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Date: 09/04/2021
Spring Boot 9AM
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Mr. RAGHU MongoDB - Spring Boot Primitive Data: -Variable in class --- key that holds single value in Document Collection Data: -List/Set/Array variable in class - key that holds multiple values key : [val, val, val,] Map:key : { mapKey : mapVal, mapKey : mapVal Association Mapping: - ClassType In this case on inner JSON Document is created. That looks format: hasAVariable behaves like a key and child object behaves as like Inner JSON. hasAVariable : { variable : value *) INNER JSON also called as Embedded Document. Finally one JSON Document that contains all child JSONS is created. They are not re-usable, repeated data. Employee---<>Address eid aid ename lod addr

Download Link:

}

"eid" : 10,
"ename" : "SAM",

"addr" : {

}

"aid" : 100, "loc" : "HYD"

```
https://robomongo.org/
> Click on Download Studio 3T Only
> Extract Zip to Folder > Double click to install
> next > next > Finish
> Start Robo Studio 3T > Click on Connect > new Connection
> Enter name > save > Click on Cnnect Buttion
> Expan Database and choose collection > press enter
> use Query Builder tool for easy search
1. models
package in.nareshit.raghu.model;
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
@Data
@NoArgsConstructor
@AllArgsConstructor
public class Department {
       private String deptCode;
       private String deptName;
}
package in.nareshit.raghu.model;
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
@Data
@NoArgsConstructor
@AllArgsConstructor
public class Address {
       private String hno;
       private String loc;
       private Long pinCode;
}
package in.nareshit.raghu.model;
import java.util.List;
import java.util.Map;
import java.util.Set;
//ctrl+shift+0
import org.springframework.data.annotation.Id;
import org.springframework.data.mongodb.core.mapping.Document;
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
```

```
@Data
@Document
@NoArgsConstructor
@AllArqsConstructor
public class Employee {
        @Id
        private Integer empId;
        private String empName;
        private Double empSal;
        private Set<String> empPrjs;
        private List<String> empPrjVer;
        private String[] empGrades;
        private Map<String, String> empClient;
        private Address addr; //HAS-A
        private List<Department> dobs; //HAS-A
}
2. Repository Inteface
package in.nareshit.raghu.repo;
import org.springframework.data.mongodb.repository.MongoRepository;
import in.nareshit.raghu.model.Employee;
public interface EmployeeRepository
        extends MongoRepository<Employee, Integer> {
_____
3. Runner class
package in.nareshit.raghu.runner;
import java.util.List;
import java.util.Map;
import java.util.Set;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;
import in.nareshit.raghu.model.Address;
import in.nareshit.raghu.model.Department;
import in.nareshit.raghu.model.Employee;
import in.nareshit.raghu.repo.EmployeeRepository;
@Component
public class DataInsertRunner implements CommandLineRunner {
        @Autowired
        private EmployeeRepository repo;
```

```
public void run(String... args) throws Exception {
                repo.deleteAll();
                repo.save(
                                 new Employee(
                                                  10, "SAM", 200.0,
Set.of("HTC","NIT","ORCL"),
                                                  List.of("3.2GA","6.5
RELEASE", "0.1 ALPHA"),
                                                  new String[]
{"A+", "GR-T", "UI-NEW"},
                                                  Map.of("C1","TEC-
N", "C2", "US-ARMY", "C3", "JANSON & JANSON"),
                                                  new Address ("8-9/A",
"HYD", 500032L),
                                                  List.of(
new Department("D1", "DEV-AB"),
new Department("D2", "QA-RB"),
new Department("D3", "SUPRT-MN")
                                                                   )
                                                  )
                                 );
        }
     ______
4. application.properties
spring.data.mongodb.host=localhost
spring.data.mongodb.port=27017
spring.data.mongodb.database=nit
5. Output:
        " id" : 10,
        "empName" : "SAM",
        "empSal" : 200,
        "empPrjs" : [
                "ORCL",
                 "NIT",
                "HTC"
        "empPrjVer" : [
                "3.2GA",
                 "6.5 RELEASE",
                "0.1 ALPHA"
        "empGrades" : [
                "A+",
                "GR-T",
                "UI-NEW"
        "empClient" : {
```

```
"C3" : "JANSON & JANSON",
        "C2" : "US-ARMY",
"C1" : "TEC-N"
} ,
"addr" : {
        "hno": "8-9/A",
        "loc" : "HYD",
        "pinCode" : NumberLong(500032)
},
"dobs" : [
        {
                 "deptCode" : "D1",
                 "deptName" : "DEV-AB"
        },
         {
                 "deptCode" : "D2",
                 "deptName" : "QA-RB"
        },
                 "deptCode" : "D3",
                 "deptName" : "SUPRT-MN"
        }
" class" : "in.nareshit.raghu.model.Employee"
```

}