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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

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

-#SET TERMINATOR @ CREATE PROCEDURE

Stored Procedures in MySQL using phpMyAdmin

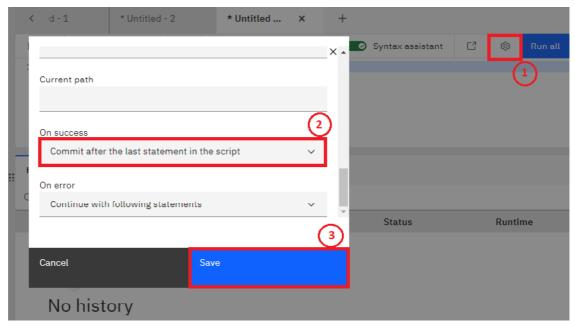
terminator for a ROLLBACK command is semicolon (;).

	DELIMITER //	A stored procedure is a prepared SQL code that	DELIMITER //
Stored Procedures	CREATE PROCEDURE PROCEDURE_NAME	you can save, so the code can be reused over and	
	BEGIN	over again.	BEGIN
	END //	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 //.	SELECT * FROM PETSALE;
	DELIMITER;		END //
			DELIMITER ;

```
Transactions with Db2
                      A COMMIT
                      command is
                      used to
                      persist the
                      changes in
                                    CREATE TABLE employee(ID INT, Name VARCHAR(20), City VARCHAR(20), Salary INT, Age INT);
                      the database.
          COMMIT;
                                     INSERT INTO employee( ID, Name, City, Salary, Age) VALUES( 1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary'
Commit
                                     82000, 29);
command
                      The default
                                    SELECT *FROM employee;
                      terminator
                                    COMMIT;
                      for a
                      COMMIT
                      command is
                      semicolon
                      (;).
Rollback ROLLBACK; A ROLLBACK
                                           As auto-commit is enabled by default, all transactions will be committed. We need to disable this option to see
                                           rollback works.
command
                      command is
                      used to
                                           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
                      rollback the
                      transactions
                                           save your changes!
                      which are
                      not saved in
                      the database.
                      The default
```

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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); A COMMIT command is used to persist the changes START TRANSACTION; COMMIT: in the database. Commit INSERT INTO employee(ID, Name, City,
Salary, Age) VALUES(1, 'Priyanka pal',
'Nasik', 36000, 21), (2, 'Riya chowdary',
'Bangalor', 82000, 29); command The default terminator for a COMMIT command is semicolon (;). 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 A ROLLBACK command is used to rollback the works. For MySQL use the command "SET autocommit = 0;" ROLLBACK; transactions which are not saved in the database. Rollback command INSERT INTO employee VALUES (3, 'Swetha
Tiwari', 'Kanpur', 38000, 38); The default terminator for a ROLLBACK command is semicolon (;). SELECT *FROM employee; ROLLBACK; SELECT *FROM employee;

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 SET Balance = Balance-200 A COMMIT command is used to persist the changes 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 TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL transactions which are not saved in the database. command CREATE PROCEDURE PROCEDURE_NAME DATA BEGIN BEGIN

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```
ROLLBACK;
COMMIT;
END
```

The default terminator for a ROLLBACK 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;

MySQL Transactions using Stored Procedure

DELIMITER //
CREATE PROCEDURE PROCEDURE_NAME
BEGIN
Commit command
COMMIT;

A COMMIT command is used to persist the changes in the database.

END //

The default terminator for a COMMIT command is semicolon (;).

DELIMITER;

DELIMITER //
CREATE PROCEDURE PROCEDURE_NAME
BEGIN
ROLLBACK;
COMMIT;

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 ; 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)

D.M Naidu

Rollback

command

END //

DELIMITER;



Changelog

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