Cheatography

# MongoDB Cheat Sheet

by computer10 via cheatography.com/198056/cs/41859/

## JPA Annotations: SQL vs MongoDB

| SQL (JPA) | MongoDB (Spring Data MongoDB) |
| --- | --- |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

| @Entity | @Document |
| --- | --- |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

```
@Table (name = " nom e_t abe lla ")          @Docum ent (co lle ction = " nom e_c oll ezi one ")
```

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

| | |
|---|---|
| `@Id` | `@Id` |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

```
@Colum n(name = " nom e_c olo nna ")                    @Field ("no me_ cam po")
```

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

```
@Gener ate dVa lue (st rategy = Genera tio nTy pe.I DE NTI TY)
```

```
@Field (ta rge tType = FieldT ype.OB JEC T_ID )
```

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

| | |
|---|---|
| `@ManyToOne` (relazioni tra tabelle) | `@DBRef` |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

| `@OneToMany` (relazioni tra tabelle) | `@DBRef` |
| --- | --- |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

@JoinColumn(name = "nome_colonna_esterna")`` - (le relazioni sono gestite automaticamente da MongoDB)

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

| CrudRepository | MongoRepository |
| --- | --- |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

| JpaRep ository | MongoR epo sitory |
| --- | --- |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

| Entity Manager | MongoT emplate |
| --- | --- |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

```
@Query ("SELECT ...")                    @Query ("{ 'campo': 'valore' }")
```

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

| | |
|---|---|
| `@Named Queries` | - (query specifiche possono essere scritte come stringhe) |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## JPA Annotations: SQL vs MongoDB (cont)

| | |
|---|---|
| Transazioni (es. `@Trans act ional`) | Transazioni (gestite automaticamente da MongoDB) |

## Add/Edit/Delete Schema

| SQL Command | MongoDB Command |
|---|---|

## Add/Edit/Delete Schema (cont)

| | |
|---|---|
| CREATE DATABASE dbName | use [dbName] |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## Add/Edit/Delete Schema (cont)

| | |
|---|---|
| CREATE TABLE tableName (column1 datatype, column2 datatype, ...) | db.createCollection("tableName") |

## Add/Edit/Delete Schema (cont)

| | |
|---|---|
| CREATE TABLE tableName (column1 datatype, column2 datatype, ...) | db.testTable.insert({ column1Value, column2Value, ... }) |

## Add/Edit/Delete Schema (cont)

| | |
|---|---|
| CREATE INDEX idx_test ON tableName (column) | db.testTable.ensureIndex({ column: 1 }) |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## Add/Edit/Delete Schema (cont)

| | |
|---|---|
| DROP TABLE tableName | db.testTable.drop() |

## CRUD

| Insert Methods | Description |
|---|---|

## CRUD (cont)

```
db.col lec tio n.i nse rtO ne( do c ument)
```

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.
Page 18 of 100.

Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## CRUD (cont)

```
db.col lec tio n.i nse rtM any ([{}, {}])
```

## CRUD (cont)

**Read Methods**

multiple documents into a collection (requires square brackets).

## CRUD (cont)

```
db.col lec tio n.f ind (fi lter, o tions)
```

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.
Page 19 of 100.

Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## CRUD (cont)

```
db.col lec tio n.f ind One (fi lter, ptions)
```

## CRUD (cont)

**Update Methods**

**Find Methods**

first document matching the specified filter.

## CRUD (cont)

```
db.col lec tio n.u pda teO ne( fil ptions)
```

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## CRUD (cont)

```
db.col lec tio n.u pda teM any (fi lter, options)
```

## CRUD (cont)

```
db.col lec tio n.r epl ace One (fi lter, options)
```

Updates all documents that match a specified filter.

## CRUD (cont)

**Delete Methods**

Deletes at most a single document that matches a specified filter.

