NoSQL Assignment- SpringBoot with couchbase
Submitted by- Saachi

Ques-1 **Employee Controller - adding employees, getting employees based on their location and pincode**

GET /Employees/pincode/{pincode} `findBypincode`

Response Class (Status 200)
OK

Model | **Example Value**

```
[
  {
    "emailAddress": "string",
    "employeeId": "string",
    "firstName": "string",
    "jobTitleName": "string",
    "lastName": "string",
    "location": "string",
    "phoneNumber": "string",
    "pincode": "string"
  }
]
```

Response Content Type `application/json ∨`

Parameters

Parameter	Value	Description	Parameter Type	Data Type
pincode	346757	pincode	path	string

Try it out!   Hide Response

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:8080/Employees/pincode/346757'
```

Request URL

```
http://localhost:8080/Employees/pincode/346757
```

Request Headers

```
{
  "Accept": "application/json"
}
```

Response Body

```
[
  {
    "employeeId": "ep102",
    "firstName": "Rohit",
    "lastName": "Sharma",
    "jobTitleName": "Developer",
    "location": "Delhi",
    "pincode": "346757",
    "emailAddress": "rohit@gmail.com",
    "phoneNumber": "3249867803"
```

Response Class (Status 200)
OK

Model | Example Value

```
{
  "emailAddress": "string",
  "employeeId": "string",
  "firstName": "string",
  "jobTitleName": "string",
  "lastName": "string",
  "location": "string",
  "phoneNumber": "string",
  "pincode": "string"
}
```

Response Content Type [application/json ▼]

Parameters

Parameter	Value	Description	Parameter Type	Data Type

newEmployee	`"jobTitleName": "engineer",`
	`"lastName": "raheja",`
	`"location": "delhi",`
	`"phoneNumber": "4598709700",`
	`"pincode": "567432"`
		newEmployee	body	Model | Example Value
				`{`
				`  "emailAddress": "string",`
				`  "employeeId": "string",`
				`  "firstName": "string",`
				`  "jobTitleName": "string",`
				`  "lastName": "string",`
				`  "location": "string",`
				`  "phoneNumber": "string",`
				`  "pincode": "string"`
				`}`

Parameter content type: [application/json ▼]

[Try it out!] Hide Response

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "emailAddress": "saachi%40gmail.com", \
  "employeeId": "emp101", \
  "firstName": "saachi", \
  "jobTitleName": "engineer", \
  "lastName": "raheja", \
  "location": "delhi", \
  "phoneNumber": "4598709700", \
  "pincode": "567432" \
}' 'http://localhost:8080/Employees'
```

	id	
✏ ⧉ 🗑 🗎	emp101	{"firstName":"saachi","lastName":"raheja","jobTitleName":"engineer","pincode":"567432","emailAddress":"saachi@gmail.com","phoneNumber":"4598709700","location":"delhi","_class":"com.saachi.employeeexam...
✏ ⧉ 🗑 🗎	ep102	{"firstName":"Rohit","lastName":"Sharma","jobTitleName":"Developer","pincode":"346757","emailAddress":"rohit@gmail.com","phoneNumber":"3249867803","location":"Delhi","_class":"com.saachi.employeeexamp...

Ques-2 Multiple tags in the BlogController and search based on the tags

Created by abhisek.nandan@accolitedigital.com
License of API

blog-controller : Blog Controller

Show/Hide | List Operations | Expand Operations

| GET | /blogs | getBlogByTag |

Response Class (Status 200)
OK

Model | Example Value

```
[
  {
    "author": "string",
    "date": "2021-01-13T14:49:31.945Z",
    "id": "string",
    "tags": [
      "string"
    ],
    "topic": "string"
  }
]
```

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type
tag	horror	tag	query	string

Try it out! Hide Response

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:8080/blogs?tag=horror'
```

Request URL

```
http://localhost:8080/blogs?tag=horror
```

Request Headers

```
{
  "Accept": "application/json"
}
```

Response Body

```
[
  {
    "id": "blogpost101",
    "topic": "story",
    "author": "123",
    "tags": [
      "horror"
    ],
    "date": "2021-01-08T20:02:24.286+00:00"
  }
]
```

cricket-controller : Cricket Controller

Show/Hide | List Operations | Expand Operations

POST /CricketMatch   addCricketPlayer

Response Class (Status 200)
OK

Model | Example Value

