NOSQL COSMOSDB ASSIGNMENT:

QUESTION:

Select the records where the tags contains database.

QUERY:

```
SELECT * FROM c where ARRAY_CONTAINS(c.tags,'database')
```

OUTPUT:

```
[
    {
        "title": "MongoDB in simple way",
        "isbn": 6677,
        "downloadable": true,
        "no_of_reviews": 4,
        "tags": [
            "database",
            "cloud",
            "nosql"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Sachin Tendulkar",
            "callname": "Sachin",
            "profile": {
                "exp": 6,
                "courses": 7,
                "books": 8
            }
        },
        "id": "e962fcd9-2774-4b05-93c9-9dd2b3125713",
        "_rid": "dchmANwZKj4FAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4FAAAAAAAAAA==/",
```

        "_etag": "\"0a02aadc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306

    },

    {

        "title": "Oracle in simple way",

        "isbn": 6677,

        "downloadable": true,

        "no_of_reviews": 3,

        "tags": [

            "database",

            "sql",

            "relational"

        ],

        "languages": [

            "english",

            "hindi",

            "telugu"

        ],

        "author": {

            "name": "Virat Kohli",

            "callname": "kohli",

            "profile": {

                "exp": 2,

                "courses": 2,

                "books": 2

            }

        },

        "id": "28a72e5b-2e28-4b11-a46f-a61f71d04041",

        "_rid": "dchmANwZKj4GAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4GAAAAAAAAAA==/",

        "_etag": "\"0a02abdc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306

    }

]

2)

<u>QUESTION:</u>

Select the records where the courses are exactly 2

<u>QUERY:</u>

```
SELECT * FROM c WHERE c.author.profile.courses = 2
```

<u>OUTPUT :</u>

```
[
    {
        "title": "Java in simple way",
        "isbn": 1122,
        "downloadable": true,
        "no_of_reviews": 2,
        "tags": [
            "language",
            "freeware",
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Karhik Ramachandran",
            "callname": "Karthik",
            "profile": {
                "exp": 1,
                "courses": 2,
                "books": 3
            }
        },
        "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",
```

```json
        "_rid": "dchmANwZKj4CAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",

        "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
    },
    {
        "title": "Oracle in simple way",

        "isbn": 6677,

        "downloadable": true,

        "no_of_reviews": 3,

        "tags": [

            "database",

            "sql",

            "relational"

        ],

        "languages": [

            "english",

            "hindi",

            "telugu"

        ],

        "author": {

            "name": "Virat Kohli",

            "callname": "kohli",

            "profile": {

                "exp": 2,

                "courses": 2,

                "books": 2

            }

        },

        "id": "28a72e5b-2e28-4b11-a46f-a61f71d04041",

        "_rid": "dchmANwZKj4GAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4GAAAAAAAAAA==/",

        "_etag": "\"0a02abdc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",
```

```
            "_ts": 1679389306
        }
]
```

3)

Select the records where tags exactly contains `"language","freeware","programming"`.

QUERY:

```sql
SELECT * FROM c where c.tags = ["language","freeware","programming"]
```

OUTPUT:

```json
[
    {
        "title": "Java in simple way",
        "isbn": 1122,
        "downloadable": true,
        "no_of_reviews": 2,
        "tags": [
            "language",
            "freeware",
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Karhik Ramachandran",
            "callname": "Karthik",
            "profile": {
                "exp": 1,
                "courses": 2,
                "books": 3
```

```json
        }
    },
    "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",
    "_rid": "dchmANwZKj4CAAAAAAAAAA==",
    "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",
    "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",
    "_attachments": "attachments/",
    "_ts": 1679389306
},
{
    "title": "Python in simple way",
    "isbn": 1234,
    "downloadable": false,
    "no_of_reviews": 5,
    "tags": [
        "language",
        "freeware",
        "programming"
    ],
    "languages": [
        "english",
        "hindi",
        "telugu"
    ],
    "author": {
        "name": "Daniel IA Cohen",
        "callname": "Dan",
        "profile": {
            "exp": 8,
            "courses": 7,
            "books": 6
        }
    },
    "id": "1244fd3a-0c3d-4f8b-b7d4-eb8436522684",
    "_rid": "dchmANwZKj4DAAAAAAAAAA==",
```

            "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4DAAAAAAAAA==/",

            "_etag": "\"0a02a8dc-0000-0700-0000-6419727a0000\"",

            "_attachments": "attachments/",

            "_ts": 1679389306

        }

]

4)

QUESTION:

