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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;
ī		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;
J	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

			RETRIEVE_ALL
	#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.	LANGUAGE SQL READS SQL DATA
	LANGUAGE		DYNAMIC RESULT SETS 1 BEGIN
Stored Procedures	BEGIN	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
	END @		WITH RETURN FOR
			SELECT * FROM PETSALE;
			OPEN C1;
			END @

--#SET TERMINATOR @ CREATE PROCEDURE

$Stored\ Procedures\ in\ MySQL\ using\ phpMyAdmin$

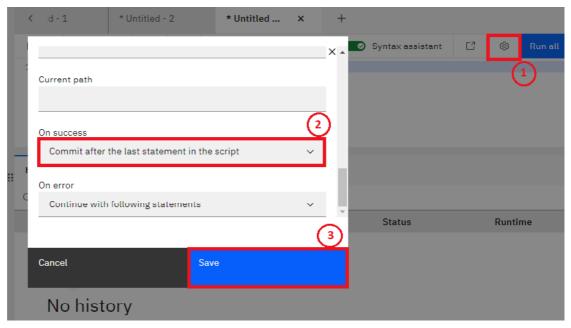
The default terminator for a ROLLBACK command is semicolon (;).

	DELIMITER //	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 //	DELIMITER //
	CREATE PROCEDURE PROCEDURE_NAME		CREATE PROCEDURE RETRIEVE_ALL()
Stored	BEGIN		BEGIN
Procedures	END //		SELECT * FROM PETSALE;
	DELIMITER ;		END //
			DELIMITER :

Τ

Transactions with Db2				
Commit COMMIT; command	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 ROLLBACK; command	A ROLLBACK command is used to rollback the transactions which are not saved in the database.	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!		

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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 changes $_{\mbox{\scriptsize START}}$ TRANSACTION; COMMIT; 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); 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 ROLLBACK; transactions which are not saved in the database. Rollback command The default terminator for a ROLLBACK INSERT INTO employee VALUES (3, 'Swetha
Tiwari', 'Kanpur', 38000, 38); command is semicolon (;). SELECT *FROM employee; ROLLBACK; SELECT *FROM employee;

Db2 Transactions using Stored Procedure

CREATE PROCEDURE PROCEDURE NAME

command

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

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> BEGIN ROLLBACK; COMMIT; END

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

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;</pre>

COMMIT WORK;

DELIMITER //

END IF; **END**

MySQL Transactions using Stored Procedure

DELIMITER //

CREATE PROCEDURE PROCEDURE_NAME

CREATE PROCEDURE PROCEDURE NAME

Commit command

COMMIT;

END // DELIMITER;

DELIMITER //

BEGIN

ROLLBACK;

DELIMITER;

COMMIT;

END //

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

in the database.

ROLLBACK: RESIGNAL:

BEGIN

A COMMIT $\,$ command is used to persist the changes $\,$ END;

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

COMMIT; END // DELIMITER: DELIMITER //

CREATE PROCEDURE TRANSACTION_ROSE()

DECLARE EXIT HANDLER FOR SQLEXCEPTION

BEGIN ROLLBACK: RESIGNAL; END:

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 (;).

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

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

COMMIT; END // DELIMITER;

Author(s)

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Rollback

command



Changelog

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

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