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### **PRACTICAL NO.: 4**

### **Comparison Operators**

```
> db.prac4_aggregation.find({"fare": {"$eq": 8.05}}, {sex: 5})

<{
    _id: ObjectId('65d9c2b8db7080115321a0c3'),
    sex: 'male'
}

{
    _id: ObjectId('65d9c2b8db7080115321a0cc'),
    sex: 'male'
}

{
    _id: ObjectId('65d9c2b8db7080115321a0f7'),
    sex: 'female'
}

{
    _id: ObjectId('65d9c2b8db7080115321a0f7'),
    sex: 'male'
}

{
    _id: ObjectId('65d9c2b8db7080115321a0ff'),
    sex: 'male'
}

{
    _id: ObjectId('65d9c2b8db7080115321a0ff'),
    sex: 'male'
}
</pre>
```

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```
{
    _id: ObjectId('65d9c2b8db7080115321a115'),
    sex: 'male'
}
{
    _id: ObjectId('65d9c2b8db7080115321a122'),
    sex: 'male'
}
{
    _id: ObjectId('65d9c2b8db7080115321a12a'),
    sex: 'male'
}
{
    _id: ObjectId('65d9c2b8db7080115321a12d'),
    sex: 'male'
}
{
    _id: ObjectId('65d9c2b8db7080115321a131'),
    sex: 'male'
}
{
    _id: ObjectId('65d9c2b8db7080115321a131'),
    sex: 'male'
}
```

```
id: ObjectId('65d9c2b8db7080115321a155'),
    sex: 'male'
}

{
    _id: ObjectId('65d9c2b8db7080115321a16b'),
    sex: 'male'
}

{
    _id: ObjectId('65d9c2b8db7080115321a16e'),
    sex: 'female'
}

{
    _id: ObjectId('65d9c2b8db7080115321a18a'),
    sex: 'male'
}

{
    _id: ObjectId('65d9c2b8db7080115321a18a'),
    sex: 'male'
}

{
    _id: ObjectId('65d9c2b8db7080115321a193'),
    sex: 'male'
}

{
    _id: ObjectId('65d9c2b8db7080115321a1a3'),
    sex: 'male'
}
```

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```
{
    _id: ObjectId('65d9c2b8db7080115321a087'),
    age: 3
}
{
    _id: ObjectId('65d9c2b8db7080115321a0ad'),
    age: 2
}
{
    _id: ObjectId('65d9c2b8db7080115321a0ae'),
    age: 4
}
{
    _id: ObjectId('65d9c2b8db7080115321a0b0'),
    age: 0.92
}
{
    _id: ObjectId('65d9c2b8db7080115321a0b1'),
    age: 5
}
{
    _id: ObjectId('65d9c2b8db7080115321a0b1'),
    age: 5
}
{
    _id: ObjectId('65d9c2b8db7080115321a0c5'),
    age: 0.83
}
```

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```
}
{
    fare: 120
}
{
    fare: 120
}
{
    fare: 120
}
{
    fare: 136.7792
}
{
    fare: 136.7792
}
{
    fare: 151.55
}
```

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## **Logical Operators**

```
{
    age: 71,
    fare: 49.5042
}
{
    age: 47,
    fare: 227.525
}
{
    age: 80,
    fare: 30
}
{
    age: '',
    fare: 25.925
}
{
    age: 50,
    fare: 247.5208
}
```

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```
> db.prac4_aggregation.find({
        "fare": {"$lt": 50},
        "boat": {"$ne": null}},
        {"_id": 0, "fare": 10, "boat": 13})

{
    fare: 26.55,
    boat: 3
}
{
    fare: 0,
    boat: ''
}
{
    fare: 49.5042,
    boat: ''
}
{
    fare: 30,
    boat: 'B'
}
{
    fare: 25.925,
    boat: ''
```

```
}
{
    fare: 30,
    boat: 5
}
{
    fare: 26,
    boat: ''
}
{
    fare: 26.55,
    boat: 'D'
}
{
    fare: 35.5,
    boat: ''
}
{
    fare: 31,
    boat: 7
}
{
    fare: 26.55,
    boat: 8
```

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#### **Element Operator**

```
> db.prac4_aggregation.find({"sex": {"$type": "string"}}).pretty()

< {
    _id: ObjectId('65d9c2b8db70801153219e62'),
    pclass: 1,
    survived: 1,
    name: 'Allen, Miss. Elisabeth Walton',
    sex: 'female',
    age: 29,
    sibsp: 0,
    parch: 0,
    ticket: 24160,
    fare: 211.3375,
    cabin: 'B5',
    embarked: 'S',
    boat: 2,
    body: '',
    'home.dest': 'St Louis, MO'
}

{
    _id: ObjectId('65d9c2b8db70801153219e63'),
    pclass: 1,</pre>
```

```
pclass: 1,
survived: 1,
name: 'Allison, Master. Hudson Trevor',
sex: 'male',
age: 0.92,
sibsp: 1,
parch: 2,
ticket: 113781,
fare: 151.55,
cabin: 'C22 C26',
embarked: 'S',
boat: 11,
body: '',
'home.dest': 'Montreal, PQ / Chesterville, ON
}
{
_id: ObjectId('65d9c2b8db70801153219e64'),
pclass: 1,
survived: 0,
name: 'Allison, Miss. Helen Loraine',
sex: 'female',
age: 2,
sibsp: 1,
parch: 2,
ticket: 113781.
```

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```
> db.prac4_aggregation.count({"body": null}, {body:14})
< 0</pre>
```

## **Array Operators**