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## CRUD (cont)

```
db.col lec tio n.d ele teO ne( filter, options)
```

## CRUD (cont)

```
db.collectio n.d ele teM any (fi lter, options)
```

Deletes at most a single document that matches a specified filter.

## CRUD (cont)

```
db.col lec tio n.r emo ve( filter, options)
```

Deletes all documents that match a specified filter.

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.
Page 23 of 100.

Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## RDB Concepts to NO SQL

| RDBMS | MongoDB |
| --- | --- |
| Database | Database |

## RDB Concepts to NO SQL (cont)

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## RDB Concepts to NO SQL (cont)

| | |
|---|---|
| Table, View | Collection |

## RDB Concepts to NO SQL (cont)

| | |
|---|---|
| Row | Document (BSON) |

## RDB Concepts to NO SQL (cont)

| | |
|---|---|
| Column | Field |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## RDB Concepts to NO SQL (cont)

| | |
|---|---|
| Index | Index |

## RDB Concepts to NO SQL (cont)

| | |
|---|---|
| Table joins | $lookup, embedded documents |

## RDB Concepts to NO SQL (cont)

| | |
|---|---|
| Primary key | Primary key (In MongoDB, the primary key is automatically set to the _id field.) |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## RDB Concepts to NO SQL (cont)

| Foreign Key | Reference |
| --- | --- |

## RDB Concepts to NO SQL (cont)

| Partition | Shard |
| --- | --- |

## Basic Commands MongoDB

| Name | Description |
| --- | --- |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## Basic Commands MongoDB (cont)

| | |
|---|---|
| db | Show the name of the current database |

## Basic Commands MongoDB (cont)

| | |
|---|---|
| mongod | Start the database |

## Basic Commands MongoDB (cont)

| | |
|---|---|
| mongo | Connect to the database/Start the mongo shell |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.
Page 28 of 100.

Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## Basic Commands MongoDB (cont)

| | |
|---|---|
| `show dbs` | Show databases |

## Basic Commands MongoDB (cont)

| | |
|---|---|
| `use db` | Switch to a specific database |

## Basic Commands MongoDB (cont)

| | |
|---|---|
| `show collec tion s` | Display current database collections |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## Basic Commands MongoDB (cont)

| | |
|---|---|
| `help` | Get help |

By **computer10**

cheatography.com/computer10/

## Comparison Query Operators

| Name | Description |
|---|---|

Not published yet.
Last updated 28th December, 2023.
Page 30 of 100.

## Comparison Query Operators (cont)

| | |
|---|---|
| `$eq` | Matches values that are equal to a specified value. |

Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## Comparison Query Operators (cont)

`$gt` Matches values that are greater than a specified value.

## Comparison Query Operators (cont)

`$gte` Matches values that are greater than or equal to a specified value.

## Comparison Query Operators (cont)

`$in` Matches any of the values specified in an array.

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## Comparison Query Operators (cont)

`$lt` Matches values that are less than a specified value.

By **computer10**

cheatography.com/computer10/

## Comparison Query Operators (cont)

`$lte` Matches values that are less than or equal to a specified value.

Not published yet.
Last updated 28th December, 2023.


## Comparison Query Operators (cont)

`$ne` Matches all values that are not equal to a specified value.

Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## Comparison Query Operators (cont)

| | |
|---|---|
| `$nin` | Matches none of the values specified in an array. |

## Logical Query Operators

| Name | Description |
|---|---|

## Logical Query Operators (cont)

| | |
|---|---|
| `$and` | Joins query clauses with a logical AND and returns all documents that match the conditions of both clauses. |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## Logical Query Operators (cont)

| | |
|---|---|
| `$not` | Inverts the effect of a query expression and returns documents that do not match the query expression. |

## Logical Query Operators (cont)

| | |
|---|---|
| `$nor` | Joins query clauses with a logical NOR and returns all documents that fail to match both clauses. |

