
MONGODB PROJECT

INTERMIDATE SECTION

Demonstrate How to Use \$Exists Operator In Document In MongoDB

dataset

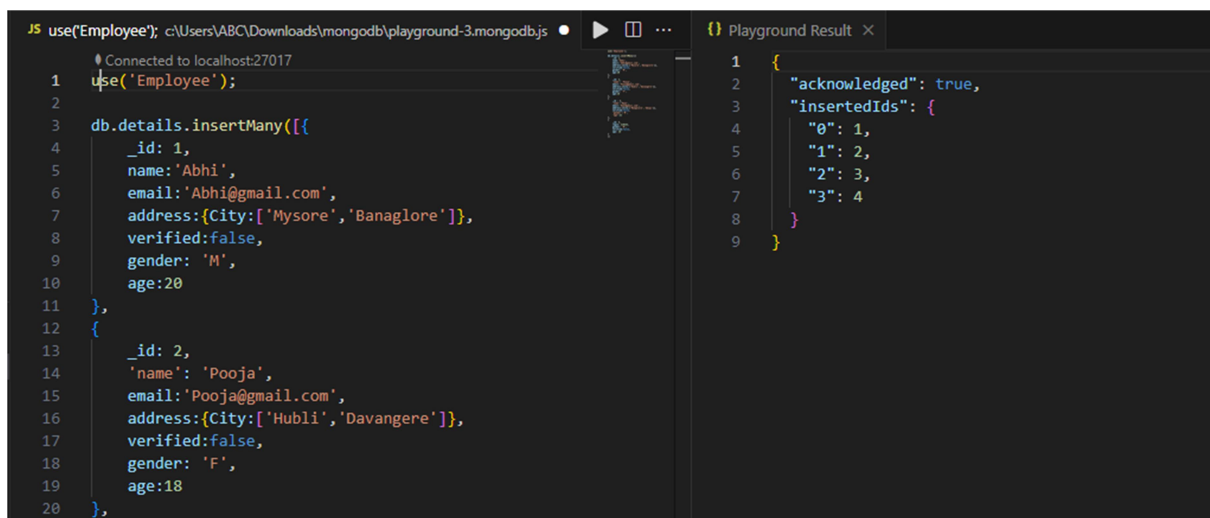
```
_id:1,
'name': "Manasa",
age: 25,
grades: [
{ grade: "Maths", score: 80 },
{ grade: "Science", score: 85 }
]
_id: 2,
'name': "Chandrasekar",
age: 35,
grades: [
{ grade: "Maths", score: 95 },
{ grade: "Science", score: 88 }
]
_id: 3,
'name': "Deepak",
age: 30,
grades: [
{ grade: "Maths", score: 85 },
{ grade: "Science", score: 90 }
]
```

```
>use('Employee')
>db.details.insertMany([
{
  _id: 1,
  name:'Abhi',
  email:'Abhi@gmail.com',
  address:{City:['Mysore','Banaglore']},
  verified:false,
  gender: 'M',
  age:20
}
```

```

}
{
  _id: 2,
  'name': 'Pooja',
  email: 'Pooja@gmail.com',
  address: {City: ['Hubli', 'Davangere']},
  verified: false,
  gender: 'F',
  age: 18
}
{
  _id : 3,
  'name': 'Ryan',
  email: 'Ryan@gmail.com',
  address: {City: ['Mangalore', 'Udupi']},
  verified: false,
  'gender': 'M',
  'age': 21
}
{
  _id: 4,
  regno: 210243,
  gender: 'M',
  verified: false,
  age: 16
}
]);

```



```

JS use('Employee'); c:\Users\ABC\Downloads\mongodb\playground-3.mongodb.js
1 use('Employee');
2
3 db.details.insertMany([
4   {
5     _id: 1,
6     name: 'Abhi',
7     email: 'Abhi@gmail.com',
8     address: {City: ['Mysore', 'Banaglore']},
9     verified: false,
10    gender: 'M',
11    age: 20
12  },
13  {
14    _id: 2,
15    'name': 'Pooja',
16    email: 'Pooja@gmail.com',
17    address: {City: ['Hubli', 'Davangere']},
18    verified: false,
19    gender: 'F',
20    age: 18
21  },
22  {
23    _id: 3,
24    'name': 'Ryan',
25    email: 'Ryan@gmail.com',
26    address: {City: ['Mangalore', 'Udupi']},
27    verified: false,
28    'gender': 'M',
29    'age': 21
30  },
31  {
32    _id: 4,
33    regno: 210243,
34    gender: 'M',
35    verified: false,
36    age: 16
37  }
38 ],
39 );

