

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 EMP_SALARY 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 EMP_SALARY 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_ID;
Drop a View	DROP VIEW view_name;	Use the DROP VIEW statement to remove a view from the database.	DROP VIEW EMP_SALARY;

Stored Procedures in IBM Db2 using SQL

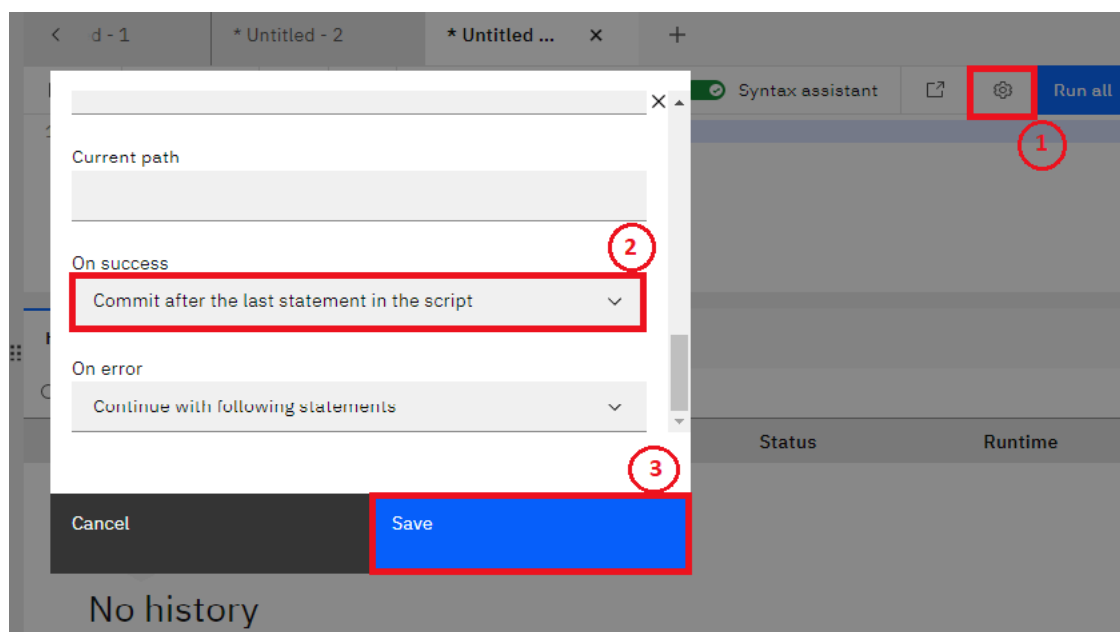
Stored Procedures	--#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME	A stored procedure is a prepared SQL code that you can save, so the code can be reused over and over again.	--#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL
	LANGUAGE SQL BEGIN END @		LANGUAGE SQL READS SQL DATA DYNAMIC RESULT SETS 1 BEGIN DECLARE C1 CURSOR WITH RETURN FOR 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 BEGIN END // DELIMITER ;		CREATE PROCEDURE RETRIEVE_ALL() BEGIN SELECT * FROM PETSALe; END // DELIMITER ;

Transactions with Db2

Commit command	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); 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;	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 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!



```
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 (;).

```
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;
```

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;"

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 (;).

```
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 retcode INTEGER DEFAULT 0;
DECLARE CONTINUE HANDLER FOR SQLXCEPTION
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;
```

```
END
@
```

Rollback
command

```
--#SET TERMINATOR @
CREATE PROCEDURE PROCEDURE_NAME
BEGIN
```

A ROLLBACK command is used to rollback the transactions which are not saved in the database.

```
--#SET TERMINATOR @ CREATE PROCEDURE
TRANSACTION_ROSE LANGUAGE SQL MODIFIES SQL
DATA
```

```
BEGIN
```

```
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;

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 ;
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
command

```
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 (;).

Author(s)

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Changelog

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