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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_ITITLE, 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 WITH RETURN FOR
	END @		SELECT * FROM PETSALE;
			OPEN C1;
			END @

Stored Procedures in MySQL using phpMyAdmin

The default terminator ROLLBACK command is

Stored Procedures	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()
	BEGIN		BEGIN
	END //		SELECT * FROM PETSALE;
			END //
			DELIMITER;

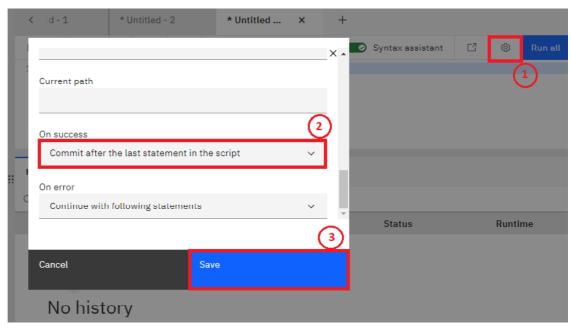
T

		DELIMITER;
Transactions wit	th 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, 'Riya chowdary' 82000, 29); SELECT *FROM employee; COMMIT;
Rollback ROLLBACK; command	GAROLLBACK 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 rollback works. 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 save your changes!

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semicolon (;).



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

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);
			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', 'Kanpur', 38000, 38);</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
                                                                                                                                 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

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```
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                  ROLLBACK;
                                                                    The default terminator for a ROLLBACK
                                                                                                                       DATA
                                                                    command is semicolon (;).
                 COMMIT;
                                                                                                                       BEGIN
                 END
                                                                                                                       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 =
                                                                                                                       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
                                                                    The default terminator for a COMMIT
                 END //
                                                                    command is semicolon (;).
                                                                                                                       WHERE AccountName = 'Rose';
                 DELIMITER;
                                                                                                                       UPDATE BankAccounts
                                                                                                                       SET Balance = Balance-300
WHERE AccountName = 'Rose';
                                                                                                                       COMMIT;
                                                                                                                       END //
```

DELIMITER //

CREATE PROCEDURE PROCEDURE NAME

BEGIN ROLLBACK:

Rollback command

Commit

command

COMMIT;

END //

DELIMITER;

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;

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

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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