Select the records in which tags contains programming

QUERY:

```
SELECT * FROM c where ARRAY_CONTAINS(c.tags,'programming')
```

OUTPUT:

```
[
    {
        "title": "Java in simple way",
        "isbn": 1122,
        "downloadable": true,
        "no_of_reviews": 2,
        "tags": [
            "language",
            "freeware",
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Karhik Ramachandran",
            "callname": "Karthik",
            "profile": {
                "exp": 1,
```

```json
            "courses": 2,

            "books": 3

        }

    },

    "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",

    "_rid": "dchmANwZKj4CAAAAAAAAAA==",

    "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",

    "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",

    "_attachments": "attachments/",

    "_ts": 1679389306

},

{

    "title": "Python in simple way",

    "isbn": 1234,

    "downloadable": false,

    "no_of_reviews": 5,

    "tags": [

        "language",

        "freeware",

        "programming"

    ],

    "languages": [

        "english",

        "hindi",

        "telugu"

    ],

    "author": {

        "name": "Daniel IA Cohen",

        "callname": "Dan",

        "profile": {

            "exp": 8,

            "courses": 7,

            "books": 6

        }

    },
```

```json
        "id": "1244fd3a-0c3d-4f8b-b7d4-eb8436522684",

        "_rid": "dchmANwZKj4DAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4DAAAAAAAAAA==/",

        "_etag": "\"0a02a8dc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
    },
    {

        "title": "Shell Scripting in simple way",

        "isbn": 9988,

        "downloadable": true,

        "no_of_reviews": 1,

        "tags": [

            "programming"

        ],

        "languages": [

            "english",

            "hindi",

            "tamil"

        ],

        "author": {

            "name": "Rama Ramachandran",

            "callname": "Rama",

            "profile": {

                "exp": 8,

                "courses": 3,

                "books": 2

            }

        },

        "id": "45aac395-ab93-4859-9fe4-b99705952a90",

        "_rid": "dchmANwZKj4HAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4HAAAAAAAAAA==/",

        "_etag": "\"0a02acdc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
```

}

]

5)

Select the records in which the languages contains telugu

QUERY:

```sql
SELECT * FROM c where ARRAY_CONTAINS(c.languages,'telugu')
```

OUTPUT:

```json
[
    {
        "title": "Linux in simple way",
        "isbn": 6677,
        "downloadable": false,
        "no_of_reviews": 1,
        "tags": [
            "os",
            "freeware",
            "shell programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Shiva Ramachandran",
            "callname": "Shiv",
            "profile": {
                "exp": 8,
                "courses": 3,
                "books": 2
            }
        },
        "id": "06c160bb-0ad7-451d-bb90-338a04be56e9",
        "_rid": "dchmANwZKj4BAAAAAAAAAA==",
```

```json
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4BAAAAAAAAAA==/",

        "_etag": "\"0a02a6dc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
    },
    {

        "title": "Java in simple way",

        "isbn": 1122,

        "downloadable": true,

        "no_of_reviews": 2,

        "tags": [

            "language",

            "freeware",

            "programming"

        ],

        "languages": [

            "english",

            "hindi",

            "telugu"

        ],

        "author": {

            "name": "Karhik Ramachandran",

            "callname": "Karthik",

            "profile": {

                "exp": 1,

                "courses": 2,

                "books": 3

            }

        },

        "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",

        "_rid": "dchmANwZKj4CAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",

        "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
```

```json
        },
        {
            "title": "Python in simple way",
            "isbn": 1234,
            "downloadable": false,
            "no_of_reviews": 5,
            "tags": [
                "language",
                "freeware",
                "programming"
            ],
            "languages": [
                "english",
                "hindi",
                "telugu"
            ],
            "author": {
                "name": "Daniel IA Cohen",
                "callname": "Dan",
                "profile": {
                    "exp": 8,
                    "courses": 7,
                    "books": 6
                }
            },
            "id": "1244fd3a-0c3d-4f8b-b7d4-eb8436522684",
            "_rid": "dchmANwZKj4DAAAAAAAAAA==",
            "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4DAAAAAAAAAA==/",
            "_etag": "\"0a02a8dc-0000-0700-0000-6419727a0000\"",
            "_attachments": "attachments/",
            "_ts": 1679389306
        },
        {
            "title": "Devops in simple way",
            "isbn": 6677,
```

```json
        "downloadable": false,
        "no_of_reviews": 3,
        "tags": [
            "jenkins",
            "git",
            "cicd"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Dhoni Chandra",
            "callname": "Dhoni",
            "profile": {
                "exp": 4,
                "courses": 4,
                "books": 4
            }
        },
        "id": "ca1ee662-b26e-4600-934a-bbcd59ea1f04",
        "_rid": "dchmANwZKj4EAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4EAAAAAAAAAA==/",
        "_etag": "\"0a02a9dc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "MongoDB in simple way",
        "isbn": 6677,
        "downloadable": true,
        "no_of_reviews": 4,
        "tags": [
            "database",
```

```json
            "cloud",
            "nosql"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Sachin Tendulkar",
            "callname": "Sachin",
            "profile": {
                "exp": 6,
                "courses": 7,
                "books": 8
            }
        },
        "id": "e962fcd9-2774-4b05-93c9-9dd2b3125713",
        "_rid": "dchmANwZKj4FAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4FAAAAAAAAAA==/",
        "_etag": "\"0a02aadc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Oracle in simple way",
        "isbn": 6677,
        "downloadable": true,
        "no_of_reviews": 3,
        "tags": [
            "database",
            "sql",
            "relational"
        ],
        "languages": [
```

```json
        "english",

        "hindi",

        "telugu"

    ],

    "author": {

        "name": "Virat Kohli",

        "callname": "kohli",

        "profile": {

            "exp": 2,

            "courses": 2,

            "books": 2

        }

    },

    "id": "28a72e5b-2e28-4b11-a46f-a61f71d04041",

    "_rid": "dchmANwZKj4GAAAAAAAAAA==",

    "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4GAAAAAAAAAA==/",

    "_etag": "\"0a02abdc-0000-0700-0000-6419727a0000\"",

    "_attachments": "attachments/",

    "_ts": 1679389306

    }

]
```

