SQL Cheat Sheet: Views, Stored Procedures and Transactions

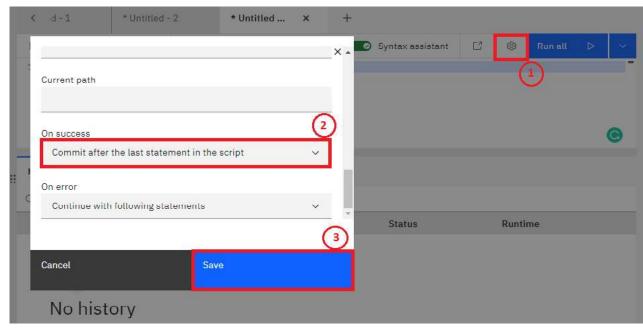


Views

for a ROLLBACK command is semicolon

(;).

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 Proced	ures 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.	#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL
			LANGUAGE SQL READS SQL DATA
			DYNAMIC RESULT SETS 1 BEGIN
	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 WITH RETURN FOR
	END @		SELECT * FROM PETSALE;
		' @'.	OPEN C1;
			END @
Stored Proced	ures in MySQL using phpMyAdmin		
	DELIMITER //	A stored procedure is a prepared SQL code that you	
	CREATE PROCEDURE PROCEDURE_NAME	can save, so the code can be reused over and over again.	CREATE PROCEDURE RETRIEVE_ALL()
Stored	BEGIN	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 //.	BEGIN
Procedures	END //		SELECT * FROM PETSALE;
	DELIMITER;		END //
			DELIMITER;
Transactions	with Db2		
command	The default 82000, 29); terminator SELECT *FROM employee; for a COMMIT; COMMIT command is semicolon (;).		
Rollback ROLLBA command	command is rollback works. used to For db2, we have to disab	by default, all transactions will be committed. We le auto-commit manually. Click the gear icon locate "On Success" drop-down and choose "commit after the	ed on the right side of the SQL Assistant



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

Transactions with MySQL

Rollback

command

--#SET TERMINATOR @

BEGIN

ROLLBACK;

COMMIT;

CREATE PROCEDURE PROCEDURE_NAME

			CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20), Salary INT, Age INT);		
Commit command	COMMIT;	A COMMIT command is used to persist the changes in the START TRANSACTION;			
		database. The default terminator for a COMMIT command is semicolon (;).	<pre>INSERT INTO employee(ID, Name, City, Salary, Age) VALUES(1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary', 'Bangalor', 82000, 29);</pre>		
			SELECT *FROM employee; COMMIT;		
Rollback command	ROLLBACK;	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 option to see how rollback works. For MySQL use the command "SET autocommit = 0;"		
		The default terminator for a ROLLBACK command is semicolon (;).	<pre>INSERT INTO employee VALUES (3, 'Swetha Tiwari',</pre>		
		()	SELECT *FROM employee; ROLLBACK; SELECT *FROM employee;		
Db2 Transactions using Stored Procedure					
			#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA		
			BEGIN		
Commit command	-#SET TERMINATOR @		DECLARE SQLCODE INTEGER DEFAULT 0; DECLARE retcode INTEGER DEFAULT 0; DECLARE CONTINUE HANDLER FOR SQLEXCEPTION SET retcode = SQLCODE;		
	CREATE PROCEDURE PROCEDURE_NAME	Access of the state of the stat	UPDATE BankAccounts		
	BEGIN	A COMMIT command is used to persist the changes in the database.	WHERE AccountName = 'Rose';		
	COMMIT; END @	The default terminator for a COMMIT command is semicolon (;).	UPDATE BankAccounts 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 $\,$

is semicolon (;).

transactions which are not saved in the database.

The default terminator for a ROLLBACK 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 SQLEXCEPTION SET retcode = SQLCODE;

BEGIN

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

UPDATE BankAccounts

DELIMITER;

SET Balance = Balance-200

Author(s)

END

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Changelog

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