```
{
  "averageRuns": "string",
  "country": "string",
  "noOfRuns": "string",
  "noOfWickets": "string",
  "playerId": "string",
  "playerName": "string"
}
```

Response Content Type application/json ▼

Parameters

Parameter	Value	Description	Parameter Type	Data Type

newCricketMatch	"averageRuns": "57.6",
	"country": "India",
	"noOfRuns": "6456",
	"noOfWickets": "38",
	"playerId": "p201",
	"playerName": "Dhoni"
	}
		newCricketMatch	body	Model | Example Value
				
				{
				  "averageRuns": "string",
				  "country": "string",
				  "noOfRuns": "string",
				  "noOfWickets": "string",
				  "playerId": "string",
				  "playerName": "string"
				  }

Parameter content type: application/json ▼

Try it out! Hide Response

Bucket show top keys   Limit ⓘ   Offset ⓘ   Document ID ⓘ   show range   N1QL WHERE ⓘ

CricketMatchDetails ▼   10   0   optional...   optional...

3 Results for *CricketMatchDetails, limit: 10, offset: 0*   ⊙ enable field editing

	id	
✏ ⧉ 🗑 💾	p106	{"noOfWickets":"556","country":"india","playerName":"virat","averageRuns":"50.4","noOfRuns":"49874","_class":"com.saachi.cricketexample.model.CricketMatch"}
✏ ⧉ 🗑 💾	p110	{"noOfWickets":"67","country":"USA","playerName":"Chris","averageRuns":"38.5","noOfRuns":"4545","_class":"com.saachi.cricketexample.model.CricketMatch"}
✏ ⧉ 🗑 💾	p201	{"noOfWickets":"38","country":"India","playerName":"Dhoni","averageRuns":"57.6","noOfRuns":"6456","_class":"com.saachi.cricketexample.model.CricketMatch"}

cricket-controller : Cricket Controller

Show/Hide | List Operations | Expand Operations

| GET | /CricketMatch | runsGreaterthan |

Response Class (Status 200)
OK

Model | Example Value

```
[
  {
    "averageRuns": "string",
    "country": "string",
    "noOfRuns": "string",
    "noOfWickets": "string",
    "playerId": "string",
    "playerName": "string"
  }
]
```

Response Content Type [application/json ▾]

Parameters

Parameter	Value	Description	Parameter Type	Data Type
noOfRuns	4000	noOfRuns	query	string

Try it out! Hide Response

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:8080/CricketMatch?noOfRuns=4000'
```

Request URL

```
http://localhost:8080/CricketMatch?noOfRuns=4000
```

Request Headers

```
{
  "Accept": "application/json"
}
```

Response Body

```
[
  {
    "playerId": "p106",
    "playerName": "virat",
    "averageRuns": "50.4",
    "noOfRuns": "49874",
    "noOfWickets": "556",
    "country": "india"
  },
  {
    "playerId": "p110",
    "playerName": "Chris",
```

Response Content Type [application/json ▼]

Parameters

Parameter	Value	Description	Parameter Type	Data Type
noOfRuns	4000	noOfRuns	query	string

[Try it out!] Hide Response

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:8080/CricketMatch?noOfRuns=4000'
```

Request URL

```
http://localhost:8080/CricketMatch?noOfRuns=4000
```

Request Headers

```
{
  "Accept": "application/json"
}
```

Response Body

```
      "averageRuns": "50.4",
      "noOfRuns": "49874",
      "noOfWickets": "556",
      "country": "india"
    },
    {
      "playerId": "p110",
      "playerName": "Chris",
      "averageRuns": "38.5",
      "noOfRuns": "4545",
      "noOfWickets": "67",
      "country": "USA"
    },
    {
      "playerId": "p201",
      "playerName": "Dhoni",
      "averageRuns": "57.6",
      "noOfRuns": "6456",
      "noOfWickets": "38",
      "country": "India"
```

Ques-4 Remove primary index and add a particular index

Query Editor < history (24/24) >

```
1  CREATE INDEX playerName_index ON CricketMatchDetails(playerName) USING GSI;
```

Execute Explain External Query Advisor ✔ success just now | elapsed: 3.5s | execution: 3.5s ≡ format

Query Results Table JSON Tree Plan Plan Text

```
1 ▾ {
2    "results": []
3  }
```

Data Insights

Queryable Buckets

CricketMatchDetails sampled 3 of 3
▸ `_class` = "com.saachi.cricketexamp
▸ Indexes

EmployeeDetails sampled 2 of 2
▸ `_class` = "com.saachi.employeeexa
▸ Indexes

couchbasedemo sampled 4 of 4
▸ `id` = "d08012021", `name` = "first
▸ `_class` = "com.example.au.couchba
▸ Indexes

```
1    Drop index CricketMatchDetails.idx_primary_cmd;
```

Execute Explain External Query Advisor ✔ success 1 min ago | e

Query Results

```
1 ▾ {
2    "results": []
3  }
```