

SQL Cheat Sheet: Views, Stored Procedures, Transactions and JOIN statements



Topic	Syntax	Description	Example
Create View	<pre>CREATE VIEW view_name AS SELECT column1, column2, ... FROM table_name WHERE condition;</pre>	A view is an alternative way of representing data that exists in one or more tables.	<pre>CREATE VIEW EMP_SALARY AS SELECT EMP_ID, F_NAME, L_NAME, B_DATE, SEX, SALARY FROM EMPLOYEES;</pre>
Update a View	<pre>CREATE OR REPLACE VIEW view_name AS SELECT column1, column2, ... FROM table_name WHERE condition;</pre>	The CREATE OR REPLACE VIEW command updates a view.	<pre>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_IDENT;</pre>
Drop a View	<pre>DROP VIEW view_name;</pre>	Use the DROP VIEW statement to remove a view from the database.	<pre>DROP VIEW EMP_SALARY;</pre>

Stored Procedures on IBM Db2 using SQL

Stored Procedures	<pre>--#SET TERMINATOR @ CREATE PROCEDURE PROCEDURE_NAME LANGUAGE BEGIN END @</pre>	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 '@'.	<pre>--#SET TERMINATOR @ CREATE PROCEDURE RETRIEVE_ALL LANGUAGE SQL READS SQL DATA DYNAMIC RESULT SETS 1 BEGIN DECLARE C1 CURSOR WITH RETURN FOR SELECT * FROM PETSALE; OPEN C1; END @</pre>
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Stored Procedures in MySQL using phpMyAdmin

Stored Procedures	<pre>DELIMITER // CREATE PROCEDURE PROCEDURE_NAME BEGIN END // DELIMITER ;</pre>	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 DELIMITER clause followed by the terminator such as \$\$ or //.	<pre>DELIMITER // CREATE PROCEDURE RETRIEVE_ALL() BEGIN SELECT * FROM PETSALE; END // DELIMITER ;</pre>
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Joins

Cross Join	<pre>SELECT column_name(s) FROM table1 CROSS JOIN table2;</pre>	The CROSS JOIN is used to generate a paired combination of each row of the first table with each row of the second table.	<pre>SELECT DEPT_ID_DEP, LOCT_ID FROM DEPARTMENTS CROSS JOIN LOCATIONS;</pre>
Inner Join	<pre>SELECT column_name(s) FROM table1 INNER JOIN table2 ON table1.column_name = table2.column_name; WHERE condition;</pre>	You can use an inner join in a SELECT statement to retrieve only the rows that satisfy the join conditions on every specified table.	<pre>select E.F_NAME,E.L_NAME, JH.START_DATE from EMPLOYEES as E INNER JOIN JOB_HISTORY as JH on E.EMP_ID=JH.EMPL_ID where E.DEP_ID ='5';</pre>
Left Outer Join	<pre>SELECT column_name(s) FROM table1 LEFT OUTER JOIN table2 ON table1.column_name = table2.column_name WHERE condition;</pre>	The LEFT OUTER JOIN will return all records from the left side table and the matching records from the right table.	<pre>select E.EMP_ID,E.L_NAME,E.DEP_ID,D.DEP_NAME from EMPLOYEES AS E LEFT OUTER JOIN DEPARTMENTS AS D ON E.DEP_ID=D.DEPT_ID_DEP;</pre>
Right Outer Join	<pre>SELECT column_name(s) FROM table1 RIGHT OUTER JOIN table2 ON table1.column_name = table2.column_name WHERE condition;</pre>	The RIGHT OUTER JOIN returns all records from the right table, and the matching records from the left table.	<pre>select E.EMP_ID,E.L_NAME,E.DEP_ID,D.DEP_NAME from EMPLOYEES AS E RIGHT OUTER JOIN DEPARTMENTS AS D ON E.DEP_ID=D.DEPT_ID_DEP;</pre>
Full Outer Join	<pre>SELECT column_name(s) FROM table1 FULL OUTER JOIN table2 ON table1.column_name = table2.column_name WHERE condition;</pre>	The FULL OUTER JOIN clause results in the inclusion of rows from two tables. If a value is missing when rows are joined, that value is null in the result table.	<pre>select E.F_NAME,E.L_NAME,D.DEP_NAME from EMPLOYEES AS E FULL OUTER JOIN DEPARTMENTS AS D ON E.DEP_ID=D.DEPT_ID_DEP;</pre>
Self Join	<pre>SELECT column_name(s) FROM table1 T1, table1 T2 WHERE condition;</pre>	A self join is regular join but it can be used to joined with itself.	<pre>SELECT B.* FROM EMPLOYEES A JOIN EMPLOYEES B ON A.MANAGER_ID = B.MANAGER_ID WHERE A.EMP_ID = 'E1001';</pre>

Joins in MySQL using phpMyAdmin

Full Outer Join	<pre>SELECT column_name(s) FROM table1 LEFT OUTER JOIN table2 ON table1.column_name = table2.column_name WHERE condition UNION SELECT column_name(s) FROM table1 RIGHT OUTER JOIN table2 ON table1.column_name = table2.column_name WHERE condition</pre>	The UNION operator is used to combine the result-set of two or more SELECT statements.	<pre>select E.F_NAME,E.L_NAME,D.DEP_NAME from EMPLOYEES AS E LEFT OUTER JOIN DEPARTMENTS AS D ON E.DEP_ID=D.DEPT_ID_DEP UNION select E.F_NAME,E.L_NAME,D.DEP_NAME from EMPLOYEES AS E RIGHT OUTER JOIN DEPARTMENTS AS D ON E.DEP_ID=D.DEPT_ID_DEP</pre>
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Author(s)

[D.M Naidu](#)

Changelog

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