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## **SQL Cheat Sheet: Views, Stored Procedures and Transactions**

#### Views

Topic	Syntax	Description	Example
Create View   column1, column2, FROM table_name		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	#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME  LANGUAGE BEGIN	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	#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL  LANGUAGE SQL READS SQL DATA  DYNAMIC RESULT SETS 1 BEGIN  DECLARE C1 CURSOR
Procedures	END @	procedure is semicolon(;). To set a different terminator we use SET TERMINATOR clause followed by the terminator such as '@'.	WITH RETURN FOR  SELECT * FROM PETSALE;  OPEN C1;
			END @

### Stored Procedures in MySQL using phpMyAdmin

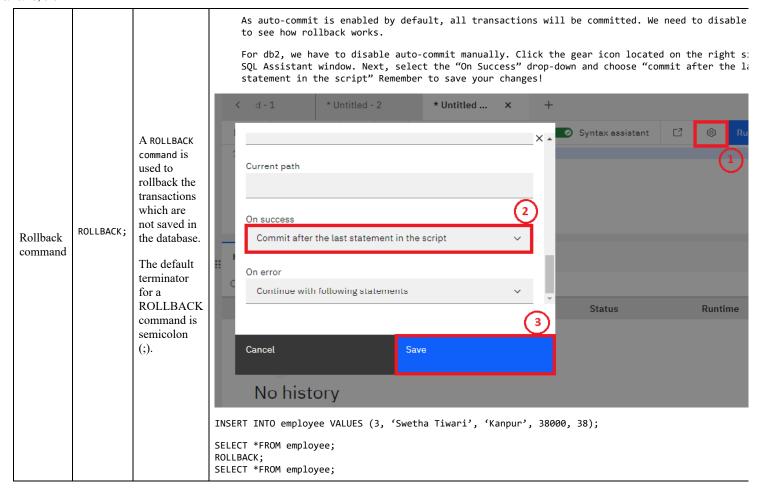
	DELIMITER // CREATE PROCEDURE PROCEDURE_NAME	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.	DELIMITER // CREATE PROCEDURE RETRIEVE_ALL()
Stored	BEGIN	The default terminator for a stored	BEGIN
Procedures	END //	procedure is semicolon (;). To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

#### **Transactions with Db2**

Commit	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);  INSERT INTO employee( ID, Name, City, Salary, Age) VALUES( 1, 'Priyanka pal', 'Nasik', 36000, 21) 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;

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

Commit command	-#SET TERMINATOR @  CREATE PROCEDURE PROCEDURE_NAME	A COMMIT command is used to persist the changes in the database.	#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA
	BEGIN		BEGIN

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	COMMIT; END @	The default terminator for a COMMIT command is semicolon (;).	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;
Rollback	#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 // CREATE PROCEDURE PROCEDURE_NAME	A COMMIT command is used to persist the changes in the database.	DELIMITER // CREATE PROCEDURE TRANSACTION_ROSE()
	BEGIN COMMIT; END // DELIMITER;	The default terminator for a COMMIT command is semicolon (;).	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 //

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Rollback	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;  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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# Author(s)

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