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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 default terminator ROLLBACK command is

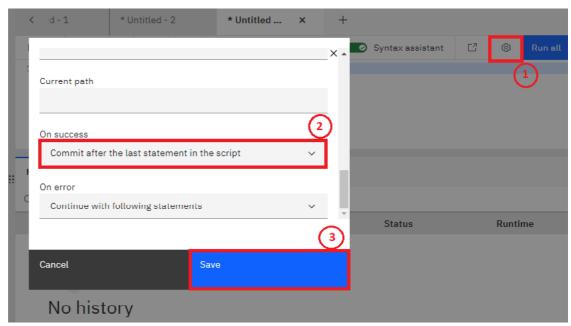
Stored Procedures	DELIMITER //	A stored procedure is a prepared SQL code that	DELIMITER //
	CREATE PROCEDURE PROCEDURE_NAME	you can save, so the code can be reused over and over again.	
	BEGIN		BEGIN
	END //	The default terminator for a stored procedure is semicolon (;). To set a different terminator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

#### T

		DELIMITER;
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 the database.	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,

Age INT);

INSERT INTO employee VALUES (3, 'Swetha Tiwari', 'Kanpur', 38000, 38); SELECT \*FROM employee; ROLLBACK; SELECT \*FROM employee;

#### 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 (;).	START TRANSACTION;  INSERT INTO employee( ID, Name, City, Salary, Age) VALUES( 1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary', 'Bangalor', 82000, 29);
Rollback	ROLLBACK;	A ROLLBACK command is used to rollback the transactions which are not saved in the database	SELECT *FROM employee; COMMIT;  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;

BEGIN

```
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
WHERE AccountName = 'Rose';
                 BEGIN
                                                                   in the database.
Commit
                 COMMIT;
command
                                                                                                                    UPDATE BankAccounts
SET Balance = Balance-300
                                                                   The default terminator for a COMMIT
                 FND
                                                                  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
                                                                                                                    TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL
                                                                  transactions which are not saved in the database.
command
                 CREATE PROCEDURE PROCEDURE_NAME
```

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

DELIMITER //

CREATE PROCEDURE PROCEDURE\_NAME

BEGIN

Rollback command

Commit

command

ROLLBACK: COMMIT;

END //

DELIMITER;

A ROLLBACK command is used to rollback the

The default terminator for a ROLLBACK

command is semicolon (;).

DELIMITER; DELIMITER //

CREATE PROCEDURE TRANSACTION\_ROSE()

BEGIN

DECLARE EXIT HANDLER FOR SQLEXCEPTION

ROLLBACK; RESIGNAL;

transactions which are not saved in the database. START TRANSACTION; UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName =

> UPDATE BankAccounts SET Balance = Balance-300
> WHERE AccountName = 'Rose';

COMMIT; END //

DELIMITER;

# Author(s)

### D.M Naidu

# Changelog

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

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