CRUD Homework Solutions

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This document provides solutions to all the tasks.

Warning: This documents does not include explanation.

Task 1

Task

Count all the people who are named Pauline Fournier.

Solution

Query

```
db.people.find({
    firstName: 'Pauline',
    lastName: 'Fournier'
}).count()
```

Result

67

Task 2

Task

Count all the people who are named Pauline Fournier and were born before 01.01.1970.

Solution

Query

```
db.people.find({
    firstName: 'Pauline',
    lastName: 'Fournier',
    birthDate: {
        $lt: new ISODate('1970-01-01T00:00:00.000')
    }
}).count()
```

Result

Task

Count all the people who are named:

- Lucas Dubois
- Camille Dubois

Solution

```
Query
```

```
db.people.find({
    firstName: {
        $in: ['Lucas', 'Camille']
    },
    lastName: 'Dubois'
}).count()
```

Result

471

Task 4

Task

Count all the people who have no credits.

Solution

Query

```
db.people.find({
    $or: [
        {'wealth.credits': {$size: 0}},
        {'wealth.credits': null}
    ]
}).count()
```

Result

Task

Count all the people who have spent exactly 12.99 in the cinema.

Solution

Query

```
db.people.find({
    payments: {
        category: 'relax',
        name: 'cinema',
        amount: 12.99
    }
}).count()
```

or

```
db.people.find({
    payments: {
        $elemMatch: {
            category: 'relax',
            name: 'cinema',
            amount: 12.99
        }
    }
}).count()
```

Result

Task

Count all the people, who have made a payment of 12.99 in the cinema, as the first.

Solution

```
Query
```

```
db.people.find({
    'payments.0': {
        category: 'relax',
        name: 'cinema',
        amount: 12.99
    }
}).count()
```

Result

24

Task 7

Task

Count all the people who have not been to the cinema yet.

Solution

```
Query
```

Result

Task

Count all the women who spent more than 100 on shoes, and more than 50 on pants.

Solution

Query

Result

Task

Count all the people from Warsaw, Poland who have been to the cinema but have not been to the disco yet.

Solution

Query

Result

Task

Count all the women from Paris and the men from Cracow, who have all of the following properties:

- flat
- house
- land

At least one of them has to cost more than 2 000 000, and none of them less than 500 000.

Solution

Query

Result