6)
<u>QUESTION:</u>

Select all the documents

<u>QUERY:</u>

```sql
SELECT * FROM c
```

<u>OUTPUT:</u>

```json
[

    {

        "title": "Linux in simple way",

        "isbn": 6677,

        "downloadable": false,

        "no_of_reviews": 1,

        "tags": [
```

```json
                "os",

                "freeware",

                "shell programming"

            ],

            "languages": [

                "english",

                "hindi",

                "telugu"

            ],

            "author": {

                "name": "Shiva Ramachandran",

                "callname": "Shiv",

                "profile": {

                    "exp": 8,

                    "courses": 3,

                    "books": 2

                }

            },

            "id": "06c160bb-0ad7-451d-bb90-338a04be56e9",

            "_rid": "dchmANwZKj4BAAAAAAAAAA==",

            "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4BAAAAAAAAAA==/",

            "_etag": "\"0a02a6dc-0000-0700-0000-6419727a0000\"",

            "_attachments": "attachments/",

            "_ts": 1679389306

    },

    {

        "title": "Java in simple way",

        "isbn": 1122,

        "downloadable": true,

        "no_of_reviews": 2,

        "tags": [

            "language",

            "freeware",

            "programming"

        ],
```

```json
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Karhik Ramachandran",
            "callname": "Karthik",
            "profile": {
                "exp": 1,
                "courses": 2,
                "books": 3
            }
        },
        "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",
        "_rid": "dchmANwZKj4CAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",
        "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Python in simple way",
        "isbn": 1234,
        "downloadable": false,
        "no_of_reviews": 5,
        "tags": [
            "language",
            "freeware",
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
```

```json
        ],
        "author": {
            "name": "Daniel IA Cohen",
            "callname": "Dan",
            "profile": {
                "exp": 8,
                "courses": 7,
                "books": 6
            }
        },
        "id": "1244fd3a-0c3d-4f8b-b7d4-eb8436522684",
        "_rid": "dchmANwZKj4DAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4DAAAAAAAAAA==/",
        "_etag": "\"0a02a8dc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Devops in simple way",
        "isbn": 6677,
        "downloadable": false,
        "no_of_reviews": 3,
        "tags": [
            "jenkins",
            "git",
            "cicd"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Dhoni Chandra",
            "callname": "Dhoni",
```

```json
        "profile": {

            "exp": 4,

            "courses": 4,

            "books": 4

        }

    },

    "id": "ca1ee662-b26e-4600-934a-bbcd59ea1f04",

    "_rid": "dchmANwZKj4EAAAAAAAAAA==",

    "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4EAAAAAAAAAA==/",

    "_etag": "\"0a02a9dc-0000-0700-0000-6419727a0000\"",

    "_attachments": "attachments/",

    "_ts": 1679389306

},

{

    "title": "MongoDB in simple way",

    "isbn": 6677,

    "downloadable": true,

    "no_of_reviews": 4,

    "tags": [

        "database",

        "cloud",

        "nosql"

    ],

    "languages": [

        "english",

        "hindi",

        "telugu"

    ],

    "author": {

        "name": "Sachin Tendulkar",

        "callname": "Sachin",

        "profile": {

            "exp": 6,

            "courses": 7,

            "books": 8
```

```json
            }
        },
        "id": "e962fcd9-2774-4b05-93c9-9dd2b3125713",
        "_rid": "dchmANwZKj4FAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4FAAAAAAAAAA==/",
        "_etag": "\"0a02aadc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Oracle in simple way",
        "isbn": 6677,
        "downloadable": true,
        "no_of_reviews": 3,
        "tags": [
            "database",
            "sql",
            "relational"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Virat Kohli",
            "callname": "kohli",
            "profile": {
                "exp": 2,
                "courses": 2,
                "books": 2
            }
        },
        "id": "28a72e5b-2e28-4b11-a46f-a61f71d04041",
        "_rid": "dchmANwZKj4GAAAAAAAAAA==",
```

```json
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4GAAAAAAAAAA==/",

        "_etag": "\"0a02abdc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
    },
    {
        "title": "Shell Scripting in simple way",

        "isbn": 9988,

        "downloadable": true,

        "no_of_reviews": 1,

        "tags": [

            "programming"

        ],

        "languages": [

            "english",

            "hindi",

            "tamil"

        ],

        "author": {

            "name": "Rama Ramachandran",

            "callname": "Rama",

            "profile": {

                "exp": 8,

                "courses": 3,

                "books": 2

            }

        },

        "id": "45aac395-ab93-4859-9fe4-b99705952a90",

        "_rid": "dchmANwZKj4HAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4HAAAAAAAAAA==/",

        "_etag": "\"0a02acdc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
    }
]
```

