

SQL Cheat Sheet: Views, Stored Procedures and Transactions



Views

Topic	Syntax	Description	Example
Create View	<code>CREATE VIEW view_name AS SELECT column1, column2, ... FROM table_name WHERE condition;</code>	A <code>CREATE VIEW</code> is an alternative way of representing data that exists in one or more tables.	<code>CREATE VIEW EMPSalary AS SELECT EMP_ID, F_NAME, L_NAME, B_DATE, SEX, SALARY FROM EMPLOYEES;</code>
Update a View	<code>CREATE OR REPLACE VIEW view_name AS SELECT column1, column2, ... FROM table_name WHERE condition;</code>	The <code>CREATE OR REPLACE</code> VIEW command updates a view.	<code>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;</code>
Drop a View	<code>DROP VIEW view_name;</code>	Use the <code>DROP VIEW</code> statement to remove a view from the database.	<code>DROP VIEW EMPSalary;</code>

Stored Procedures on IBM Db2 using SQL

Stored Procedures	<pre>--#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME LANGUAGE BEGIN END @</pre>	A <code>stored procedure</code> 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 <code>SET TERMINATOR</code> clause followed by the terminator such as '@'.	<pre>--#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL LANGUAGE SQL READS SQL DATA DYNAMIC RESULT SETS 1 BEGIN DECLARE C1 CURSOR WITH RETURN FOR SELECT * FROM PETSale; OPEN C1; END @</pre>
-------------------	---	--	---

Stored Procedures in MySQL using phpMyAdmin

Stored Procedures	<pre>DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN END // DELIMITER ;</pre>	A <code>stored procedure</code> 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 <code>DELIMITER</code> clause followed by the terminator such as \$\$ or //.	<pre>DELIMITER // CREATE PROCEDURE RETRIEVE_ALL() BEGIN SELECT * FROM PETSale; END // DELIMITER ;</pre>
-------------------	--	---	--

Transactions in MySQL using phpMyAdmin

Commit command	<pre>DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN COMMIT; END // DELIMITER ;</pre>	A <code>COMMIT command</code> is used to persist the changes in the database. The default terminator for a COMMIT command is semicolon (;).	<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 ;\</pre>
----------------	---	--	---

Rollback command	<pre>DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN ROLLBACK; COMMIT; END // DELIMITER ;</pre>	A <code>ROLLBACK command</code> is used to rollback the transactions which are not saved in the database. The default terminator for a ROLLBACK command is semicolon (;).	<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 ;\</pre>
------------------	--	--	---

Transactions in MySQL using db2

Commit command	<pre>--#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME BEGIN COMMIT; END @</pre>	A <code>COMMIT command</code> is used to persist the changes in the database. The default terminator for a COMMIT command is semicolon (;).	<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>
----------------	--	--	--

Rollback command	<pre>--#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME BEGIN ROLLBACK; COMMIT; END @</pre>	A <code>ROLLBACK command</code> is used to rollback the transactions which are not saved in the database. The default terminator for a ROLLBACK command is semicolon (;).	<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>
------------------	--	--	--

Author(s)

D.M Naidu

Changelog

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