Data Type is an attribute that specifies the type of data of any object. Each column, variable and expression has a related data type. You can use these data types while creating your tables. You can choose a data type for a table column based on your requirement.

Derby Server offers several categories of data types for your use as listed below −

Integer Numeric Data Types

Following is the list of integer numeric data types −

|  |  |  |  |
| --- | --- | --- | --- |
| **DATA TYPE** | **SIZE** | **FROM** | **TO** |
| SMALLINT | 2 bytes | -32768 | 32767 |
| INTEGER | 4 bytes | -2,147,483,648 | 2,147,483,647 |
| BIGINT | 8 bytes | -9223372036854775808 | 9223372036854775808 |

Approximate Numeric Data Types

Following is the list of approximate numeric data types −

|  |  |  |  |
| --- | --- | --- | --- |
| **DATA TYPE** | **SIZE** | **FROM** | **TO** |
| REAL | 4 bytes | -3.40E + 38 | 3.40E + 38 |
| DOUBLE PRECISION | 8 bytes | -1.79E + 308 | 1.79E + 308 |
| FLOAT |  | -1.79E + 308 | 1.79E + 308 |

Exact Numeric Data Types

Following is the list of exact numeric data types −

|  |  |  |
| --- | --- | --- |
| **DATA TYPE** | **FROM** | **TO** |
| DECIMAL | -10^38 +1 | 10^38 -1 |
| NUMERIC | -10^38 +1 | 10^38 -1 |