


SQL Cheat Sheet: JOIN statements

Joins															
	Topic	Syntax	Description												
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.												
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.												
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.												
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.												
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.												
Self Join		<pre>SELECT column_name(s) FROM table1 T1, table2 T2 WHERE condition;</pre>	A self join is regular join but it can be used to joined with itself.												
Joins in MySQL using phpMyAdmin															
		<pre>SELECT column_name(s) FROM table1 LEFT OUTER JOIN table2 ON table1.column_name = table2.column_name WHERE condition</pre> <pre>WHERE</pre> <pre>SELECT column_name(s)</pre> <pre>FROM table1</pre> <pre>RIGHT OUTER JOIN table2</pre> <pre>ON table1.column_name = table2.column_name</pre> <pre>WHERE condition</pre>													
Full Outer Join			The inner operator is used to combine the result-set of two or more SELECT statements.												
Example															
<pre>SELECT DEPT_ID, EMP_ID, LAST_NAME FROM DEPARTMENTS CROSS JOIN LOCATIONS;</pre> <pre>SELECT E.F, MGR.E_ID, MGR.LAST_NAME FROM EMPLOYEES AS E INNER JOIN DEPT_HISTORY AS DH ON E.DEPT_ID=DH.DEPT_ID WHERE E.DEPT_ID = '5';</pre> <pre>SELECT E.DEPT_ID, E.LAST_NAME, E.DEPT_ID, DEPT_NAME FROM EMPLOYEES AS E LEFT OUTER JOIN DEPARTMENTS AS D ON E.DEPT_ID=D.DEPT_ID DEPT,</pre> <pre>SELECT E.DEPT_ID, E.LAST_NAME, E.DEPT_ID, DEPT NAME FROM EMPLOYEES AS E RIGHT OUTER JOIN DEPARTMENTS AS D ON E.DEPT_ID=D.DEPT_ID DEPT,</pre> <pre>SELECT E.F, MGR.E_ID, MGR.LAST NAME FROM EMPLOYEES AS E FULL OUTER JOIN DEPARTMENTS AS D ON E.DEPT_ID=D.DEPT_ID DEPT,</pre> <pre>SELECT E.F FROM EMPLOYEES E JOIN EMPLOYEES B ON A.MANAGER_ID = B.EMPLOYEE_ID WHERE A.DEPT_ID = '1000';</pre>															
<pre>SELECT E.F, MGR.E_ID, MGR.LAST NAME FROM EMPLOYEES AS E LEFT OUTER JOIN DEPARTMENTS AS D ON E.DEPT_ID=D.DEPT_ID DEPT</pre> <pre>UNION</pre> <pre>SELECT E.F, MGR.E_ID, MGR.LAST NAME</pre> <pre>FROM EMPLOYEES AS E</pre> <pre>RIGHT OUTER JOIN DEPARTMENTS AS D ON E.DEPT_ID=D.DEPT_ID DEPT</pre>															
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<table><tr><th>Date</th><th>Version</th><th>Changed by</th><th>Change Description</th></tr><tr><td>2022-05-04 1.1</td><td>Broug LA</td><td></td><td>Formatting changes</td></tr><tr><td>2022-10-04 1.0</td><td>D.M.Naidu</td><td></td><td>Initial Version</td></tr></table>				Date	Version	Changed by	Change Description	2022-05-04 1.1	Broug LA		Formatting changes	2022-10-04 1.0	D.M.Naidu		Initial Version
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