

# Inserting and Deleting Documents

You can use the MongoDB adapter to interact with a MongoDB and to insert, get and manipulate documents.

## Inserting Documents

Using one of the **insert** operations, you can insert one or more documents into a MongoDB.

The MongoDB adapter comes with two **insert** operations: one to insert a single document, the other to insert multiple documents at once.

| Name             | Type                      | Description   |
|------------------|---------------------------|---|
| <b>document</b>  | <document class>          | A single object of an xUML class representing the document structure.     |
| <b>documents</b> | Array of <document class> | An array of objects of an xUML class representing the document structure. |

Refer to the reference of the [insert operations](#) for a detailed description of all parameters and options.

## Deleting Documents

Using the **delete** operation, you can remove one or more documents from a MongoDB.

For all actions that refer to existing documents, you need to provide a query string (**queryString**) to identify them. A query string contains all properties of the document you want to use for selection.

Assume we have the following sample **Customer** document structure:

```
{
  "id": "ebd7c78b-44e0-4cbd-8164-d28431716942"
  "name": "John Snow",
  "company": "Winter & Partners",
  "address": {
    "street": "99, Malamute Street",
    "city": "Anchorage, AK 99506",
    "country": "USA"
  },
  "orderValue": "16323.00"
}
```

The simplest way to create a query string is the following:

1. Create an object having the structure of the document ( **Customer** in the example).

```
create queryData;
```

2. Set all query values to this object (the **customerID** in the example).

```
set queryData.id = customerID;
```

3. Provide this object as **queryString** by converting it to JSON using [classToExtendedJSON\(\)](#).

```
set queryString = queryData.classToExtendedJSON();
```

To build a query string, we recommend to **not** use [concat\(\)](#) operations but to create a data structure that represents the update string and can be converted to JSON with [classToExtendedJSON\(\)](#).



Building a query string manually (e.g. using [concat\(\)](#)) is susceptible to code injection.

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### MongoDBAdapter\_CustomerData\_Example



Click the icon to download a simple example model that shows the usage of the MongoDB adapter in **Scheer PAS Designer**.

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- [Updating MongoDB Documents](#)
- [Aggregating Data](#)
- [Inserting and Deleting Documents](#)
- [MongoDB Adapter Reference](#)
- [classToExtendedJSON\(\) Operation](#)



You can remove all documents from the collection by providing `{ }` as **queryString**.

Refer to reference of the [delete operations](#) for a detailed description of all other parameters and options.