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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			
Stored Procedures			#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL
	#SET TERMINATOR @ CREATE PROCEDURE	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.	LANGUAGE SQL READS SQL DATA
	PROCEDURE_NAME LANGUAGE		DYNAMIC RESULT SETS 1 BEGIN
	BEGIN	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 '@'.	DECLARE C1 CURSOR WITH RETURN FOR
	END @		SELECT * FROM PETSALE;
			OPEN C1;
			END @
Stored Procedures in MySQL using phpMyAdmin			
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 //	semicolon (;). To set a different terminator we use	SELECT * FROM PETSALE;
	DELIMITED .		END //

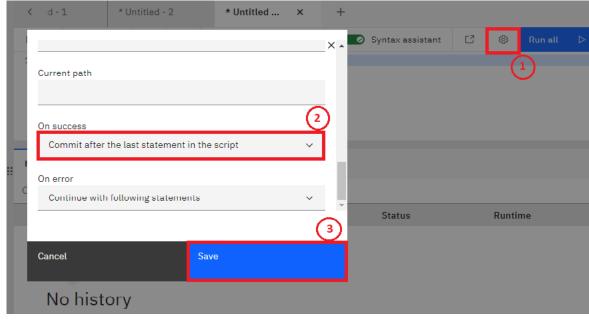
DELIMITER;

command is semicolon (;).

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as $$ or //.
                                                                                                                            DELIMITER;
Transactions with Db2
                      A \; \mathsf{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.
                                     INSERT INTO employee( ID, Name, City, Salary, Age) VALUES( 1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary', 'Ba
          COMMIT;
Commit
                                     82000, 29);
                      The default
command
                      terminator
                                     SELECT *FROM employee;
                      for a
                                     COMMIT;
                      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 how
                                           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 Assistant window. Next, select the "On Success" drop-down and choose "commit after the last statement in the script" Remember t
                      rollback the
                                           save your changes!
                      transactions
                      which are
                      not saved in
                      the database.
                      The default
                      terminator
                      for a
                      ROLLBACK
```

DELIMITER clause followed by the terminator such END //

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

Db2 Transactions using Stored Procedure

A COMMIT command is used to persist the changes in $\mbox{--\#SET}$ TERMINATOR $\mbox{@}$ CREATE PROCEDURE -#SET TERMINATOR @ Commit TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL command CREATE PROCEDURE PROCEDURE_NAME The default terminator for a COMMIT command BEGIN BEGIN is semicolon (;). COMMIT; 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 = 'Rose'; UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose'; IF retcode < 0 THEN ROLLBACK WORK; ELSE COMMIT WORK; END IF;

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```
--#SET TERMINATOR @ CREATE PROCEDURE
                                                                                                                TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL
                                                                                                                DATA
                                                                                                                BEGIN
                                                                                                                DECLARE SQLCODE INTEGER DEFAULT 0;
                                                                                                                DECLARE retcode INTEGER DEFAULT 0;
                --#SET TERMINATOR @
                                                                                                                DECLARE CONTINUE HANDLER FOR SQLEXCEPTION
                                                                                                                SET retcode = SQLCODE;
                CREATE PROCEDURE PROCEDURE_NAME
                                                                                                                UPDATE BankAccounts
                BEGIN
                                                                A ROLLBACK command is used to rollback the
                                                                                                                SET Balance = Balance-200
                                                                transactions which are not saved in the database.
                                                                                                                WHERE AccountName = 'Rose';
                ROLLBACK;
Rollback
command
                                                                                                                UPDATE BankAccounts
                                                                The default terminator for a ROLLBACK
                COMMIT;
                                                                                                                SET Balance = Balance-300
                                                                command is semicolon (;).
                END
                                                                                                                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;
                                                                A COMMIT command is used to persist the changes in END;
                BEGTN
                                                                the database.
Commit
                                                                                                                START TRANSACTION;
                COMMIT;
                                                                                                                UPDATE BankAccounts
command
                                                                The default terminator for a COMMIT command
                                                                                                                SET Balance = Balance-200
                END //
                                                                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
                CREATE PROCEDURE PROCEDURE_NAME
                                                                                                                ROLLBACK;
                                                                                                                RESIGNAL;
                BEGIN
                                                                A ROLLBACK command is used to rollback the
                                                                                                                END;
                ROLLBACK;
                                                                transactions which are not saved in the database.
Rollback
                                                                                                                START TRANSACTION;
                                                                                                                UPDATE BankAccounts
command
                COMMIT;
                                                                The default terminator for a ROLLBACK
                                                                                                                SET Balance = Balance-200
                                                                command is semicolon (;).
                                                                                                                WHERE AccountName = 'Rose';
                END //
                                                                                                                UPDATE BankAccounts
                DELIMITER ;
                                                                                                                SET Balance = Balance-300
                                                                                                                WHERE AccountName = 'Rose';
                                                                                                                COMMIT;
                                                                                                                END //
                                                                                                                DELIMITER;
```

END

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Changelog

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

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