```

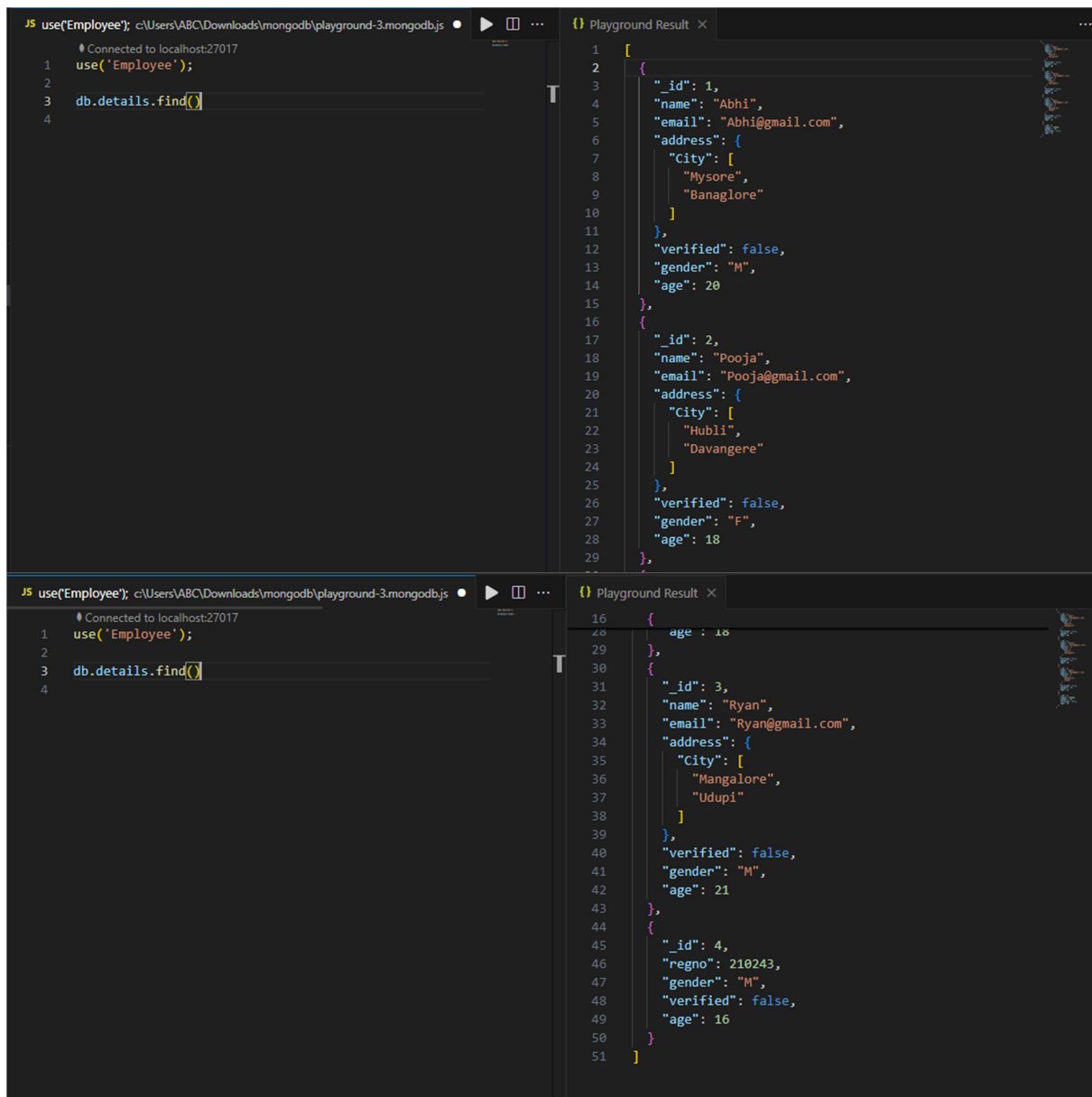
```

1 {
2   "acknowledged": true,
3   "insertedIds": {
4     "0": 1,
5     "1": 2,
6     "2": 3,
7     "3": 4
8   }
9 }

```

Verifying operation

>db.details.find()