7)

QUERY:

```
SELECT count(c.isbn) FROM c
```

OUTPUT:

```
[
    {
        "$1": 7
    }
]
```

8)

QUESTION:

Select the top 1 document

QUERY:

```
SELECT TOP 1 * FROM c
```

OUTPUT:

```
[
    {
        "title": "Linux in simple way",
        "isbn": 6677,
        "downloadable": false,
        "no_of_reviews": 1,
        "tags": [
            "os",
            "freeware",
            "shell programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Shiva Ramachandran",
            "callname": "Shiv",
            "profile": {
```

```
            "exp": 8,

            "courses": 3,

            "books": 2

        }

    },

    "id": "06c160bb-0ad7-451d-bb90-338a04be56e9",

    "_rid": "dchmANwZKj4BAAAAAAAAAA==",

    "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4BAAAAAAAAAA==/",

    "_etag": "\"0a02a6dc-0000-0700-0000-6419727a0000\"",

    "_attachments": "attachments/",

    "_ts": 1679389306

    }

]
```

9)

<u>QUESTION:</u>

Select records in which number of reviews is greater than 3 or the tags contains programming

<u>QUERY:</u>

```
SELECT * FROM c WHERE c.no_of_reviews > 3 or ARRAY_CONTAINS(c.tags,'programming')
```

<u>OUTPUT:</u>

```
[
    {
        "title": "Java in simple way",

        "isbn": 1122,

        "downloadable": true,

        "no_of_reviews": 2,

        "tags": [
            "language",

            "freeware",

            "programming"
        ],

        "languages": [
            "english",

            "hindi",

            "telugu"
```

```json
        ],
        "author": {
            "name": "Karhik Ramachandran",
            "callname": "Karthik",
            "profile": {
                "exp": 1,
                "courses": 2,
                "books": 3
            }
        },
        "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",
        "_rid": "dchmANwZKj4CAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",
        "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Python in simple way",
        "isbn": 1234,
        "downloadable": false,
        "no_of_reviews": 5,
        "tags": [
            "language",
            "freeware",
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Daniel IA Cohen",
            "callname": "Dan",
```

```json
            "profile": {
                "exp": 8,
                "courses": 7,
                "books": 6
            }
        },
        "id": "1244fd3a-0c3d-4f8b-b7d4-eb8436522684",
        "_rid": "dchmANwZKj4DAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4DAAAAAAAAAA==/",
        "_etag": "\"0a02a8dc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "MongoDB in simple way",
        "isbn": 6677,
        "downloadable": true,
        "no_of_reviews": 4,
        "tags": [
            "database",
            "cloud",
            "nosql"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Sachin Tendulkar",
            "callname": "Sachin",
            "profile": {
                "exp": 6,
                "courses": 7,
                "books": 8
```

```json
            }
        },
        "id": "e962fcd9-2774-4b05-93c9-9dd2b3125713",
        "_rid": "dchmANwZKj4FAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4FAAAAAAAAAA==/",
        "_etag": "\"0a02aadc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Shell Scripting in simple way",
        "isbn": 9988,
        "downloadable": true,
        "no_of_reviews": 1,
        "tags": [
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "tamil"
        ],
        "author": {
            "name": "Rama Ramachandran",
            "callname": "Rama",
            "profile": {
                "exp": 8,
                "courses": 3,
                "books": 2
            }
        },
        "id": "45aac395-ab93-4859-9fe4-b99705952a90",
        "_rid": "dchmANwZKj4HAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4HAAAAAAAAAA==/",
        "_etag": "\"0a02acdc-0000-0700-0000-6419727a0000\"",
```

```json
        "_attachments": "attachments/",

        "_ts": 1679389306

    }

]
```

