

Internship at Workik Assignment

(Configuring Multiple Databases)

MySQL Code: (Since both MySQL and PostgreSQL are both SQL databases, and since I have MySQL installed, I chose this)

```
drop database workik;
create database workik;
use workik;

drop table if exists demo;
create table demo(full_name varchar(20), age int(3));

-- Create
insert into demo(full_name, age) values("Rohith Boppey", 22);
insert into demo(full_name, age) values("Jaswanth Boppey", 32);
insert into demo(full_name, age) values("Ramesh Boppey", 52);
-- Read
select full_name as second_child from demo where full_name = "Rohith Boppey";
-- Update
update demo set full_name = "Updated Name" where full_name = "Rohith Boppey";
-- Delete
delete from demo where full_name = "Jaswanth Boppey";
select * from demo;
```

Results:

	second_child
▶	Rohith Boppey

	full_name	age
▶	Updated Name	22
	Ramesh Boppey	52

MongoDB:

Create a database and a collection for our data

```
// CREATE A NEW DATABASE
use demo;

// CREATE A NEW COLLECTION
db.createCollection("first");
```

```
// INSERT INTO A COLLECTION
db.first.insertMany([
  {
    name: "Rohith Boppey",
    age: 22,
    desc: "I am interested to work in Workik"
  },
  {
    name: "Jaswanth Boppey",
    age: 25,
    desc: "I am interested to work in Workik"
  }
]);
```

```
> db.createCollection("first");  
< { ok: 1 }
```

```
> db.first.find();  
< {  
  _id: ObjectId("64fcb6c7903ef7881479ca2d"),  
  name: 'Rohith Boppey',  
  age: 22,  
  desc: 'I am interested to work in Workik'  
}  
{  
  _id: ObjectId("64fcb6c7903ef7881479ca2e"),  
  name: 'Jaswanth Boppey',  
  age: 25,  
  desc: 'I am interested to work in Workik'  
}
```

```
// UPDATE FROM DATABASE
```

```
db.first.updateOne(  
  {age: 22},  
  {  
    $set: {age: 23, name: "Updated to Rohith Boppey"}  
  }  
);  
db.first.find();
```

```
db.first.find();
< {
  _id: ObjectId("64fcb6c7903ef7881479ca2d"),
  name: 'Updated to Rohith Boppey',
  age: 23,
  desc: 'I am interested to work in Workik'
}
{
  _id: ObjectId("64fcb6c7903ef7881479ca2e"),
  name: 'Jaswanth Boppey',
  age: 25,
  desc: 'I am interested to work in Workik'
}
```

```
// DELETE FROM DATABASE
db.first.deleteMany(
  {
    age: 23
  }
);
db.first.find();
```

```
db.first.find();
< {
  _id: ObjectId("64fcb6c7903ef7881479ca2e"),
  name: 'Jaswanth Boppey',
  age: 25,
  desc: 'I am interested to work in Workik'
}
```

Elasticsearch:

```
# get cluster health  
GET /_cluster/health
```

```
{  
  "cluster_name": "elasticsearch",  
  "status": "green",  
  "timed_out": false,  
  "number_of_nodes": 1,  
  "number_of_data_nodes": 1,  
  "active_primary_shards": 23,  
  "active_shards": 23,  
  "relocating_shards": 0,  
  "initializing_shards": 0,  
  "unassigned_shards": 0,  
  "delayed_unassigned_shards": 0,  
  "number_of_pending_tasks": 0,  
  "number_of_in_flight_fetch": 0,  
  "task_max_waiting_in_queue_millis": 0,  
  "active_shards_percent_as_number": 100  
}
```

```
# creating a new table  
PUT student
```

```
{  
  "acknowledged": true,  
  "shards_acknowledged": true,  
  "index": "student"  
}
```

```
# adding entries into the index/table  
POST student/_doc
```

```
{  
  "name": "Rohith Boppey",  
  "age": 22,  
  "gender": "Male"  
}
```

```
1 {  
2   "_index": "student",  
3   "_id": "PANYiIoBi7XsPiU32ZTO",  
4   "_version": 1,  
5   "result": "created",  
6   "_shards": {  
7     "total": 2,  
8     "successful": 1,  
9     "failed": 0  
10  },  
11   "_seq_no": 0,  
12   "_primary_term": 1  
13 }
```

```
# update an exisiting student
post student/_update/PANYiIoBi7XsPiU32ZTO
{
  "doc": {
    "name" : "Rohith Boppey Updated"
  }
}
```

```
,
{
  "_index": "student",
  "_id": "PANYiIoBi7XsPiU32ZTO",
  "_score": 1,
  "_source": {
    "name": "Rohith Boppey Updated",
    "age": 22,
    "gender": "Male"
  }
}
```

```
# delete an exisiting student
delete student/_doc/PANYiIoBi7XsPiU32ZTO
```

```
{
  "_index": "student",
  "_id": "PANYiIoBi7XsPiU32ZTO",
  "_version": 3,
  "result": "deleted",
  "_shards": {
    "total": 2,
    "successful": 1,
    "failed": 0
  },
  "_seq_no": 3,
  "_primary_term": 1
}
```

```
# get cluster health
GET /_cluster/health

# creating a new table or index
PUT student

# adding entries into the index/table
POST student/_doc
{
  "name": "Rohith Boppey",
  "age": 22,
  "gender": "Male"
}
```

```
POST student/_doc
{
  "name": "Jaswanth Boppey",
  "age": 25,
  "gender": "Male"
}

# retrieve all students
get student/_search
```

```
# update an exisiting student
post student/_update/PANYiIoBi7XsPiU32ZT0
{
  "doc": {
    "name" : "Rohith Boppey Updated"
  }
}

# delete an exisiting student
delete student/_doc/PANYiIoBi7XsPiU32ZT0
```