The image shows two screenshots of a MongoDB Playground interface. The top screenshot shows the command `db.details.find()` being executed, and the result is a JSON array of two documents. The bottom screenshot shows the same command being executed, and the result is a JSON array of two documents, with the first document having an `age` field of 18.

```
JS use('Employee'); c:\Users\ABC\Downloads\mongodb\playground-3.mongodbs.js
1 use('Employee');
2
3 db.details.find()
4
```

```
1 [
2   {
3     "_id": 1,
4     "name": "Abhi",
5     "email": "Abhi@gmail.com",
6     "address": {
7       "City": [
8         "Mysore",
9         "Banaglore"
10      ]
11    },
12    "verified": false,
13    "gender": "M",
14    "age": 20
15  },
16  {
17    "_id": 2,
18    "name": "Pooja",
19    "email": "Pooja@gmail.com",
20    "address": {
21      "City": [
22        "Hubli",
23        "Davangere"
24      ]
25    },
26    "verified": false,
27    "gender": "F",
28    "age": 18
29  }
30 ]
```

```
JS use('Employee'); c:\Users\ABC\Downloads\mongodb\playground-3.mongodbs.js
1 use('Employee');
2
3 db.details.find()
4
```

```
16 {
17   "age": 18
18 },
19 {
20   "_id": 3,
21   "name": "Ryan",
22   "email": "Ryan@gmail.com",
23   "address": {
24     "City": [
25       "Mangalore",
26       "Udupi"
27     ]
28   },
29   "verified": false,
30   "gender": "M",
31   "age": 21
32 },
33 {
34   "_id": 4,
35   "regno": 210243,
36   "gender": "M",
37   "verified": false,
38   "age": 16
39 }
40 ]
```

1) Demonstrate How To Use \$Exists ie Check Whether Name Exists In Document Or not and if Name Field Exists In Document Then Fetches Only Those Records

>db.details.find({ name: { \$exists: true } })

```
JS use('Employee'); c:\Users\ABC\Downloads\mongodb\playground-3.mongodb.js • ▶ □ ... {} Playground Result ×
1 use('Employee');
2
3 db.details.find({ name: { $exists: true } })
4
```

```
1 [
2   {
3     "_id": 1,
4     "name": "Abhi",
5     "email": "Abhi@gmail.com",
6     "address": {
7       "City": [
8         "Mysore",
9         "Banaglore"
10      ]
11    },
12    "verified": false,
13    "gender": "M",
14    "age": 20
15  },
16  {
17    "_id": 2,
18    "name": "Pooja",
19    "email": "Pooja@gmail.com",
20    "address": {
21      "City": [
22        "Hubli",
23        "Davangere"
24      ]
25    },
26    "verified": false,
27    "gender": "F",
28    "age": 18
29  },
30 ]
```

2) Demonstrate How To Use \$Exist To Check Whether Name Does not Exists In Document ,Then Fetches Only Those Records

>db.details. find({ name: { \$exists: false } })

```
JS use('Employee'); c:\Users\ABC\Downloads\mongodb\playground-3.mongodb.js • ▶ □ ... {} Playground Result ×
1 use('Employee');
2
3 db.details.find({ name: { $exists: false } })
4
5
```

```
1 [
2   {
3     "_id": 4,
4     "regno": 210243,
5     "gender": "M",
6     "verified": false,
7     "age": 16
8   }
9 ]
```

3) Demonstrate How to use \$Exist To Check Whether Name Exists In Document And Age >18

**>db.details. find({
 name: { \$exists: true },
 age: { \$gt: 18 }
})**

```
JS use('Employee'); c:\Users\ABC\Downloads\mongodb\playground-3.mongodbs •
1 use('Employee');
2
3 db.details. find({
4   name: { $exists: true },
5   age: { $gt: 18 }
6 })
7
8
9
```

```
Playground Result x
1 [
2   {
3     "_id": 1,
4     "name": "Abhi",
5     "email": "Abhi@gmail.com",
6     "address": {
7       "City": [
8         "Mysore",
9         "Banaglore"
10      ]
11    },
12    "verified": false,
13    "gender": "M",
14    "age": 20
15  },
16  {
17    "_id": 3,
18    "name": "Ryan",
19    "email": "Ryan@gmail.com",
20    "address": {
21      "City": [
22        "Mangalore",
23        "Udupi"
24      ]
25    },
26    "verified": false,
27    "gender": "M",
28    "age": 21
29  }
30 ]
```

Activate Windows

4) Query to Find Documents Where a Nested Field Exists using Exist Operator

>db.details. find({ "nestedField.subField": { \$exists: true } })

```
JS use('Employee'); c:\Users\ABC\Downloads\mongodb\playground-3.mongodbs •
1 use('Employee');
2
3 db.details. find({ "nestedField.subField": { $exists: tr
4
5
```

```
Playground Result x
1 []
```

5) Query to Find Documents Where a Nested Field Exists using Exist Operator and age>=21

**>db.details.updateMany(
 { email: { \$exists: true } },
 { \$set: { verified: true } }
)**

```
JS use('Employee'); c:\Users\ABC\Downloads\mongodb\playground-3.mongodb.js • {} Playground Result X
  Connected to localhost:27017
1 use('Employee');
2
3 db.details.updateMany(
4   { email: { $exists: true } },
5   { $set: { verified: true } }
6 )
7
8
```

```
1 {
2   "acknowledged": true,
3   "insertedId": null,
4   "matchedCount": 3,
5   "modifiedCount": 3,
6   "upsertedCount": 0
7 }
```