6/22/23, 4:19 PM about:blank

## **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_IO, 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

-#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE ALL LANGUAGE SOL A stored procedure is a prepared SQL code that  ${\sf READS}$  SQL DATA --#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE NAME you can save, so the code can be reused over DYNAMIC RESULT SETS 1 LANGUAGE and over again. Stored BEGIN The default terminator for a stored procedure is DECLARE C1 CURSOR Procedures WITH RETURN FOR semicolon(;). To set a different terminator we END use SET TERMINATOR clause followed by the SELECT \* FROM PETSALE; terminator such as '@'. OPEN C1: END @

### Stored Procedures in MySQL using phpMyAdmin

not saved in the database The default terminator ROLLBACK command is

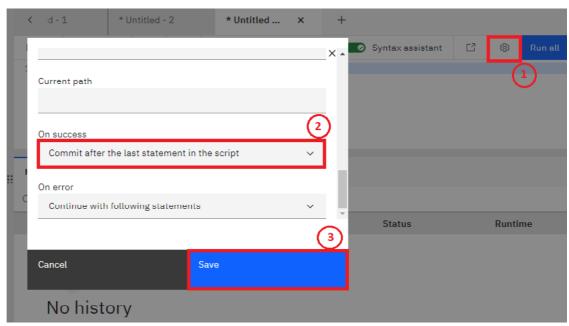
DELIMITER // DELIMITER // A stored procedure is a prepared SQL code that CREATE PROCEDURE PROCEDURE\_NAME you can save, so the code can be reused over CREATE PROCEDURE RETRIEVE\_ALL() and over again. BEGIN Stored The default terminator for a stored procedure is Procedures END // SELECT \* FROM PETSALE; semicolon (;). To set a different terminator we DELIMITER; use DELIMITER clause followed by the terminator  $\ensuremath{^{\text{END}}}$  // such as \$\$ or //. DELIMITER;

**Transactions with Db2** A COMMIT command is used to persist the changes in CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20), Salary INT, Age INT); the database. COMMIT; INSERT INTO employee( ID, Name, City, Salary, Age) VALUES( 1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary' Commit 82000, 29); The default command terminator SELECT \*FROM employee; COMMIT; for a COMMIT command is semicolon (;). Rollback ROLLBACK; A ROLLBACK As auto-commit is enabled by default, all transactions will be committed. We need to disable this option to see rollback works. command command is used to For db2, we have to disable auto-commit manually. Click the gear icon located on the right side of the SQL Assis window. Next, select the "On Success" drop-down and choose "commit after the last statement in the script" Remem rollback the transactions save your changes! which are

1/3 about:blank

6/22/23, 4:19 PM about:blank

semicolon (;).



CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20), Salary INT,

2/3

Age INT);

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

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

### Transactions with MySQL

Commit command	COMMIT;	A COMMIT command is used to persist the changes in the database.  The default terminator for a COMMIT command is semicolon (;).	START TRANSACTION;  INSERT INTO employee( ID, Name, City, Salary, Age) VALUES( 1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary', 'Bangalor', 82000, 29);
Rollback command	ROLLBACK;	A ROLLBACK command is used to rollback the transactions which are not saved in the database.	SET autocommit - 0,
		The default terminator for a ROLLBACK command is semicolon (;).	INSERT INTO employee VALUES (3, 'Swetha Tiwari', 'Kanpur', 38000, 38);  SELECT *FROM employee; ROLLBACK;
			SELECT *FROM employee;

```
Db2 Transactions using Stored Procedure
                                                                                                                                 --#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 TERMINATOR @
                                                                                                                                 SET retcode = SQLCODE;
                   CREATE PROCEDURE PROCEDURE_NAME
                                                                                                                                 UPDATE BankAccounts
                                                                          A COMMIT command is used to persist the changes
                                                                                                                                SET Balance = Balance-200
WHERE AccountName = 'Rose';
                   BEGIN
                                                                          in the database.
Commit
                   COMMIT;
command
                                                                                                                                UPDATE BankAccounts
SET Balance = Balance-300
WHERE AccountName = 'Rose';
                                                                          The default terminator for a COMMIT
                   END
                                                                          command is semicolon (;).
                                                                                                                                IF retcode < 0 THEN
ROLLBACK WORK;</pre>
                                                                                                                                 ELSE
                                                                                                                                 COMMIT WORK;
                                                                                                                                 END IF;
                                                                                                                                 END
                                                                                                                                 --#SET TERMINATOR @ CREATE PROCEDURE
Rollback
                   --#SET TERMINATOR @
                                                                          A ROLLBACK command is used to rollback the
                                                                                                                                TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL
command
                                                                          transactions which are not saved in the database.
                   CREATE PROCEDURE PROCEDURE_NAME
```

BEGIN

6/22/23, 4:19 PM

about:blank ROLLBACK; The default terminator for a ROLLBACK DATA command is semicolon (;). COMMIT; **BEGIN** DECLARE SQLCODE INTEGER DEFAULT 0; DECLARE retcode INTEGER DEFAULT 0; DECLARE CONTINUE HANDLER FOR SQLEXCEPTION END SET retcode = SQLCODE; UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName = 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()

```
DECLARE EXIT HANDLER FOR SQLEXCEPTION
DELIMITER //
                                                                                                     BEGIN
                                                                                                     ROLLBACK;
CREATE PROCEDURE PROCEDURE_NAME
                                                                                                     RESIGNAL;
                                                  A COMMIT command is used to persist the changes
BEGIN
                                                  in the database.
                                                                                                     START TRANSACTION;
COMMIT;
                                                                                                     UPDATE BankAccounts
SET Balance = Balance-200
```

Commit command The default terminator for a COMMIT END // command is semicolon (;). DELIMITER;

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

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

START TRANSACTION; UPDATE BankAccounts SET Balance = Balance-200

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

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

WHERE AccountName = 'Rose';

COMMIT; END // DELIMITER;

# Author(s)

Rollback

command

### D.M Naidu

## Changelog

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

DELIMITER //

BEGIN

ROLLBACK:

COMMIT;

END //

DELIMITER;

CREATE PROCEDURE PROCEDURE NAME

about:blank 3/3