## **SQL Cheat Sheet: Views, Stored Procedures and Transactions**



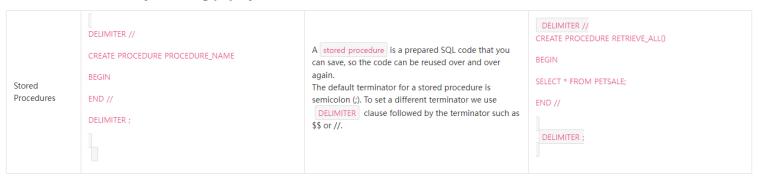
#### **Views**

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 = JOBSJOB_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

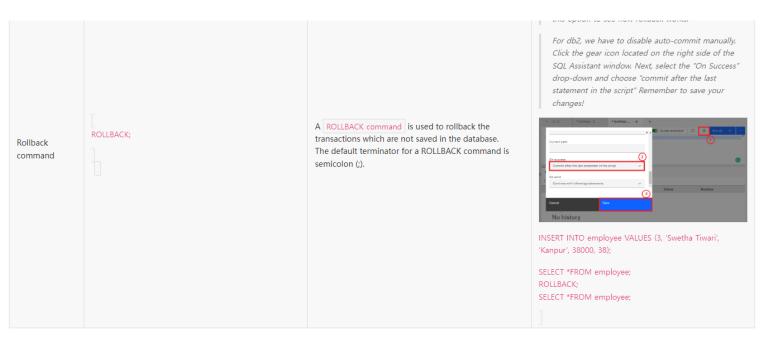


### Stored Procedures in MySQL using phpMyAdmin

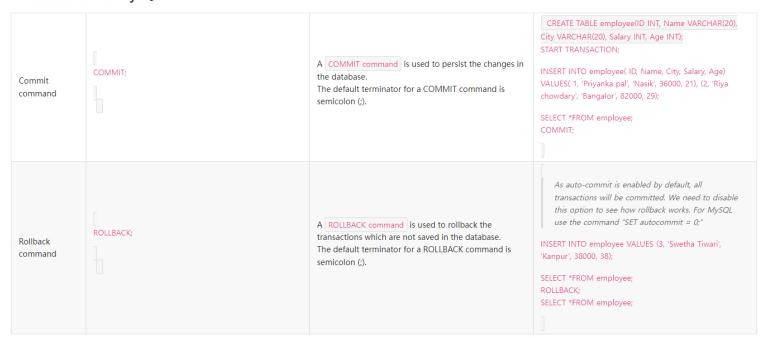


#### Transactions with Db2

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', '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

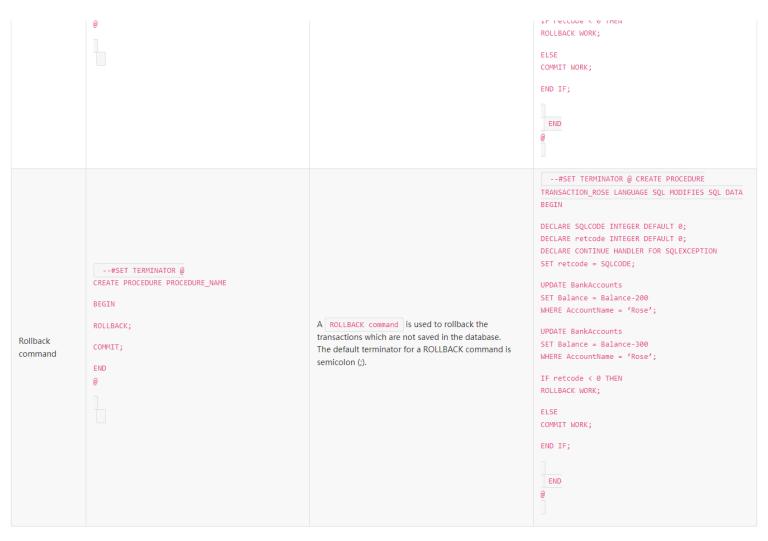


## Transactions with MySQL



#### **Db2 Transactions using Stored Procedure**





### **MySQL Transactions using Stored Procedure**

```
DELIMITER //
                                                                                                                         CREATE PROCEDURE TRANSACTION_ROSE()
                                                                                                                         DECLARE EXIT HANDLER FOR SQLEXCEPTION
                                                                                                                         ROLLBACK;
                 DELIMITER //
                                                                                                                         RESIGNAL;
                                                                                                                         END;
                 CREATE PROCEDURE PROCEDURE_NAME
                                                                                                                         START TRANSACTION;
                 BEGIN
                                                                     A COMMIT command is used to persist the changes in
                                                                                                                         UPDATE BankAccounts
Commit
                 COMMIT:
                                                                                                                          SET Balance = Balance-200
                                                                     The default terminator for a COMMIT command is
command
                                                                                                                         WHERE AccountName = 'Rose';
                                                                     semicolon (;).
                 END //
                                                                                                                         UPDATE BankAccounts
                 DELIMITER;
                                                                                                                         SET Balance = Balance-300
                                                                                                                         WHERE AccountName = 'Rose';
                                                                                                                         COMMIT;
                                                                                                                         END //
                                                                                                                           DELIMITER;
                                                                                                                           DELIMITER //
                                                                                                                         CREATE PROCEDURE TRANSACTION_ROSE()
                                                                                                                         BEGIN
                                                                                                                         DECLARE EXIT HANDLER FOR SQLEXCEPTION
                                                                                                                         BEGIN
                 DELIMITER //
                                                                                                                         ROLLBACK;
                                                                                                                         RESIGNAL;
                 CREATE PROCEDURE PROCEDURE_NAME
                                                                                                                         END;
```

```
START TRANSACTION;
                                                                  ROLLBACK;
                                                                                                                   UPDATE BankAccounts
                                                                  transactions which are not saved in the database.
Rollback
                                                                                                                   SET Balance = Balance-200
                                                                  The default terminator for a ROLLBACK command is
                COMMIT;
command
                                                                                                                   WHERE AccountName = {}^{\epsilon}Rose{}^{\flat};
                                                                  semicolon (;).
                END //
                                                                                                                   UPDATE BankAccounts
                                                                                                                   SET Balance = Balance-300
                DELIMITER;
                                                                                                                   WHERE AccountName = 'Rose';
                                                                                                                   COMMIT;
                                                                                                                   END //
                                                                                                                     DELIMITER;
```

# Author(s)

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## Changelog