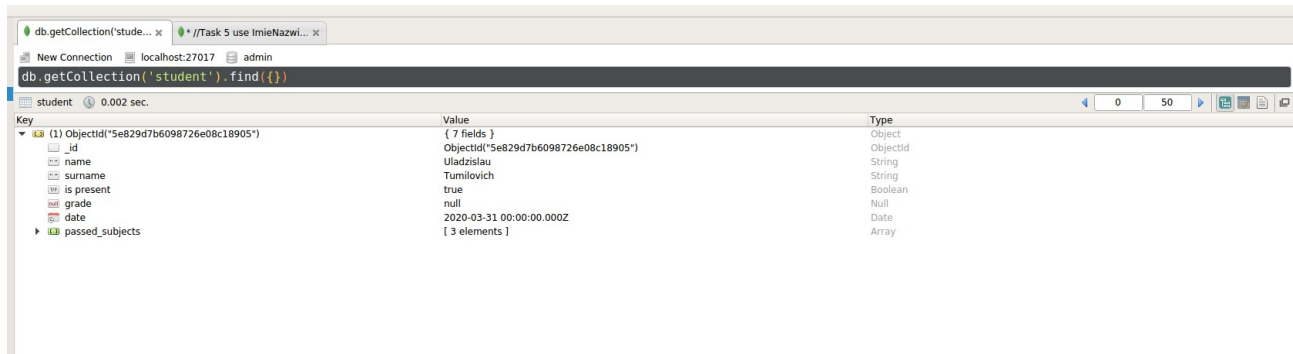


Dokumentowe bazy danych –MongoDB

Raport Wykonał: Uladzislau Tumilovich

Zad 1 – 3. Wszystko się udało, nie ma co za bardzo pokazywać.

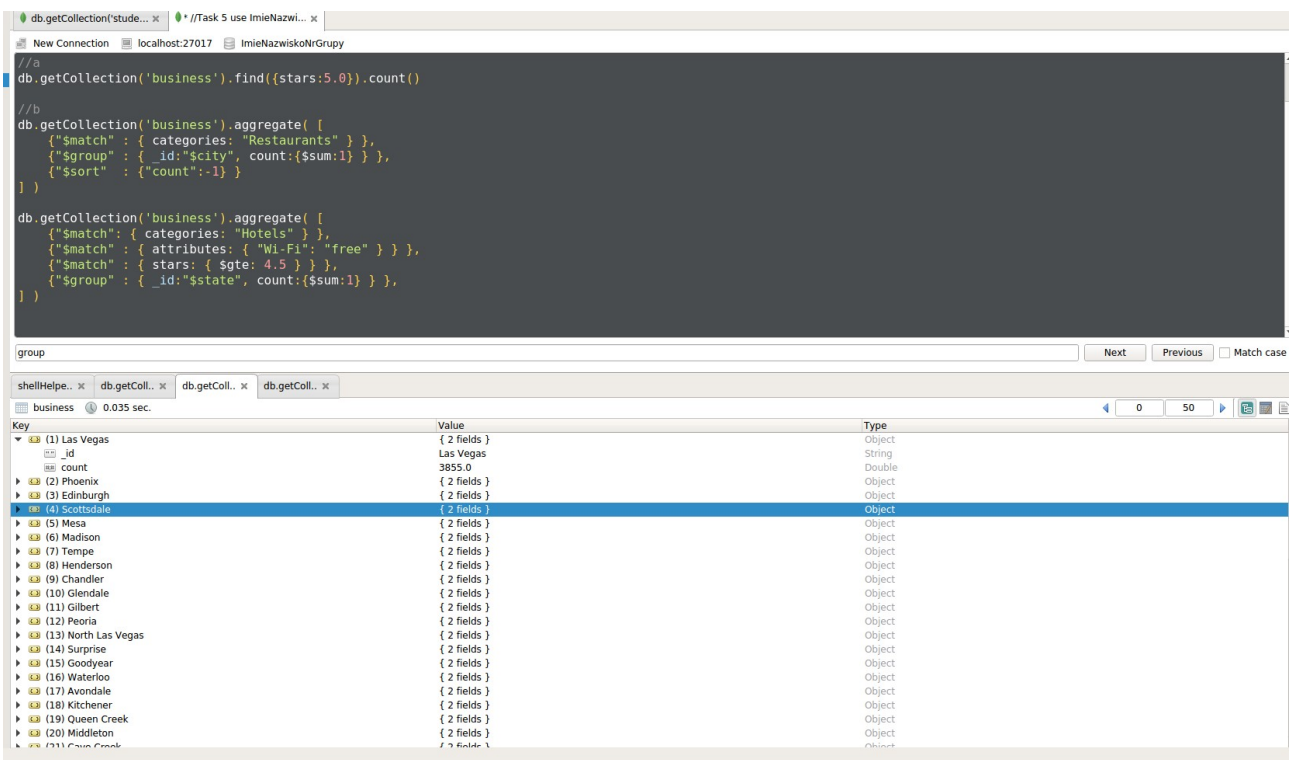
Zad 4.



The screenshot shows the MongoDB Shell interface. The command `db.getCollection('student').find({})` has been executed. The result is a single document from the 'student' collection. The document structure is as follows:

Key	Value	Type
<code>(1) ObjectId("5e829d7b6098726e08c18905")</code>	<code>{ 7 fields }</code>	Object
<code>_id</code>	<code>ObjectId("5e829d7b6098726e08c18905")</code>	ObjectId
<code>name</code>	<code>Uladzislau</code>	String
<code>surname</code>	<code>Tumilovich</code>	String
<code>is present</code>	<code>true</code>	Boolean
<code>grade</code>	<code>null</code>	Null
<code>date</code>	<code>2020-03-31 00:00:00.000Z</code>	Date
<code>passed_subjects</code>	<code>[3 elements]</code>	Array

Zad.5



The screenshot shows the MongoDB Shell interface with two aggregation queries executed on the 'business' collection.

Query 1 (//a): `db.getCollection('business').find({stars:5.0}).count()`

Query 2 (//b): `db.getCollection('business').aggregate([{$match: { categories: "Restaurants" }}, {$group: { _id:"$city", count:{$sum:1} }}, {$sort: { "count":-1} }])`

Query 3: `db.getCollection('business').aggregate([{$match: { categories: "Hotels" }}, {$match: { attributes: { "Wi-Fi": "free" } }}, {$match: { stars: { $gte: 4.5 } }}, {$group: { _id:"$state", count:{$sum:1} }},])`

The results show a list of cities grouped by state, sorted by count in descending order. The first result is Las Vegas with a count of 3855.0.

Zad 6.

Zdążyłem zrobić tylko 6a



```
3 // task 5a
4
5 private int getHighRatedNumber() {
6     DBCollection collection = db.getCollection("business");
7     DBCursor cursor = collection.find();
8     Iterator<DBObject> fields = cursor.iterator();
9     int count = 0;
10    String fiveStar = new String("5.0");
11    while (fields.hasNext()) {
12        if (fields.next().get("stars").toString().equals(fiveStar)) {
13            count++;
14        }
15    }
16    return count;
17 }
18
19 }
```