10)

QUESTION:

Select records in which number of reviews is less than 3 or downloadable is true or the count of books is less than or equal to 2

QUERY:

```sql
SELECT * FROM c WHERE c.no_of_reviews < 3 or c.downloadable = true or
c.author.profile.books <= 2
```

OUTPUT:

```json
[

    {

        "title": "Linux in simple way",

        "isbn": 6677,

        "downloadable": false,

        "no_of_reviews": 1,

        "tags": [

            "os",

            "freeware",

            "shell programming"

        ],

        "languages": [

            "english",

            "hindi",

            "telugu"

        ],

        "author": {

            "name": "Shiva Ramachandran",

            "callname": "Shiv",

            "profile": {

                "exp": 8,

                "courses": 3,

                "books": 2
```

```json
            }
    },
    "id": "06c160bb-0ad7-451d-bb90-338a04be56e9",
    "_rid": "dchmANwZKj4BAAAAAAAAAA==",
    "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4BAAAAAAAAAA==/",
    "_etag": "\"0a02a6dc-0000-0700-0000-6419727a0000\"",
    "_attachments": "attachments/",
    "_ts": 1679389306
},
{
    "title": "Java in simple way",
    "isbn": 1122,
    "downloadable": true,
    "no_of_reviews": 2,
    "tags": [
        "language",
        "freeware",
        "programming"
    ],
    "languages": [
        "english",
        "hindi",
        "telugu"
    ],
    "author": {
        "name": "Karhik Ramachandran",
        "callname": "Karthik",
        "profile": {
            "exp": 1,
            "courses": 2,
            "books": 3
        }
    },
    "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",
    "_rid": "dchmANwZKj4CAAAAAAAAAA==",
```

```json
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",

        "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
    },
    {
        "title": "MongoDB in simple way",

        "isbn": 6677,

        "downloadable": true,

        "no_of_reviews": 4,

        "tags": [

            "database",

            "cloud",

            "nosql"

        ],

        "languages": [

            "english",

            "hindi",

            "telugu"

        ],

        "author": {

            "name": "Sachin Tendulkar",

            "callname": "Sachin",

            "profile": {

                "exp": 6,

                "courses": 7,

                "books": 8

            }

        },

        "id": "e962fcd9-2774-4b05-93c9-9dd2b3125713",

        "_rid": "dchmANwZKj4FAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4FAAAAAAAAAA==/",

        "_etag": "\"0a02aadc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
```

```json
    },
    {
        "title": "Oracle in simple way",
        "isbn": 6677,
        "downloadable": true,
        "no_of_reviews": 3,
        "tags": [
            "database",
            "sql",
            "relational"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Virat Kohli",
            "callname": "kohli",
            "profile": {
                "exp": 2,
                "courses": 2,
                "books": 2
            }
        },
        "id": "28a72e5b-2e28-4b11-a46f-a61f71d04041",
        "_rid": "dchmANwZKj4GAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4GAAAAAAAAAA==/",
        "_etag": "\"0a02abdc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Shell Scripting in simple way",
        "isbn": 9988,
```

        "downloadable": true,

        "no_of_reviews": 1,

        "tags": [

            "programming"

        ],

        "languages": [

            "english",

            "hindi",

            "tamil"

        ],

        "author": {

            "name": "Rama Ramachandran",

            "callname": "Rama",

            "profile": {

                "exp": 8,

                "courses": 3,

                "books": 2

            }

        },

        "id": "45aac395-ab93-4859-9fe4-b99705952a90",

        "_rid": "dchmANwZKj4HAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4HAAAAAAAAAA==/",

