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.	LANGUAGE SQL READS SQL DATA
	LANGUAGE over age BEGIN The def		DYNAMIC RESULT SETS 1 BEGIN
		The default terminator for a stored procedure is	DECLARE C1 CURSOR WITH RETURN FOR
	END @	SET TERMINATOR clause followed by the terminator such as '@'.	
			OPEN C1;
			END @
C. ID	I 'M COL ' IM AI'		

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

transactions which are not saved in the database.

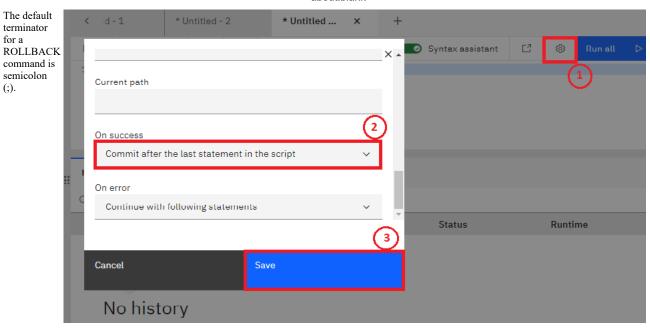
	DELIMITER //	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again. B The default terminator for a stored procedure is semicolon (;). To set a different terminator we use DELIMITER clause followed by the terminator such as \$\$ or //.	DELIMITER //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

Transactions with Db2

ii ansactions wit	11 1002	
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', 'B: 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 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

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save your changes!



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);
	Cit	COMMIT;	\boldsymbol{A} COMMIT command is used to persist the changes in the database.	START TRANSACTION;
	Commit command		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	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;

			Seece Trom employee,
Db2 Transa	ctions using Stored Procedure		
Commit	-#SET TERMINATOR @	The default terminator for a COMMIT command is semicolon (;).	#SET TERMINATOR @ CREATE PROCEDURE
command	CREATE PROCEDURE PROCEDURE_NAME		TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA
	BEGIN		BEGIN
	COMMIT;		DECLARE SQLCODE INTEGER DEFAULT 0;
	END @	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

Author(s)

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