**Setting up MongoDB in Cloud**

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**Step 1: Insert Document**

Graphical user interface, application

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**Step 2: Npm Install Node Modules**

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Step 3: Data Type Schema

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Step 4: Data Type Schema

**Q. Importance of schema definition and the need for schema definition for a sanitized documents in respect to MongoDB NoSQL database. Also mentions the datatypes that are available in MongoDB.**

Schema definition is very important because it defines the structure and format of data on the database. With the schema the data will be stored unorganized. This will make it difficult to query and use the elements. For sanitization purposes, the definition becomes more important due to it helping with sensitive information like personal credentials etc.

String: Used for storing text data

Integer: Used for storing whole numbers

Double: Used for storing decimal numbers

Boolean: Used for storing true/false values

Date: Used for storing date and time values

ObjectID: Used for storing unique IDs for each document in a collection

Array: Used for storing arrays of values

Binary Data: Used for storing binary data such as images or files

Null: Used for storing null values

Regular Expression: Used for storing regular expressions for pattern matching

JavaScript Code: Used for storing JavaScript code

Timestamp: Used for storing a timestamp of a document's creation

Min/Max Keys: Used for comparing values against the lowest and highest BSON elements.

Step 5: Refine Database

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Description automatically generatedStep 6: ATLAS Query MongoDB UI with ID and Customer Name

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Description automatically generated

**References**

*Data Types in MongoDB*. (n.d.). https://www.w3schools.in/mongodb/data-types

**Code:** [Acallan24/IFT598\_MID\_LABS: IFT598 Middleware Labs ASU (github.com)](https://github.com/Acallan24/IFT598_MID_LABS)