        "_etag": "\"0a02acdc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306

    }

]

11)

<u>QUESTION:</u>

Select records where number of reviews is not equal to 3

<u>QUERY:</u>

```
SELECT * FROM c WHERE  c.no_of_reviews != 3
```

<u>OUTPUT:</u>

```json
[
    {
        "title": "Linux in simple way",
        "isbn": 6677,
        "downloadable": false,
        "no_of_reviews": 1,
        "tags": [
            "os",
            "freeware",
            "shell programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Shiva Ramachandran",
            "callname": "Shiv",
            "profile": {
                "exp": 8,
                "courses": 3,
                "books": 2
            }
        },
        "id": "06c160bb-0ad7-451d-bb90-338a04be56e9",
        "_rid": "dchmANwZKj4BAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4BAAAAAAAAAA==/",
        "_etag": "\"0a02a6dc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Java in simple way",
        "isbn": 1122,
```

```json
        "downloadable": true,
        "no_of_reviews": 2,
        "tags": [
            "language",
            "freeware",
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Karhik Ramachandran",
            "callname": "Karthik",
            "profile": {
                "exp": 1,
                "courses": 2,
                "books": 3
            }
        },
        "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",
        "_rid": "dchmANwZKj4CAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",
        "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Python in simple way",
        "isbn": 1234,
        "downloadable": false,
        "no_of_reviews": 5,
        "tags": [
            "language",
```

```json
            "freeware",
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Daniel IA Cohen",
            "callname": "Dan",
            "profile": {
                "exp": 8,
                "courses": 7,
                "books": 6
            }
        },
        "id": "1244fd3a-0c3d-4f8b-b7d4-eb8436522684",
        "_rid": "dchmANwZKj4DAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4DAAAAAAAAAA==/",
        "_etag": "\"0a02a8dc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "MongoDB in simple way",
        "isbn": 6677,
        "downloadable": true,
        "no_of_reviews": 4,
        "tags": [
            "database",
            "cloud",
            "nosql"
        ],
        "languages": [
```

```json
            "english",

            "hindi",

            "telugu"

        ],

        "author": {

            "name": "Sachin Tendulkar",

            "callname": "Sachin",

            "profile": {

                "exp": 6,

                "courses": 7,

                "books": 8

            }

        },

        "id": "e962fcd9-2774-4b05-93c9-9dd2b3125713",

        "_rid": "dchmANwZKj4FAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4FAAAAAAAAAA==/",

        "_etag": "\"0a02aadc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306

    },

    {

        "title": "Shell Scripting in simple way",

        "isbn": 9988,

        "downloadable": true,

        "no_of_reviews": 1,

        "tags": [

            "programming"

        ],

        "languages": [

            "english",

            "hindi",

            "tamil"

        ],

        "author": {

            "name": "Rama Ramachandran",
```

```json
        "callname": "Rama",

        "profile": {

            "exp": 8,

            "courses": 3,

            "books": 2

        }

    },

    "id": "45aac395-ab93-4859-9fe4-b99705952a90",

    "_rid": "dchmANwZKj4HAAAAAAAAAA==",

    "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4HAAAAAAAAAA==/",

    "_etag": "\"0a02acdc-0000-0700-0000-6419727a0000\"",

    "_attachments": "attachments/",

    "_ts": 1679389306

    }

]
```

12)

QUESTION:

