Aggregate Functions

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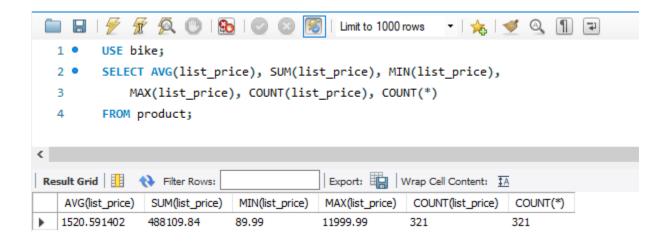
- Aggregate functions are synonymous with column functions.
- A summary query uses at least on column function.
- AVG, SUM return numeric values.
- MIN, MAX, COUNT can return numeric, date, or string values
- All values are included in aggregate functions by default unless you specify the DISTINCT keyword
- Duplicate rows are excluded in all aggregate functions with the exception of COUNT(*)
- ***** IF YOU CODE AN AGGREGATE FUNCTION IN THE SELECT STATEMENT, YOU CANNOT ALSO INCLUDE NON-AGGREGATE FUNCTIONS IN THE SELECT STATEMENT UNLESS THOSE NON-AGGREGATE COLUMNS ARE INCLUDED IN A GROUP BY CLAUSE

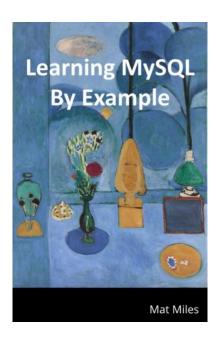
Table 1. Aggregate Functions List

Aggregate Function	Output data-type	Result
AVG([DISTINCT] column_values)	numeric	The average of the non-null columns in the expression
SUM([DISTINCT] column_values)	numeric	The total of the non-null columns in the expression
II ' I	numeric, date, string	The lowest value off the non-null columns in the expression
	numeric, date, string	The highest value of the non-null columns in the expression
COUNT([DISTINCT] column_values)	numeric	The number of the non-null columns in the expression
COUNT(*)	numeric	The number of rows returned by the query

Code Sample:

Output:







Miles, M. (2021). *Learning MySQL By Example*. EdTech Books. https://edtechbooks.org/learning_mysql