3. MySql – Data types

Contents

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1. Data

- ✓ Data is collection of facts.
- ✓ Facts can be values like numbers, strings, alphanumeric, symbols.
- ✓ So, every value having different data type

2. Data type

- ✓ We can create a table in database.
- ✓ Table having data in the form of rows and column.
- ✓ Each column in a table is required to have a name and a data type.
- ✓ Every column can hold the different type of data like, integer, float, character, strings, date and time etc.

3. String data types

- ✓ A group of characters is called as a String.
- ✓ To represent group of characters, String data type helps.

Data Type	Description
✓ CHAR	✓ It can store group or characters in the form of letters, numbers, and special characters as well. ✓ The column lenght is 0 to 255.
✓ VARCHAR	✓ It can store group or characters in the form of letters, numbers, and special characters as well. ✓ The column lenght is 0 to 65535.

- ✓ We do have other string data types but not much important as part of our sessions. Thanks for understanding.

4. Numeric data types

- ✓ There are two types of numeric data types.

  - o Int/integer :   Value without decimal
  - o Double   :   Value with decimal

Data Type	Description
✓ INT	✓ A number without decimal values. ✓ The column lenght is from **-** 2147483648 to **+** 2147483647
✓ FLOAT	✓ A number with decimal values.

- ✓ We do have other numeric data types but not much important as part of our sessions.

5. Date and Time data types

✓ By using these data types we can store Date and time values in table columns.

Data Type	Description
✓ DATE	✓ A date. Format: YYYY-MM-DD. ✓ The supported range is from '1000-01-01' to '9999-12-31'
✓ DATETIME	✓ A date and time combination. Format: YYYY-MM-DD hh:mm:ss. ✓ The supported range is from '1000-01-01 00:00:00' to '9999-12-31 23:59:59'.