

# What we will learn today?

From Arif

- Database(MongoDB)
- How to create and store data
- How to read, update and delete data from database(CRUD)
- Difference between DB, dataset or spreadsheet



### QUICK TIP

Lets have a quick search  
about what is database  
exactly and when we  
need this or not?

(10 mins)

# What is Database



**DBMS**

**Relational Database**

**Non-Relational Database**





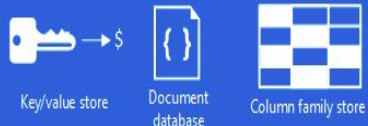
**SQL**

VS

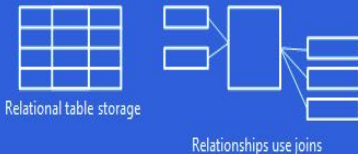


**NoSQL**

**NoSQL**



**SQL**



**SQL**



**Relational Data Model**

- Pros**
- › Easy to use and setup.
  - › Universal, compatible with many tools.
  - › Good at high-performance workloads.
  - › Good at structure data.

- Cons**
- › Time consuming to understand and design the structure of the database.
  - › Can be difficult to scale.

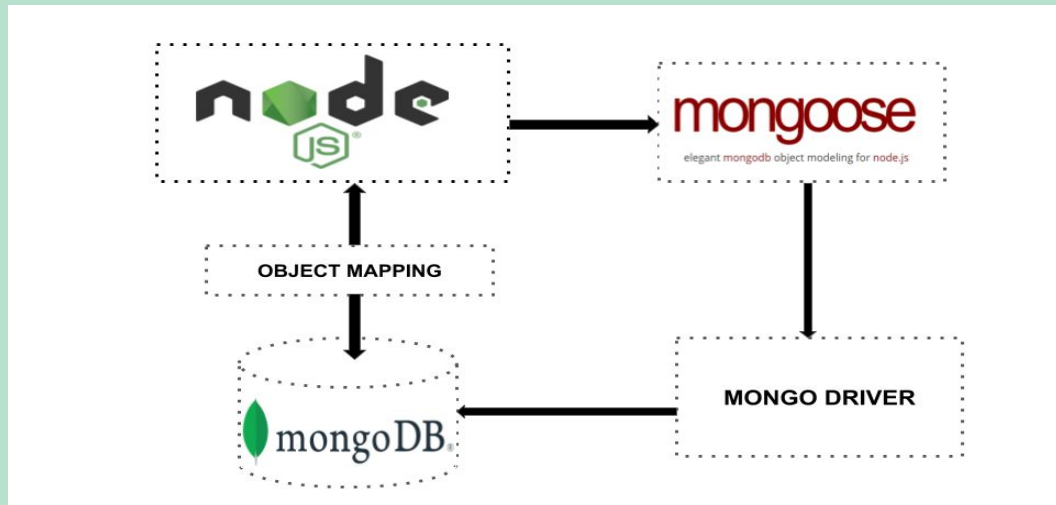
**No SQL**



**Document Data Model**

- Pros**
- › No investment to design model.
  - › Rapid development cycles.
  - › In general faster than SQL.
  - › Runs well on the cloud.

- Cons**
- › Unsited for interconnected data.
  - › Technology still maturing.
  - › Can have slower response time.



user document

```
{  
  _id: <ObjectId1>,  
  username: "123xyz"  
}
```

contact document

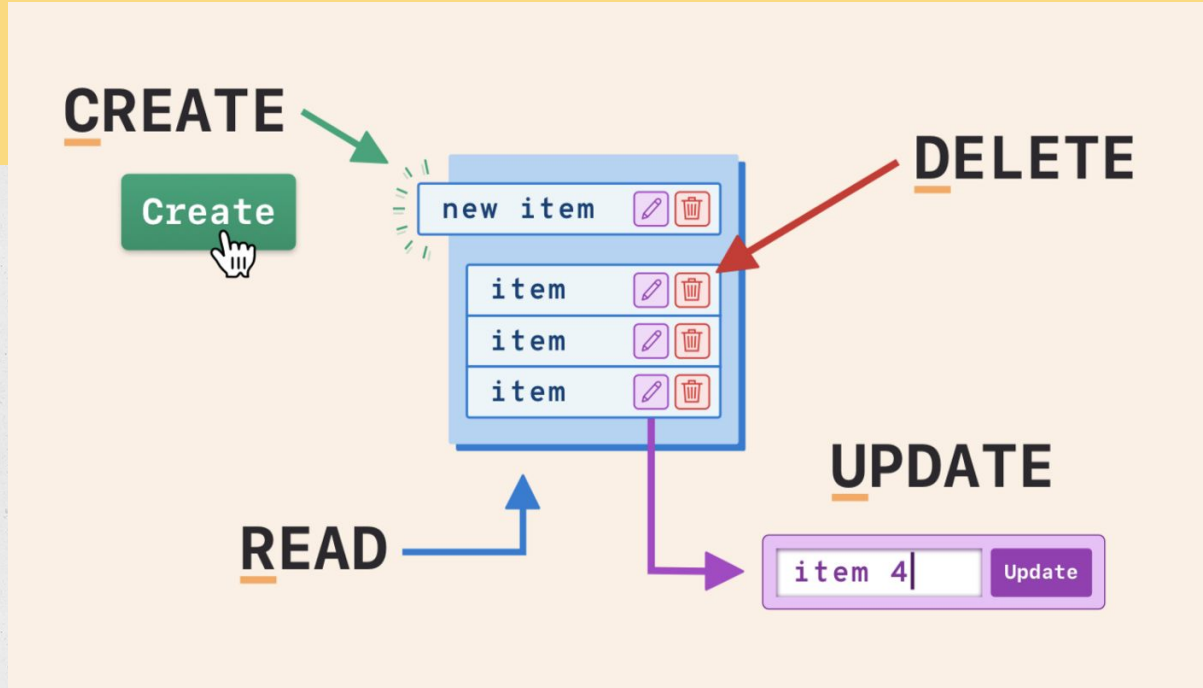
```
{  
  _id: <ObjectId2>,  
  user_id: <ObjectId1>,  
  phone: "123-456-7890",  
  email: "xyz@example.com"  
}
```

access document

```
{  
  _id: <ObjectId3>,  
  user_id: <ObjectId1>,  
  level: 5,  
  group: "dev"  
}
```

## Steps:

- Signup mongodb cloud and get the access info
- C-Create your first MODEL and create a schema, save it in DB
- R- READ saved data back all of it
- U- Update existing data
- D- Delete existing data (CRUD)



Questions?