## **Analysis of Books**

1. Read all documents from the books collection where "tags" array contains 'database' element.

2. List out all documents from books collection where author's profile contains exactly 2 courses.

3. List out all documents from books collection where tags array is exactly equal to ['language','freeware','programming']

4. List out all documents from books collection where tags array contains 'programming'

```
Select * from books where ARRAY_CONTAINS(books.tags, 'programming')

1 - 3

{
    "title": "Java in simple way",
    "isbn": 1122,
    "downloadable": true,
    "no_of_reviews": 2,
    "tags": [
        "language",
        "freeware",
        "programming"
    ],
    "languages": [
        "english",
        "hindi",
        "telugu"
```

5. List out all documents from books collection where language array contains 'telugu'

```
Select * from books where ARRAY_CONTAINS(books.languages, 'telugu')

1-6

{
    "title": "Linux in simple way",
    "isbn": 6677,
    "downloadable": false,
    "no_of_reviews": 1,
    "tags": [
        "os",
        "freeware",
        "shell programming"
    ],
    "languages": [
        "english",
        "hindi",
        "telugu"
```

6. List out all documents present in books collection

```
Select * from books

1-7

{
    "title": "Linux in simple way",
    "isbn": 6677,
    "downloadable": false,
    "no_of_reviews": 1,
    "tags": [
        "os",
        "freeware",
        "shell programming"
    ],
    "languages": [
        "english",
        "hindi",
        "telugu"
```

7. Find total number of documents present in books collection

8. List out first document present in books collection

10. Select all documents where either no\_of\_reviews > 3 or tags array contains programming element

```
Select * from books where books.no of reviews > 3 or ARRAY CONTAINS(books.tags,
'programming')
   1 - 4
            "title": "Java in simple way",
            "isbn": 1122,
             "downloadable": true,
             "no_of_reviews": 2,
            "tags": [
                "language",
                "freeware",
                "programming"
            ],
             "languages": [
                "english",
                "hindi",
                "telugu"
```

11. Select all documents where either no\_of\_reviews < 3 or downloadable is true or author profile contains at least 2 books.

```
Select * from books where books.no_of_reviews < 3 or books.downloadable = true or
books.author.profile.books > 1
```

```
[
    "title": "Linux in simple way",
    "isbn": 6677,
    "downloadable": false,
    "no_of_reviews": 1,
    "tags": [
        "os",
        "freeware",
        "shell programming"
],
    "languages": [
        "english",
        "hindi",
        "telugu"
]
```

12. Select all documents where either no\_of\_reviews > 3.

```
Select * from books where books.no_of_reviews > 3
1-2

{
    "title": "Python in simple way",
    "isbn": 1234,
    "downloadable": false,
    "no_of_reviews": 5,
    "tags": [
        "language",
        "freeware",
        "programming"
    ],
    "languages": [
        "english",
        "hindi",
        "telugu"
```

13. Select all documents where tags array contains only one element 'programming'

14. Select all documents where tags array is ['language', 'freeware', 'programming']

```
Select * from books where books.tags = ['language','freeware','programming']
1-2

{
    "title": "Java in simple way",
    "isbn": 1122,
    "downloadable": true,
    "no_of_reviews": 2,
    "tags": [
        "language",
        "freeware",
        "programming"
    ],
    "languages": [
        "english",
        "hindi",
        "telugu"
}
```

15. Select all documents where no\_of\_reviews not equal to 3

16. Select all documents where no of reviews is less than 3

```
Select * from books where books.no of reviews < 3</pre>
 1 - 3
   [
           "title": "Linux in simple way",
           "isbn": 6677,
           "downloadable": false,
           "no of reviews": 1,
           "tags": [
               "os",
               "freeware",
               "shell programming"
           ],
           "languages": [
               "english",
               "hindi",
               "telugu"
```

17. Select all documents where no\_of\_reviews is greater than equal to 3 and downloadable is true

18. Select all documents where tags array contains either database or programming