

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, 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

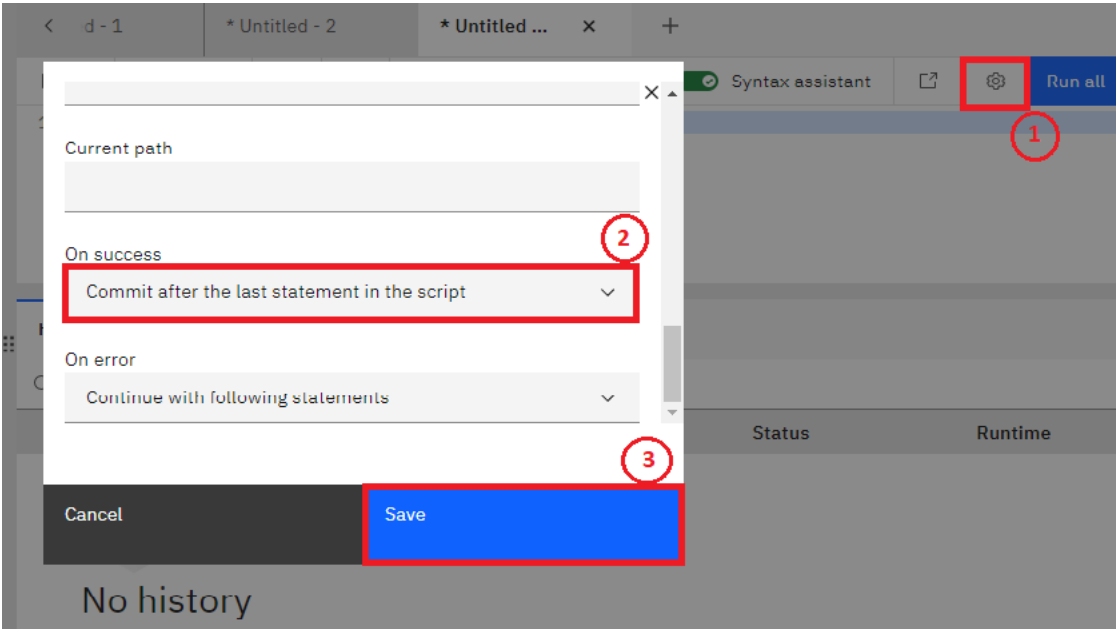
Stored Procedures	--#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.	--#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL
	LANGUAGE BEGIN END @		LANGUAGE SQL READS SQL DATA DYNAMIC RESULT SETS 1 BEGIN DECLARE C1 CURSOR WITH RETURN FOR SELECT * FROM PETSALE; OPEN C1; END @

Stored Procedures in MySQL using phpMyAdmin

Stored Procedures	DELIMITER //	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.	DELIMITER //
	CREATE PROCEDURE PROCEDURE_NAME BEGIN END //		CREATE PROCEDURE RETRIEVE_ALL() BEGIN SELECT * FROM PETSALE; END //
	DELIMITER ;	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 //.	DELIMITER ;

Transactions with Db2

Commit command	COMMIT;	A COMMIT command is used to persist the changes in the database. The default terminator for a COMMIT command is semicolon (;).	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, 'Riy 'Bangalor', 82000, 29); SELECT *FROM employee; COMMIT;
	ROLLBACK;	As auto-commit is enabled by default, all transactions will be committed. We need to disable this opti see how rollback works. For db2, we have to disable auto-commit manually. Click the gear icon located on the right side of the Assistant window. Next, select the "On Success" drop-down and choose "commit after the last statement script" Remember to save your changes!	
Rollback command		The default terminator for a ROLLBACK command is semicolon (;).	



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

Commit command	COMMIT;	<p>A COMMIT command is used to persist the changes in the database.</p> <p>The default terminator for a COMMIT command is semicolon (;).</p>	<pre>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;</pre> <p>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;"</p>
	ROLLBACK;	<p>A ROLLBACK command is used to rollback the transactions which are not saved in the database.</p> <p>The default terminator for a ROLLBACK command is semicolon (;).</p>	<pre>INSERT INTO employee VALUES (3, 'Swetha Tiwari', 'Kanpur', 38000, 38); SELECT *FROM employee; ROLLBACK; SELECT *FROM employee;</pre>

Db2 Transactions using Stored Procedure

Commit command	<pre>--#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME BEGIN COMMIT; END @</pre>	<p>A COMMIT command is used to persist the changes in the database.</p> <p>The default terminator for a COMMIT command is semicolon (;).</p>	<pre>--#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA BEGIN DECLARE SQLCODE INTEGER DEFAULT 0; DECLARE retcode INTEGER DEFAULT 0; DECLARE CONTINUE HANDLER FOR SQLEXCEPTION SET retcode = SQLCODE; 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 @</pre>
	<pre>--#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME</pre>	<p>A ROLLBACK command is used to rollback the transactions which are not saved in the database.</p>	<pre>--#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES</pre>

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	<pre>BEGIN ROLLBACK; COMMIT; END @</pre>	<p>The default terminator for a ROLLBACK command is semicolon (;).</p>	<pre>SQL DATA BEGIN DECLARE SQLCODE INTEGER DEFAULT 0; DECLARE retcode INTEGER DEFAULT 0; DECLARE CONTINUE HANDLER FOR SQLEXCEPTION SET retcode = SQLCODE; 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 @</pre>

MySQL Transactions using Stored Procedure

	<pre>DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN COMMIT; END // DELIMITER ;</pre>	<p>A COMMIT command is used to persist the changes in the database.</p> <p>The default terminator for a COMMIT command is semicolon (;).</p>	<pre>DELIMITER // CREATE PROCEDURE TRANSACTION_ROSE() BEGIN DECLARE EXIT HANDLER FOR SQLEXCEPTION BEGIN 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 ; DELIMITER // CREATE PROCEDURE TRANSACTION_ROSE() BEGIN DECLARE EXIT HANDLER FOR SQLEXCEPTION BEGIN 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 ;</pre>
Commit command			
	<pre>DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN ROLLBACK; COMMIT; END // DELIMITER ;</pre>	<p>A ROLLBACK command is used to rollback the transactions which are not saved in the database.</p> <p>The default terminator for a ROLLBACK command is semicolon (;).</p>	
Rollback command			

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Skills Network

Changelog

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