9/20/23, 3:47 PM about:blank

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	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 for a ROLLBACK command is

Stored Procedures	DELIMITER //	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 PROCEDURE_NAME		CREATE PROCEDURE RETRIEVE_ALL()
	BEGIN		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;

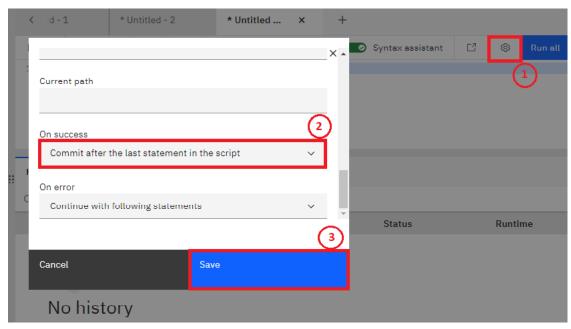
Ti

		buon αυ ψφ στ //.	DELIMITER ;	
Transactions wit	th Db2			
Commit COMMIT; command	the database. The default terminator	CREATE TABLE employee(ID INT, Name VARCHAR(20), City INSERT INTO employee(ID, Name, City, Salary, Age) VA 82000, 29); SELECT *FROM employee; COMMIT;	VARCHAR(20), Salary INT, Age INT); ALUES(1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdan	ıry¹
Rollback ROLLBACK; command	GA ROLLBACK command is used to rollback the transactions which are not saved in the database.	rollback works. For db2, we have to disable auto-commit manually	sactions will be committed. We need to disable this option to se y. Click the gear icon located on the right side of the SQL Asson and choose "commit after the last statement in the script" Rem	sis

1/3 about:blank

9/20/23, 3:47 PM about:blank

> 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

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', command The default terminator for a COMMIT command is semicolon (;). 'Bangalor', 82000, 29); 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;" transactions which are not saved in the database. ROLLBACK; 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 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 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; FND A ROLLBACK command is used to rollback the transactions which are not saved in the database. TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL Rollback --#SET TERMINATOR @ command CREATE PROCEDURE PROCEDURE_NAME

BEGIN

9/20/23, 3:47 PM about:blank

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

about:blank 3/3