

INTRODUCTION : MY SQL DEMOS WINTER 2018

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| COUNT | <p>To get a count of the total number of rows /entries in a table/coloum. http://www.w3schools.com/sql/sql_func_count.asp</p> |
| | <p>EXAMPLE 1 : SELECT COUNT(*) FROM spl_2016._transactionsExploded;</p> <p>EXAMPLE 2: SELECT COUNT(callNumber) FROM spl_2016.callNumber;</p> |
| LIMIT | <p>Limits the length of the search to 100 http://www.w3schools.com/sql/sql_top.asp</p> |
| | <p>Example 1 : SELECT * FROM spl_2016._transactionsExploded LIMIT 100;</p> <p>Example 2 : SELECT * FROM spl_2016.title LIMIT 100;</p> |
| SELECT | <p>Select title and deweyClass from... http://www.w3schools.com/sql/sql_select.asp</p> |
| | <p>Example 1 : SELECT checkOut,checkIn FROM spl_2016._transactionsExploded LIMIT 100;</p> <p>Example 2 : SELECT itemNumber,title FROM spl_2016.outraw LIMIT 50;</p> |
| WHERE | <p>Adding a condition to the search http://www.w3schools.com/sql/sql_where.asp</p> |
| | <p>Example 1 : SELECT itemNumber,bibNumber FROM spl_2016.outraw WHERE itemNumber>100 AND itemNumber<130 LIMIT 100;</p> <p>Example 2 : SELECT * FROM spl_2016.itemToBib WHERE bibNumber>100 AND bibNumber<300 LIMIT 100;</p> |
| STRING/LIKE | <p>Data in text mode. There are many options for searching and comparing strings. Similar to LIKE is also STRCMP() See http://dev.mysql.com/doc/refman/5.6/en/string-functions.html</p> |

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| | <p>Example 1: SELECT * FROM spl_2016.title WHERE title = "music" LIMIT 100;</p> <p>Example 2: SELECT * FROM spl_2016.title WHERE title LIKE "%harley%" LIMIT 100;</p> |
| DISTINCT | Minimize to retrieve each output to just once (http://www.w3schools.com/sql/sql_distinct.asp) |
| | <p>Example 1: SELECT DISTINCT bibNumber,subject FROM spl_2016.subject WHERE subject LIKE '%music%' LIMIT 100 ;</p> <p>Example 2 : SELECT DISTINCT title FROM spl_2016.title WHERE title like '%music' LIMIT 30;</p> |
| BETWEEN | Alternative to > = and < |
| | <p>Example 1 : SELECT * FROM spl_2016.subject WHERE bibNumber BETWEEN 20 AND 30 LIMIT 100;</p> |
| RAND | Generates a random number between (0-1) for every row . Used to get N random rows from a table . |
| | <p>Example 1: SELECT * FROM spl_2016.title ORDER BY RAND() LIMIT 100;</p> <p>Example 2: (0.00011 is a number giving percentage of total rows required) SELECT * FROM spl_2016.title WHERE RAND(<0.00011</p> |
| DATATYPES | NUMERIC |

| | |
|------|--|
| | <pre>SELECT * FROM spl_2016.subject WHERE bibNumber>100 AND bibNumber<300 LIMIT 100;</pre> |
| | STRING |
| | <pre>SELECT * FROM spl_2016.title WHERE title = "music" LIMIT 100;</pre> |
| TIME | To extract a particular value of the Timestamp (https://dev.mysql.com/doc/refman/5.5/en/date-and-time-types.html) |
| | <pre>Example 1: SELECT * FROM spl_2016.outraw WHERE date(cout)>'2008-08-08' LIMIT 100;</pre> <pre>Example 2: SELECT * FROM spl_2016._transactionsExploded WHERE year(checkIn)>'2015' LIMIT 100;</pre> <pre>Example 3: SELECT * FROM spl_2016._transactionsExploded WHERE month(checkIn)>"10" LIMIT 100;</pre> <pre>Example 4: SELECT * FROM spl_2016._transactionsExploded WHERE hour(checkIn)>"10" LIMIT 100;</pre> |
| JOIN | <p>INNER JOIN</p> <p>Returns a record if present in both joined tables (http://www.w3schools.com/sql/sql_join_inner.asp)</p> |

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EXAMPLE 1:  
SELECT  
  checkIn, checkOut, spl_2016.title.bibNumber, spl_2016.title.title  
FROM  
  spl_2016.title,  
  spl_2016._transactionsExploded  
WHERE  
  spl_2016._transactionsExploded.bibNumber = spl_2016.title.bibNumber  
  AND (spl_2016.title.title LIKE '%global%')  
LIMIT 100;
```