



integers

whole numbers with no decimal point

e.g. 5; 15; -200; 1,000

INTEGER

TNT

<u>numeric</u> data type	size (bytes)	<pre>minimum value (signed/unsigned)</pre>	<pre>maximum value (signed/unsigned)</pre>
TINYINT	1	-128 0	127 255
SMALLINT	2	-32,768 0	32,767 65,535
MEDIUMINT	3	-8,388,608 0	8,388,607 16,777,215
INT	4	-2,147,483,648 0	2,147,483,647 4,294,967,295
BIGINT	8	-9,223,372,036,854,775,808 0	9,223,372,036,854,775,807 18,446,744,073,709,551,615
		B. Jan	

<u>signed</u> ≠ <u>unsigned</u>

if the encompassed range includes both positive and negative values

<u>numeric</u> data type	size (bytes)	<pre>minimum value (signed/unsigned)</pre>	<pre>maximum value (signed/unsigned)</pre>
TINYINT	1	-128 0	127 255
SMALLINT	2	-32,768 0	32,767 65,535
MEDIUMINT	3	-8,388,608 0	8,388,607 16,777,215
INT	4	-2,147,483,648 0	2,147,483,647 4,294,967,295
BIGINT	8	-9,223,372,036,854,775,808 0	9,223,372,036,854,775,807 18,446,744,073,709,551,615
		B. Jan	



<u>signed</u> ≠ <u>unsigned</u>

if the encompassed range includes both positive and negative values

if integers are allowed to be only positive

<u>numeric</u> data type	size (bytes)	<pre>minimum value (signed/unsigned)</pre>	<pre>maximum value (signed/unsigned)</pre>
TINYINT	1	-128 0	127 255
SMALLINT	2	-32,768 0	32,767 65,535
MEDIUMINT	3	-8,388,608 0	8,388,607 16,777,215
INT	4	-2,147,483,648 0	2,147,483,647 4,294,967,295
BIGINT	8	-9,223,372,036,854,775,808 0	9,223,372,036,854,775,807 18,446,744,073,709,551,615
		B. Jan	

integer data types are 'signed' by default

<u>numeric</u> data type	size (bytes)	<pre>minimum value (signed/unsigned)</pre>	<pre>maximum value (signed/unsigned)</pre>
TINYINT	1	-128 0	127 256
SMALLINT	2	-32,768 0	32,767 65,535
MEDIUMINT	3	-8,388,608 0	8,388,607 16,777,215
INT	4	-2,147,483,648 0	2,147,483,647 4,294,967,295
BIGINT	8	-9,223,372,036,854,775,808 0	9,223,372,036,854,775,807 18,446,744,073,709,551,615
		B. Jan	

integer data types are 'signed' by default

if you want to use a range containing only positive, 'unsigned' values, you would have to specify this in your query

<u>numeric</u> data type	size (bytes)	<pre>minimum value (signed/unsigned)</pre>	<pre>maximum value (signed/unsigned)</pre>
TINYINT	1	-128 0	127 256
SMALLINT	2	-32,768 0	32,767 65,535
MEDIUMINT	3	-8,388,608 0	8,388,607 16,777,215
INT	4	-2,147,483,648 0	2,147,483,647 4,294,967,295
BIGINT	8	-9,223,372,036,854,775,808 0	9,223,372,036,854,775,807 18,446,744,073,709,551,615
		B. Jan	

Why not just use BIGINT all the time?

Why not just use BIGINT all the time?

e.g. if you are sure that, in a certain column, you won't need an integer smaller than 0 or greater than 100, TINYINT would do the job perfectly and you would not need more storage space per data point

Why not just use BIGINT all the time?

e.g. if you are sure that, in a certain column, you won't need an integer smaller than 0 or greater than 100, TINYINT would do the job perfectly and you would not need more storage space per data point a smaller integer type may increase the processing speed