# **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

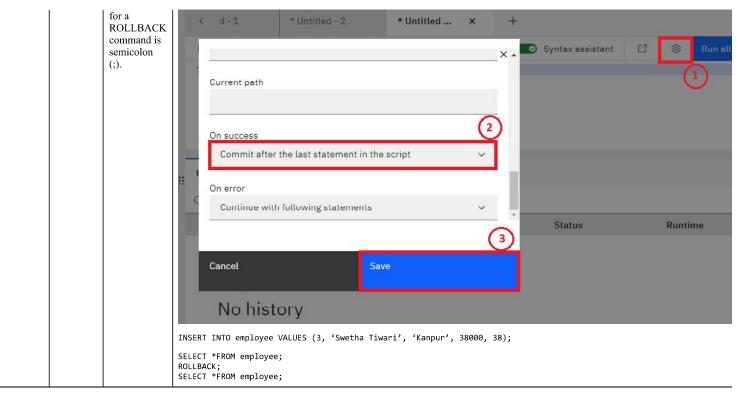
Stored Procedures	#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME LANGUAGE BEGIN END @	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.  The default terminator for a stored procedure is semicolon(;). To set a different terminator we use SET TERMINATOR clause followed by the terminator such as '@'.	#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL  LANGUAGE SQL READS SQL DATA  DYNAMIC RESULT SETS 1 BEGIN  DECLARE C1 CURSOR WITH RETURN FOR  SELECT * FROM PETSALE;  OPEN C1;
			END @

## Stored Procedures in MySQL using phpMyAdmin

Stored Procedures	DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN END // 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 RETRIEVE_ALL() BEGIN SELECT * FROM PETSALE; END // DELIMITER;
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## **Transactions with Db2**

Commit	СОММІТ;	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 chowdar 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.  The default terminator	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 Assi window. Next, select the "On Success" drop-down and choose "commit after the last statement in the script" Reme save your changes!



### 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);  SELECT *FROM employee; COMMIT;
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 (;).	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 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	The default terminator for a COMMIT	BEGIN
	COMMIT;	command is semicolon (;).	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 @
Rollback command	#SET TERMINATOR @  CREATE PROCEDURE PROCEDURE_NAME  BEGIN  ROLLBACK;  COMMIT;  END @	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 (;).	#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA  BEGIN  DECLARE SQLCODE 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;  END @

# MySQL Transactions using Stored Procedure

Commit	DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN COMMIT; END // DELIMITER;	A COMMIT command is used to persist the changes in the database.  The default terminator for a COMMIT command is semicolon (;).	DELIMITER //  CREATE PROCEDURE TRANSACTION_ROSE()  BEGIN  DECLARE EXIT HANDLER FOR SQLEXCEPTION BEGIN ROLLBACK; RESIGNAL; END;  START TRANSACTION; UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName = 'Rose';  UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose';  COMMIT; END // DELIMITER;
Rollback command	DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN ROLLBACK; COMMIT; END // DELIMITER;	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 (;).	DELIMITER //  CREATE PROCEDURE TRANSACTION_ROSE()  BEGIN  DECLARE EXIT HANDLER FOR SQLEXCEPTION BEGIN ROLLBACK; RESIGNAL; END;  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)

