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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_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 @
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## Stored Procedures in MySQL using phpMyAdmin

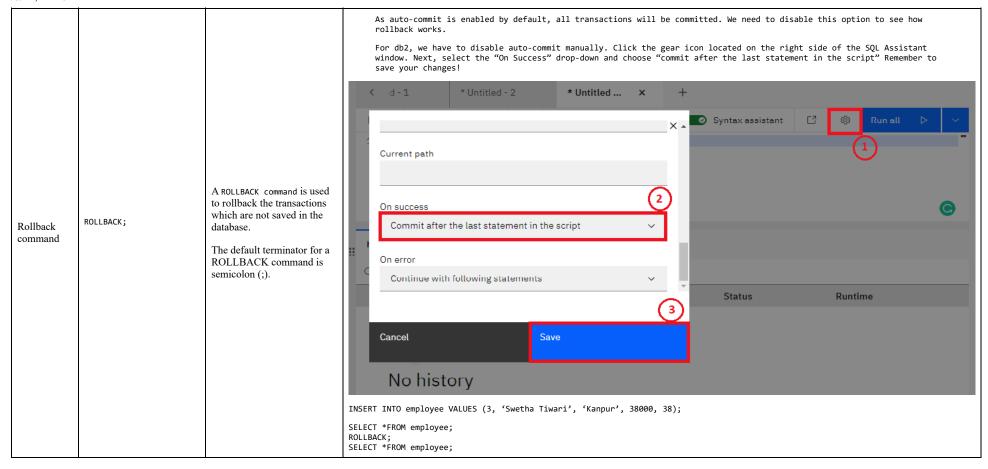
	DELIMITER //		DELIMITER //
	CREATE PROCEDURE PROCEDURE_NAME		CREATE PROCEDURE RETRIEVE_ALL()
Ct I D I	BEGIN	so the code can be reused over and over again.	BEGIN
Stored Procedures	END //	set a different terminator we use DELIMITER clause followed by	SELECT * FROM PETSALE;
	DELIMITER;		END //
			DELIMITER;

#### **Transactions with Db2**

Commit command	COMMIT;	database.  The default terminator for a	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', 'Bangalor', 82000, 29);  SELECT *FROM employee; COMMIT;
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#### 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;

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#### **Db2** Transactions using Stored Procedure

Commit command	-#SET TERMINATOR @  CREATE PROCEDURE PROCEDURE_NAME  BEGIN  COMMIT;  END @	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  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 @
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 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; END @

## **MySQL Transactions using Stored Procedure**

Commit command	DELIMITER //	A COMMIT command is used to persist the changes in the database.	DELIMITER //
	CREATE PROCEDURE PROCEDURE_NAME	The default terminator for a COMMIT command is semicolon	CREATE PROCEDURE TRANSACTION_ROSE()
	BEGIN	(;).	BEGIN
	COMMIT;		DECLARE EXIT HANDLER FOR SQLEXCEPTION BEGIN
	END //		ROLLBACK;

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	DELIMITER;		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;

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