Select records where number of reviews is less than 3

QUERY:

```sql
SELECT * FROM c WHERE  c.no_of_reviews < 3
```

OUTPUT:

```json
[

    {

        "title": "Linux in simple way",

        "isbn": 6677,

        "downloadable": false,

        "no_of_reviews": 1,

        "tags": [

            "os",

            "freeware",

            "shell programming"

        ],

        "languages": [
```

```json
                "english",

                "hindi",

                "telugu"

        ],

        "author": {

                "name": "Shiva Ramachandran",

                "callname": "Shiv",

                "profile": {

                        "exp": 8,

                        "courses": 3,

                        "books": 2

                }

        },

        "id": "06c160bb-0ad7-451d-bb90-338a04be56e9",

        "_rid": "dchmANwZKj4BAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4BAAAAAAAAAA==/",

        "_etag": "\"0a02a6dc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306

},

{

        "title": "Java in simple way",

        "isbn": 1122,

        "downloadable": true,

        "no_of_reviews": 2,

        "tags": [

                "language",

                "freeware",

                "programming"

        ],

        "languages": [

                "english",

                "hindi",

                "telugu"

        ],
```

```json
        "author": {
            "name": "Karhik Ramachandran",
            "callname": "Karthik",
            "profile": {
                "exp": 1,
                "courses": 2,
                "books": 3
            }
        },
        "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",
        "_rid": "dchmANwZKj4CAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",
        "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Shell Scripting in simple way",
        "isbn": 9988,
        "downloadable": true,
        "no_of_reviews": 1,
        "tags": [
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "tamil"
        ],
        "author": {
            "name": "Rama Ramachandran",
            "callname": "Rama",
            "profile": {
                "exp": 8,
                "courses": 3,
```

```
            "books": 2
        }
    },
    "id": "45aac395-ab93-4859-9fe4-b99705952a90",
    "_rid": "dchmANwZKj4HAAAAAAAAAA==",
    "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4HAAAAAAAAAA==/",
    "_etag": "\"0a02acdc-0000-0700-0000-6419727a0000\"",
    "_attachments": "attachments/",
    "_ts": 1679389306
    }
]
```

13)

<u>QUESTION:</u>

Select records in which the number of reviews > 3 or downloadable is true

<u>QUERY:</u>

```
SELECT * FROM c WHERE  c.no_of_reviews > 3 or c.downloadable = true
```

<u>OUTPUT:</u>

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

```json
        ],
        "author": {
            "name": "Karhik Ramachandran",
            "callname": "Karthik",
            "profile": {
                "exp": 1,
                "courses": 2,
                "books": 3
            }
        },
        "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",
        "_rid": "dchmANwZKj4CAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",
        "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Python in simple way",
        "isbn": 1234,
        "downloadable": false,
        "no_of_reviews": 5,
        "tags": [
            "language",
            "freeware",
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Daniel IA Cohen",
            "callname": "Dan",
```

```json
        "profile": {
            "exp": 8,
            "courses": 7,
            "books": 6
        }
    },
    "id": "1244fd3a-0c3d-4f8b-b7d4-eb8436522684",
    "_rid": "dchmANwZKj4DAAAAAAAAAA==",
    "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4DAAAAAAAAAA==/",
    "_etag": "\"0a02a8dc-0000-0700-0000-6419727a0000\"",
    "_attachments": "attachments/",
    "_ts": 1679389306
},
{
    "title": "MongoDB in simple way",
    "isbn": 6677,
    "downloadable": true,
    "no_of_reviews": 4,
    "tags": [
        "database",
        "cloud",
        "nosql"
    ],
    "languages": [
        "english",
        "hindi",
        "telugu"
    ],
    "author": {
        "name": "Sachin Tendulkar",
        "callname": "Sachin",
        "profile": {
            "exp": 6,
            "courses": 7,
            "books": 8
```

```json
        }
    },
    "id": "e962fcd9-2774-4b05-93c9-9dd2b3125713",
    "_rid": "dchmANwZKj4FAAAAAAAAAA==",
    "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4FAAAAAAAAAA==/",
    "_etag": "\"0a02aadc-0000-0700-0000-6419727a0000\"",
    "_attachments": "attachments/",
    "_ts": 1679389306
},
{
    "title": "Oracle in simple way",
    "isbn": 6677,
    "downloadable": true,
    "no_of_reviews": 3,
    "tags": [
        "database",
        "sql",
        "relational"
    ],
    "languages": [
        "english",
        "hindi",
        "telugu"
    ],
    "author": {
        "name": "Virat Kohli",
        "callname": "kohli",
        "profile": {
            "exp": 2,
            "courses": 2,
            "books": 2
        }
    },
    "id": "28a72e5b-2e28-4b11-a46f-a61f71d04041",
    "_rid": "dchmANwZKj4GAAAAAAAAAA==",
```

```json
            "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4GAAAAAAAAAA==/",

            "_etag": "\"0a02abdc-0000-0700-0000-6419727a0000\"",

            "_attachments": "attachments/",

            "_ts": 1679389306
        },
        {
            "title": "Shell Scripting in simple way",

            "isbn": 9988,

            "downloadable": true,

            "no_of_reviews": 1,

            "tags": [

                "programming"

            ],

            "languages": [

                "english",

                "hindi",

                "tamil"

            ],

            "author": {

                "name": "Rama Ramachandran",

                "callname": "Rama",

                "profile": {

                    "exp": 8,

                    "courses": 3,

                    "books": 2

                }

            },

            "id": "45aac395-ab93-4859-9fe4-b99705952a90",

            "_rid": "dchmANwZKj4HAAAAAAAAAA==",

            "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4HAAAAAAAAAA==/",

            "_etag": "\"0a02acdc-0000-0700-0000-6419727a0000\"",

            "_attachments": "attachments/",

            "_ts": 1679389306
        }
    ]
```

