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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;
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 IBM Db2 using SQL

			#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL
Stored Procedures	#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. 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 '@'.	LANGUAGE SQL READS SQL DATA
	LANGUAGE		DYNAMIC RESULT SETS 1 BEGIN
	BEGIN		DECLARE C1 CURSOR
	END @		WITH RETURN FOR
			SELECT * FROM PETSALE;
			OPEN C1;
			END
			@

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

Stored Procedures	DELIMITER //	A stored procedure is a prepared SQL code	DELIMITER //
	CREATE PROCEDURE PROCEDURE_NAME		CREATE PROCEDURE RETRIEVE_ALL()
	BEGIN		BEGIN
	END //	semicolon (;). To set a different terminator we use DELIMITER clause followed by the terminator such as \$\$ or //	SELECT * FROM PETSALE;
	DELIMITER;		END //
			DELIMITER :

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Transactions with	ı 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	As auto-commit is enabled by default, all transactions will be committed. We need to disable this opti see how rollback works.
	used to	For db2, we have to disable auto-commit manually. Click the gear icon located on the right side of the

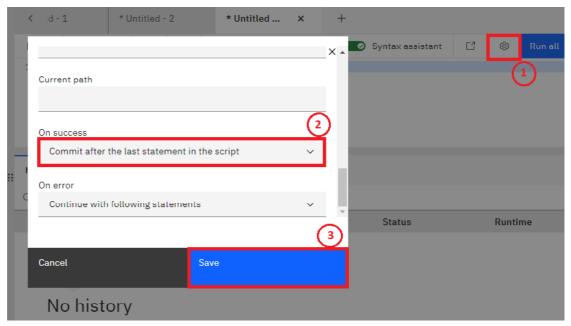
rollback the transactions which are not saved in the database.

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

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 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 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 transactions which are not saved in the database. ROLLBACK; 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

--#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 in the database. Commit WHERE AccountName = 'Rose'; 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. TRANSACTION_ROSE LANGUAGE SQL MODIFIES --#SET TERMINATOR @ Rollback

command CREATE PROCEDURE PROCEDURE_NAME

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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;

END IF; **END**

MySQL Transactions using Stored Procedure

DELIMITER //

CREATE PROCEDURE PROCEDURE_NAME

BEGIN

Commit command

COMMIT;

END //

DELIMITER;

DELIMITER //

CREATE PROCEDURE PROCEDURE NAME

BEGIN

Rollback command ROLLBACK;

COMMIT:

END //

DELIMITER;

DELIMITER //

CREATE PROCEDURE TRANSACTION ROSE()

BEGIN

DECLARE EXIT HANDLER FOR SQLEXCEPTION

ROLLBACK: RESIGNAL:

A COMMIT command is used to persist the changes $\ensuremath{\mathsf{END}}$;

in the database.

The default terminator for a COMMIT

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; DELIMITER //

CREATE PROCEDURE TRANSACTION_ROSE()

DECLARE EXIT HANDLER FOR SQLEXCEPTION

BEGIN ROLLBACK: RESIGNAL;

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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Changelog

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

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