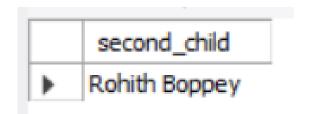
Internship at Workik Assignment

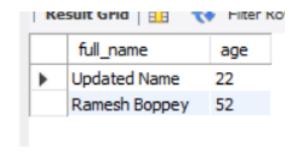
(Configuring Multiple Databases)

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:





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 }</pre>
```

```
> 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'
}</pre>
```

```
// 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'
}
```

```
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 - {
      "_index": "student",
2
      "_id": "PANYiIoBi7XsPiU32ZTO",
3
4
      " version": 1,
      "result": "created",
5
6 +
      " shards": {
       "total": 2,
7
        "successful": 1,
8
        "failed": 0
9
L0 -
      "_seq_no": 0,
L1
      "_primary_term": 1
L2
L3 * }
```

```
{
    "_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/PANYiIoBi7XsPiU32ZTO
{
    "doc": {
        "name" : "Rohith Boppey Updated"
    }
}
# delete an exisiting student
delete student/_doc/PANYiIoBi7XsPiU32ZTO
```