14)

Select records in which tags contains either database or programming

QUERY:

```
SELECT * FROM c WHERE  ARRAY_CONTAINS(c.tags,'database') or
ARRAY_CONTAINS(c.tags,'programming')
```

OUTPUT:

```
[
    {
        "title": "Java in simple way",
        "isbn": 1122,
        "downloadable": true,
        "no_of_reviews": 2,
        "tags": [
            "language",
            "freeware",
            "programming"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Karhik Ramachandran",
            "callname": "Karthik",
            "profile": {
                "exp": 1,
                "courses": 2,
                "books": 3
            }
        },
        "id": "981c76aa-7f8e-4ac3-aa00-6a155461a119",
        "_rid": "dchmANwZKj4CAAAAAAAAAA==",
```

```json
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4CAAAAAAAAAA==/",

        "_etag": "\"0a02a7dc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
    },
    {
        "title": "Python in simple way",

        "isbn": 1234,

        "downloadable": false,

        "no_of_reviews": 5,

        "tags": [

            "language",

            "freeware",

            "programming"

        ],

        "languages": [

            "english",

            "hindi",

            "telugu"

        ],

        "author": {

            "name": "Daniel IA Cohen",

            "callname": "Dan",

            "profile": {

                "exp": 8,

                "courses": 7,

                "books": 6

            }

        },

        "id": "1244fd3a-0c3d-4f8b-b7d4-eb8436522684",

        "_rid": "dchmANwZKj4DAAAAAAAAAA==",

        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4DAAAAAAAAAA==/",

        "_etag": "\"0a02a8dc-0000-0700-0000-6419727a0000\"",

        "_attachments": "attachments/",

        "_ts": 1679389306
```

```json
        },
        {
            "title": "MongoDB in simple way",
            "isbn": 6677,
            "downloadable": true,
            "no_of_reviews": 4,
            "tags": [
                "database",
                "cloud",
                "nosql"
            ],
            "languages": [
                "english",
                "hindi",
                "telugu"
            ],
            "author": {
                "name": "Sachin Tendulkar",
                "callname": "Sachin",
                "profile": {
                    "exp": 6,
                    "courses": 7,
                    "books": 8
                }
            },
            "id": "e962fcd9-2774-4b05-93c9-9dd2b3125713",
            "_rid": "dchmANwZKj4FAAAAAAAAAA==",
            "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4FAAAAAAAAAA==/",
            "_etag": "\"0a02aadc-0000-0700-0000-6419727a0000\"",
            "_attachments": "attachments/",
            "_ts": 1679389306
        },
        {
            "title": "Oracle in simple way",
            "isbn": 6677,
```

```json
        "downloadable": true,
        "no_of_reviews": 3,
        "tags": [
            "database",
            "sql",
            "relational"
        ],
        "languages": [
            "english",
            "hindi",
            "telugu"
        ],
        "author": {
            "name": "Virat Kohli",
            "callname": "kohli",
            "profile": {
                "exp": 2,
                "courses": 2,
                "books": 2
            }
        },
        "id": "28a72e5b-2e28-4b11-a46f-a61f71d04041",
        "_rid": "dchmANwZKj4GAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4GAAAAAAAAAA==/",
        "_etag": "\"0a02abdc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    },
    {
        "title": "Shell Scripting in simple way",
        "isbn": 9988,
        "downloadable": true,
        "no_of_reviews": 1,
        "tags": [
            "programming"
```

```json
        ],
        "languages": [
            "english",
            "hindi",
            "tamil"
        ],
        "author": {
            "name": "Rama Ramachandran",
            "callname": "Rama",
            "profile": {
                "exp": 8,
                "courses": 3,
                "books": 2
            }
        },
        "id": "45aac395-ab93-4859-9fe4-b99705952a90",
        "_rid": "dchmANwZKj4HAAAAAAAAAA==",
        "_self": "dbs/dchmAA==/colls/dchmANwZKj4=/docs/dchmANwZKj4HAAAAAAAAAA==/",
        "_etag": "\"0a02acdc-0000-0700-0000-6419727a0000\"",
        "_attachments": "attachments/",
        "_ts": 1679389306
    }
]
```