Importing and Exporting Data

1. **Importing Data**

   a. Importing or exporting of any data needs to be done from outside the mongo shell.

   b. It can be performed using **mongoimport** command.

   c. We can import from JSON or CSV or TSV.

   d. If a database or collection does not exist while importing data, these will be created automatically.

   e. If a collection exists in the database, the data will be appended to the existing collection.

   f. **Syntax for Importing for JSON**

   mongoimport --db <database_name> --collection <collection_name> --file <file_path> --jsonArray

   g. Example

   mongoimport --db school --collection students --file /home/avadmin/Desktop/Mongo/crud/demo_data.json --jsonArray

   h. **Syntax for Importing CSV file.**

   mongoimport --db <database_name> --collection <collection_name> --type <json|csv|tsv> --headerline --file <file_path>

   i. Mention type as CSV. By default it is JSON.

   ii. Need to mention header line option to include first line of CSV file as field names.

   i. Example

   mongoimport --db school --collection students_csv --type csv --headerline --file /home/avadmin/Desktop/Mongo/crud/demo_csv.csv

2. **Exporting Data**

    a. Exporting to JSON.

        i. It can be performed using **mongoexport** command.

        ii. Syntax

```
mongoexport --db <database_name> --collection
<collection_name> --out <file_path>
```

        iii. Example-

```
mongoexport --db school --collection students --out
'/home/avadmin/Desktop/Mongo/crud/data_export.json'
```

    b. Export CSV file.

        i. Syntax

```
mongoexport --db <dataabse_name> --collection
<collection_name>  --type csv --fields=<fields> --out
<file_path>
```

        ii. Need to mention the type of file as CSV.

        iii. Need to provide the field names to be used in the CSV file.

        iv. Example

```
 mongoexport --db school --collection students_csv --type
csv --fields=name,age,class,state --out
'/home/avadmin/Desktop/Mongo/crud/data_export_csv.csv'
```