

Task 5

Write a few lines about Data Types in SQL with examples:

The kind of data that can be placed in a table column in SQL is determined by data types. Data types supported by SQL include integer, text, date/time, and boolean kinds.

SQL data types include, for instance:

INT: A data type for integers that can store whole numbers like 1, 2, 3, etc.

VARCHAR: A text data type with variable length that can store text data up to a predetermined length, such as "John Smith."

Date: YYYY-MM-DD dates, such as "2023-03-26," are supported by the date data type.

DECIMAL: A fixed-point numeric data type that is capable of storing decimal numbers with a given accuracy and scale, such as 3.14.

Boolean: A data type that can store true or false values .

Each column's data type as well as other features like nullability, default values, and constraints must be provided when building a table in SQL. For instance, the SQL query that follows creates a table with columns that utilise several data types:

```
CREATE TABLE employees (  
    id INT PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    birthdate DATE,  
    salary DECIMAL(8,2),  
    is_manager BOOLEAN DEFAULT false  
);
```

In this example, the "employees" table has columns for ID (integer), name (variable-length string), birthdate (date), salary (decimal), and is_manager (Boolean).