## Logical Query Operators (cont)

| | |
|---|---|
| `$or` | Joins query clauses with a logical OR and returns all documents that match the conditions of either clause. |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## Element Query Operators

| Name | Description |
|---|---|

## Element Query Operators (cont)

| | |
|---|---|
| `$exists` | Matches documents that have the specified field. |

## Element Query Operators (cont)

| | |
|---|---|
| `$type` | Selects documents if a field is of the specified type. For example, {field: {$type: "string"}} will return documents where the field is of type string. This operator is useful for filtering documents based on the data type of a particular field. |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

## BSON Types

| Type | Number | Alias | Notes |
|---|---|---|---|

## BSON Types (cont)

| | | | |
|---|---|---|---|
| Double | 1 | "double" | Represents a double-precision floating-point number (64 bits). |

## BSON Types (cont)

| | | | |
|---|---|---|---|
| String | 2 | "string" | Represents a UTF-8 string. |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

| BSON Types (cont) | | | |
|---|---|---|---|
| Object | 3 | "object" | Represents a nested BSON document. |

| BSON Types (cont) | | | |
|---|---|---|---|
| Array | 4 | "array" | Represents an ordered list of values. |

| BSON Types (cont) | | | |
|---|---|---|---|
| Binary data | 5 | "binData" | Represents binary data. |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

| BSON Types (cont) | | | |
|---|---|---|---|
| Undefined | 6 | "undefined" (Deprecated) | Deprecated and no longer used. |

| BSON Types (cont) | | | |
|---|---|---|---|
| ObjectId | 7 | "objectId" | Represents a 12-byte identifier typically employed as a unique identifier for documents. |

| BSON Types (cont) | | | |
|---|---|---|---|
| Boolean | 8 | "bool" | Represents a boolean value (true or false). |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

| BSON Types (cont) | | | |
|---|---|---|---|
| Date | 9 | "date" | Represents a 64-bit integer timestamp, indicating a specific moment in time. |

| BSON Types (cont) | | | |
|---|---|---|---|
| Null | 10 | "null" | Represents a null value. |

| BSON Types (cont) | | | |
|---|---|---|---|
| Regular Expression | 11 | "regex" | Represents a regular expression. |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

| BSON Types (cont) | | | |
|---|---|---|---|
| DBPointer | 12 | "dbPointer" (Deprecated) | Deprecated and no longer used. |

| BSON Types (cont) | | | |
|---|---|---|---|
| JavaScript | 13 | "javascript" | Represents JavaScript code. |

| BSON Types (cont) | | | |
|---|---|---|---|
| Symbol | 14 | "symbol" (Deprecated) | Deprecated and no longer used. |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

| BSON Types (cont) | | | |
|---|---|---|---|
| JavaScript code with scope | 15 | "javascriptWithScope" (Deprecated in MongoDB 4.4) | Deprecated and no longer used in MongoDB 4.4 onwards. |

| BSON Types (cont) | | | |
|---|---|---|---|
| 32-bit integer | 16 | "int" | Represents a 32-bit integer. |

| BSON Types (cont) | | | |
|---|---|---|---|
| Timestamp | 17 | "timestamp" | Represents a timestamp, typically used for insertion operations. |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

| BSON Types (cont) | | | |
|---|---|---|---|
| 64-bit integer | 18 | "long" | Represents a 64-bit integer. |

| BSON Types (cont) | | | |
|---|---|---|---|
| Decimal 128 | 19 | "decimal" | Represents a 128-bit decimal value. |

| BSON Types (cont) | | | |
|---|---|---|---|
| Min key | -1 | "minKey" | Represents the smallest BSON element value. |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.
Page 42 of 100.

Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com

| BSON Types (cont) | | | |
|---|---|---|---|
| Max key | 127 | "maxKey" | Represents the largest BSON element value. |

By **computer10**

cheatography.com/computer10/

Not published yet.
Last updated 28th December, 2023.


Sponsored by **ApolloPad.com**
Everyone has a novel in them. Finish Yours!
https://apollopad.com