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

			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	LANGUAGE SQL READS SQL DATA
	LANGUAGE		DYNAMIC RESULT SETS 1 BEGIN
	BEGIN	semicolon(;). To set a different terminator we use SET TERMINATOR clause followed by the terminator such as '@'.	DECLARE C1 CURSOR WITH RETURN FOR
	END @		
			OPEN C1;
			END @

--#SET TERMINATOR @ CREATE PROCEDURE

Stored Procedures in MySQL using phpMyAdmin

transactions

which are

save your changes!

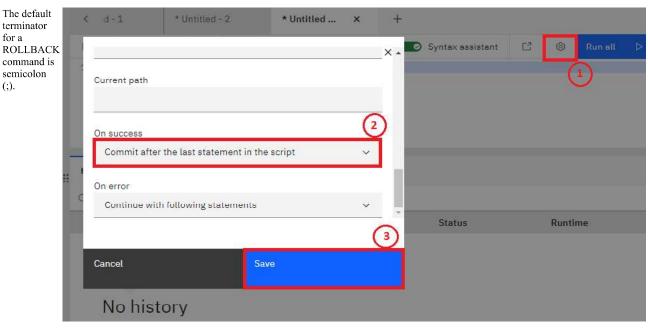
Stored Procedures	DELIMITER //	A stored procedure is a prepared SQL code that	DELIMITER //
	CREATE PROCEDURE PROCEDURE_NAME	you can save, so the code can be reused over and over again.	CREATE PROCEDURE RETRIEVE_ALL()
	BEGIN		BEGIN
	END //		SELECT * FROM PETSALE;
	DELIMITER;		
		as \$\$ or //.	DELIMITER;

Transactions with Db2

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', 'Basedoo, 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 option to see how rollback works.
	used to rollback the	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 t

not saved in the database.

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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 (;).	CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20), Salary INT, Age INT); 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. The default terminator for a ROLLBACK command is semicolon (;).	SELECT *FROM employee; COMMIT; 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;" INSERT INTO employee VALUES (3, 'Swetha Tiwari', 'Kanpur', 38000, 38); SELECT *FROM employee; ROLLBACK; SELECT *FROM employee;

Db2 Transactions using Stored Procedure				
Commit	-#SET TERMINATOR @	A COMMIT command is used to persist the changes in the database. The default terminator for a COMMIT command is semicolon (;).	#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA	
command	CREATE PROCEDURE PROCEDURE_NAME			
	BEGIN		BEGIN	
	COMMIT;		DECLARE SQLCODE INTEGER DEFAULT 0; DECLARE retcode INTEGER DEFAULT 0; DECLARE CONTINUE HANDLER FOR SQLEXCEPTION SET retcode = SQLCODE;	
	END @			
			UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName = 'Rose';	
			UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose';	
			<pre>IF retcode < 0 THEN ROLLBACK WORK;</pre>	
			ELSE COMMIT WORK;	
			END IF;	

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

Author(s)

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Changelog

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Date Version Changed by Change Description

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