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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

			#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.  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 '@'.	LANGUAGE SQL READS SQL DATA
	LANGUAGE		DYNAMIC RESULT SETS 1 BEGIN
	BEGIN		DECLARE C1 CURSOR WITH RETURN FOR
	END @		SELECT * FROM PETSALE;
			OPEN C1;
			END @

# Stored Procedures in MySQL using phpMyAdmin

the database. The default terminator for a ROLLBACK command is

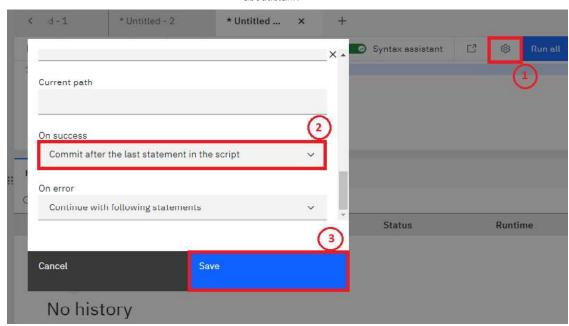
	DELIMITER //	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.  The default terminator for a stored procedure is semicolon (;). To set a different terminator we use DELIMITER clause followed by the terminator such as \$\$ or //.	DELIMITER //
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

### Ti

		,
Transactions wit	h Db2	
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' 82000, 29); SELECT *FROM employee; COMMIT;
Rollback ROLLBACK; command	A ROLLBACK command is used to rollback the transactions which are not saved in	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 Assis window. Next, select the "On Success" drop-down and choose "commit after the last statement in the script" Remem save your changes!

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semicolon (;).



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	C :	COMMIT;	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>
				SELECT *FROM employee; COMMIT;
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>
				<pre>SELECT *FROM employee; ROLLBACK; SELECT *FROM employee;</pre>

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

```
--#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 TERMINATOR @
                                                                                                          SET retcode = SQLCODE;
               CREATE PROCEDURE PROCEDURE_NAME
                                                                                                          UPDATE BankAccounts
                                                             A COMMIT command is used to persist the changes
                                                                                                          SET Balance = Balance-200
               BEGIN
                                                             in the database.
                                                                                                          WHERE AccountName = 'Rose';
Commit
               COMMIT;
command
                                                                                                          UPDATE BankAccounts
                                                             The default terminator for a COMMIT
                                                                                                          SET Balance = Balance-300
               END
                                                             command is semicolon (;).
                                                                                                          WHERE AccountName = 'Rose';
                                                                                                          IF retcode < 0 THEN
                                                                                                          ROLLBACK WORK;
                                                                                                          ELSE
                                                                                                          COMMIT WORK;
                                                                                                          END IF;
                                                                                                          END
Rollback
               --#SET TERMINATOR @
                                                             A ROLLBACK command is used to rollback the
                                                                                                           --#SET TERMINATOR @ CREATE PROCEDURE
                                                             transactions which are not saved in the database. TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL
command
               CREATE PROCEDURE PROCEDURE_NAME
```

BEGIN

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ROLLBACK; The default terminator for a ROLLBACK DATA command is semicolon (;). COMMIT; BEGIN DECLARE SQLCODE INTEGER DEFAULT 0; DECLARE retcode INTEGER DEFAULT 0; DECLARE CONTINUE HANDLER FOR SQLEXCEPTION END SET retcode = SQLCODE; UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName = UPDATE BankAccounts SET Balance = Balance-300
WHERE AccountName = 'Rose'; IF retcode < 0 THEN ROLLBACK WORK; COMMIT WORK; END IF; END

### **MySQL Transactions using Stored Procedure**

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

CREATE PROCEDURE TRANSACTION ROSE() BEGIN DELIMITER // DECLARE EXIT HANDLER FOR SQLEXCEPTION CREATE PROCEDURE PROCEDURE\_NAME ROLLBACK; RESIGNAL; BEGIN A ROLLBACK command is used to rollback the ROLLBACK; transactions which are not saved in the database. START TRANSACTION; UPDATE BankAccounts SET Balance = Balance-200 COMMIT; The default terminator for a ROLLBACK command is semicolon (;). WHERE AccountName = END // UPDATE BankAccounts DELIMITER;

UPDATE BankAccounts
SET Balance = Balance-300
WHERE AccountName = 'Rose';
COMMIT;
END //

DELIMITER;

DELIMITER //

# Author(s)

### D.M Naidu

Rollback

command

## Changelog

**Date** Version Changed by Change Description 2022-10-04 1.0 D.M.Naidu Initial Version

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