

MONGODB

RDBMS	MONGODB
Database	Database
Tables	Collection
Rows	Document
columns	Fields or keys

How to create database in MongoDB

Step1: `show db_name` and here Practicing name of database is `latest_db`

How to create collections/table in MongoDB

step2: `db.students.insertOne()` or Only first create collection
`db.createCollection(collection_name)`

`students` is collections.

How to add data in collection or table in MongoDB

step3:

```
db.students.insertOne(key1:"value1",key2:"value2",key3:"value3")
```

```
latest_db> db.students.insertOne({name:"ram",age:12})
{
  acknowledged: true,
  insertedId: ObjectId('6624fb36b344bd7089117b7b')
}
latest_db> db.students.insertOne({name:"shyam",age:12})
{
  acknowledged: true,
  insertedId: ObjectId('6624fb70b344bd7089117b7c')
}
latest_db> db.students.insertOne({name:"Prithwi",age:10})
{
  acknowledged: true,
  insertedId: ObjectId('6624fbacb344bd7089117b7d')
}
```

How to show database collection or table ,which is insert above in MongoDB

Step4: `db.students.find()`

```
latest_db> db.students.find();
[
  { _id: ObjectId('6624fb36b344bd7089117b7b'), name: 'ram', age: 12 },
  { _id: ObjectId('6624fb70b344bd7089117b7c'), name: 'shyam', age: 12 },
  {
    _id: ObjectId('6624fbacb344bd7089117b7d'),
    name: 'Prithwi',
    age: 10
  }
]
```

How to update database>collection or table with Nesting document limit MongoDB

Step5: `db.students.updateOne({name:"Ram"},`

`{ $set: { idCards: {`

`hasPanCard: false, hasAadharCard: true`

`}}})`

What is `$set`

`$set` is an update operator in MongoDB that modifies the value of a field in a document. It allows you to update specific fields within a document without overwriting the entire document.

For example-

if you have a document with fields `name`, `age`, and `address`, and you want to update only the `address` field, you can use `$set` to modify just that field while leaving the other fields unchanged.

how you would use `$set` in an update operation : CLI

```
db.collection.updateOne(  
  { <query> },  
  { $set: { <field1>: <value1>, <field2>: <value2>, ... } }  
)
```

```
latest_db> db.students.updateOne({name:"Ram"},{$set:{idCards:{hasPanCard:false,hasAadharCard:true}}})  
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 0,  
  modifiedCount: 0,  
  upsertedCount: 0  
}
```

How to find updated collection's field's value ??

Step6: `db.students.findOne({name:'ram'})`

```
latest_db> db.students.findOne({name:'ram'})  
{  
  _id: ObjectId('6624fb36b344bd7089117b7b'),  
  name: 'ram',  
  age: 12,  
  idCard: { hasPanCard: false, hasAadharCard: true }  
}
```

How to update collection's all field's value ??

Step7: