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	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 @

Stored Procedures in MySQL using phpMyAdmin

transactions which are not saved in the database.

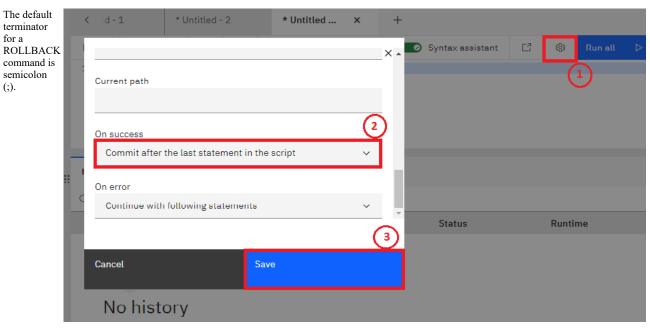
Stored Procedures	DELIMITER //	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again. The default terminator for a stored procedure is semicolon (;). To set a different terminator we use DELIMITER clause followed by the terminator such as \$\$ or //.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

Transactions with Db2

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Transactions with DD2	
Commit command is used to persist the changes in the database. Command The default terminator for a COMMIT command is semicolon (;).	INSERT INTO employee(ID, Name, City, Salary, Age) VALUES(1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary', '8& 82000, 29); SELECT *FROM employee; COMMIT;
Rollback ROLLBACK; A ROLLBACK command command is used to rollback the	As auto-commit is enabled by default, all transactions will be committed. We need to disable this option to see how rollback works. 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
transactions	

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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	Cit	COMMIT;	\boldsymbol{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	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;"
	command		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

DOZ Transactions using Stored Procedure			
Commit command	-#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME	\boldsymbol{A} COMMIT command is used to persist the changes in the database.	#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA
	BEGIN COMMIT; END @	The default terminator for a COMMIT command is semicolon (;).	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;
			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
                                                                  The default terminator for a ROLLBACK
                 COMMIT;
                                                                                                                   SET Balance = Balance-300
                                                                  command is semicolon (;).
                 END
                                                                                                                   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 in END;
                 BEGTN
                                                                  the database.
Commit
                                                                                                                   START TRANSACTION;
                 COMMIT;
                                                                                                                   UPDATE BankAccounts
SET Balance = Balance-200
command
                                                                  The default terminator for a COMMIT command
                 END //
                                                                  is semicolon (;).
                                                                                                                   WHERE AccountName =
                DELIMITER;
                                                                                                                   UPDATE BankAccounts
                                                                                                                   SET Balance = Balance-300
WHERE AccountName = 'Rose';
                                                                                                                   COMMIT;
                                                                                                                   END //
                                                                                                                   DELIMITER;
                                                                                                                   DELIMITER //
                                                                                                                   CREATE PROCEDURE TRANSACTION_ROSE()
                DELIMITER //
                                                                                                                   DECLARE EXIT HANDLER FOR SQLEXCEPTION
                 CREATE PROCEDURE PROCEDURE_NAME
                                                                                                                   ROLLBACK;
                                                                                                                   RESIGNAL;
                 BEGIN
                                                                  A ROLLBACK command is used to rollback the
                                                                                                                   END;
                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

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