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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
	#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
C41	LANGUAGE		DYNAMIC RESULT SETS 1 BEGIN
Stored Procedures	BEGIN		DECLARE C1 CURSOR WITH RETURN FOR
	END @		SELECT * FROM PETSALE;
			OPEN C1;
			END @

Stored Procedures in MySQL using phpMyAdmin

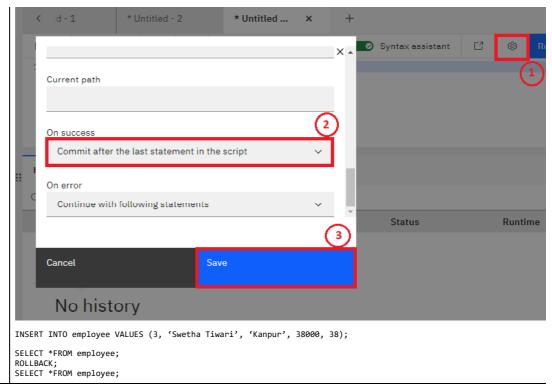
Stored Procedures	DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.	DELIMITER // CREATE PROCEDURE RETRIEVE_ALL() BEGIN
	END //	is semicolon (;). To set a different terminator we use DELIMITER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

Transactions with Db2

		A COMMIT command is used to		
Commit COM	COMMIT;	persist the changes in the database.	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, 'Riyanka pal', 'Nasik', Salary, Age)	
commit command The de termina for a COMM comma		COMMIT command is semicolon	82000, 29); SELECT *FROM employee; COMMIT;	
Rollback command	ROLLBACK;	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 (;).	As auto-commit is enabled by default, all transactions will be committed. We need to disable this option t rollback works. For db2, we have to disable auto-commit manually. Click the gear icon located on the right side of the SQL window. Next, select the "On Success" drop-down and choose "commit after the last statement in the script" save your changes!	

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Transactions with MySQL

Commit	COMMIT;	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); START TRANSACTION; INSERT INTO employee(ID, Name, City, Salary, Age) VALUES(1, 'Priyanka pal', 'Nasik', 36000, 21), (2, 'Riya chowdary', 'Bangalor', 82000, 29); SELECT *FROM employee; COMMIT;
Rollback command	ROLLBACK;	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 (;).	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;" INSERT INTO employee VALUES (3, 'Swetha Tiwari', 'Kanpur', 38000, 38); SELECT *FROM employee; ROLLBACK; SELECT *FROM employee;

Db2 Transactions using Stored Procedure

Commit command	-#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME BEGIN COMMIT; END @	A COMMIT command is used to persist the changes in the database. The default terminator for a COMMIT command is semicolon (;).	#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA BEGIN DECLARE SQLCODE 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 @
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Rollback command	#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME BEGIN ROLLBACK; COMMIT; END @	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 (;).	#SET TERMINATOR @ CREATE PROCEDURE TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL DATA BEGIN DECLARE SQLCODE INTEGER DEFAULT 0; DECLARE continue Handler for Sqlexception SET retcode = Sqlcode; UPDATE BankAccounts SET Balance = Balance-200 WHERE AccountName = 'Rose'; UPDATE BankAccounts SET Balance = Rose'; UPDATE BankAccounts SET Balance = Rose'; UPDATE BankAccounts SET Balance = Rose'; UPDATE BankAccounts SET Balance = Balance-300 WHERE AccountName = 'Rose'; IF retcode < 0 THEN ROLLBACK WORK; ELSE COMMIT WORK; END IF;
			END IF; END @

MySQL Transactions using Stored Procedure

Commit command	DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN COMMIT; END // DELIMITER;	A COMMIT command is used to persist the changes in the database. The default terminator for a COMMIT 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;
Rollback	DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN ROLLBACK; COMMIT; END // DELIMITER;	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;

Author(s)

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