMMIT; END // DELIMITER;

Author(s)

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Changelog

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

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