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Database Management

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Data Types

Data types are sets a data with values having predefined characteristics. Some examples of data types are integer, character, and string. The data type signifies what possible values of the type and the operations that can be done on the values of that type. Most if not all programming languages require the programmer to declare a data type of every object. In database systems they require the user to specify the type of each data field. In an example database table with the topic of the table being customers with the fields customer id, name, and discount. The customer id can be string or an integer data type, but this field cannot be nullable as the customer id is the primary key and primary keys cannot be nullable. The name field should be a string data type and the discount field should be an integer data type. The name field cannot be nullable, but the discount filed can be nullable. The discount filed can be nullable as the customer could not have discount, but the name filed cannot be nullable because the customer needs a name.