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 IRM Db2 using SOL					

--#SET TERMINATOR @ CREATE PROCEDURE

Stored Procedures in IBM Db2 using SQL

			RETRIEVE_ALL
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. 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 '@'.	DINAMIC RESULT SEIS I
			BEGIN
	BEGIN		DECLARE C1 CURSOR WITH RETURN FOR
	END @		SELECT * FROM PETSALE;
			OPEN C1;
			END @

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

Stored Procedures	DELIMITER //		DELIMITER //
	CREATE PROCEDURE PROCEDURE_NAME	you can save, so the code can be reused over and over again.	. CREATE PROCEDURE RETRIEVE_ALL()
	BEGIN		BEGIN

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 //.

SELECT * FROM PETSALE;
END //

DELIMITER ;

Transactions with Db2

A COMMIT command is used to persist the changes in

the database.

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

Commit COMMIT;

command

INSERT INTO employee (ID, Name, City, Salary, Age) VALUES (1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary', 'Bangalor', 82000, 29);

The default terminator

SELECT *FROM employee;

for a COMMIT;

COMMIT command is semicolon (;).

Rollback ROLLBACK; A ROLLBACK command command is

As auto-commit is enabled by default, all transactions will be committed. We need to disable this option to see how rollback works.

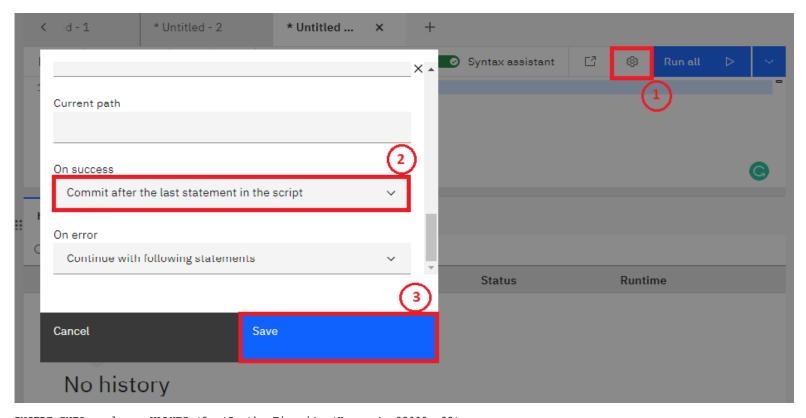
command is used to rollback the transactions which are not saved in the database.

For db2, we have to disable auto-commit manually. Click the gear icon located on the right side of the SQL Assistant window. Next, select the "On Success" drop-down and choose "commit after the last statement in the script" Remember to save your changes!

The default terminator for a

ROLLBACK command is semicolon

(;).



CREATE TABLE employee(ID INT, Name

VARCHAR(20), City VARCHAR(20), Salary INT,

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

SELECT *FROM employee;
ROLLBACK;

SELECT *FROM employee;

Transactions with MySQL

			Age INT);
Commit command	COMMIT;	A COMMIT command is used to persist the changes in the database.	START TRANSACTION;
		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>
			<pre>SELECT *FROM employee; COMMIT;</pre>
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.

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

For MySQL use the command "SET autocommit = 0;"

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 PROCEDURE NAME

BEGIN

Commit command

COMMIT;

END @

Rollback command

--#SET TERMINATOR @

CREATE PROCEDURE PROCEDURE_NAME

BEGIN

ROLLBACK;

COMMIT;

END

A COMMIT command is used to persist the changes in the database.

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

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 (;).

--#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;</pre>

ELSE
COMMIT WORK;

END IF;

END

--#SET TERMINATOR @ CREATE PROCEDURE
TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL
DATA

BEGIN

GIN

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;

DELIMITER //

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

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

BEGIN

CREATE PROCEDURE TRANSACTION_ROSE()

MySQL Transactions using Stored Procedure

DELIMITER //

CREATE PROCEDURE PROCEDURE NAME BEGIN Commit COMMIT; command END // DELIMITER ; Rollback DELIMITER // command CREATE PROCEDURE PROCEDURE NAME BEGIN ROLLBACK; COMMIT; END // DELIMITER ;

DECLARE EXIT HANDLER FOR SQLEXCEPTION BEGIN ROLLBACK; RESIGNAL; A COMMIT command is used to persist the changes in END; the database. START TRANSACTION; UPDATE BankAccounts The default terminator for a COMMIT command is SET Balance = Balance-200 semicolon (;). WHERE AccountName = 'Rose'; UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose'; COMMIT; END // DELIMITER ; DELIMITER // A ROLLBACK command is used to rollback the transactions which are not saved in the database. CREATE PROCEDURE TRANSACTION_ROSE() The default terminator for a ROLLBACK command BEGIN is semicolon (;). DECLARE EXIT HANDLER FOR SQLEXCEPTION BEGIN ROLLBACK; RESIGNAL; END;

Author(s)

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Changelog

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

COMMIT; END //

DELIMITER ;