**VIT-AP UNIVERSITY, ANDHRA PRADESH**

## Lab Sheet 6: MongoDB Basic commands

**Branch/ Class:** B.Tech/M.Tech **Date: 26/02/2026**
**Faculty Name:** Prof. S.Gopikrishnan **School:** SCOPE
**Student name: V.Raj Bharath** **Reg. no.: 23BCE8517**

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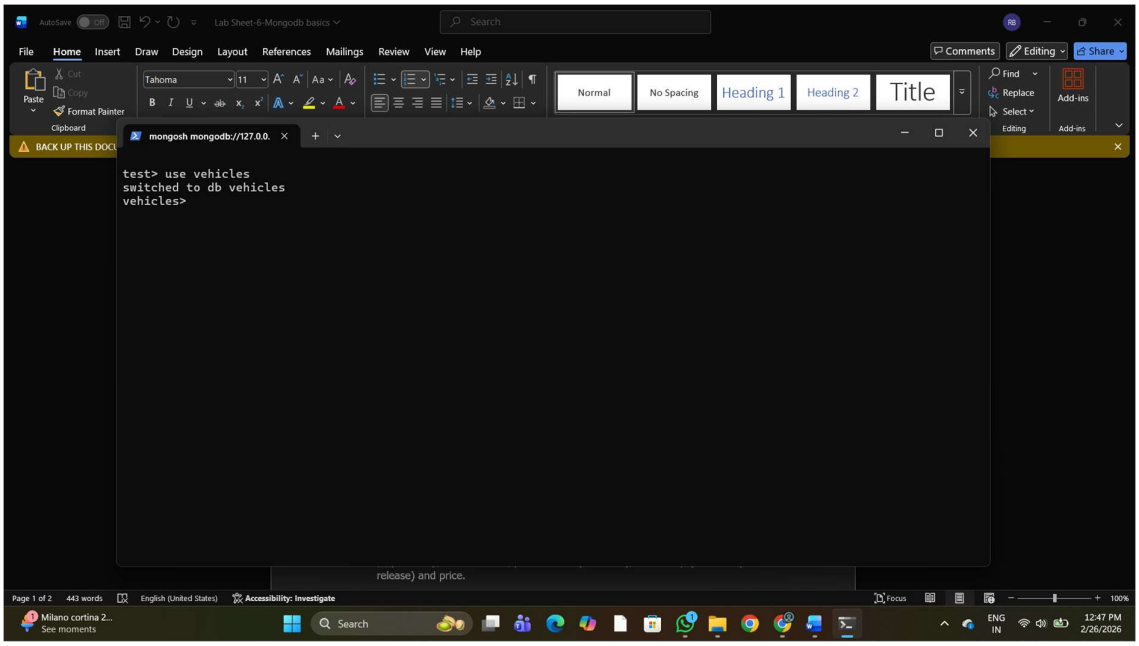
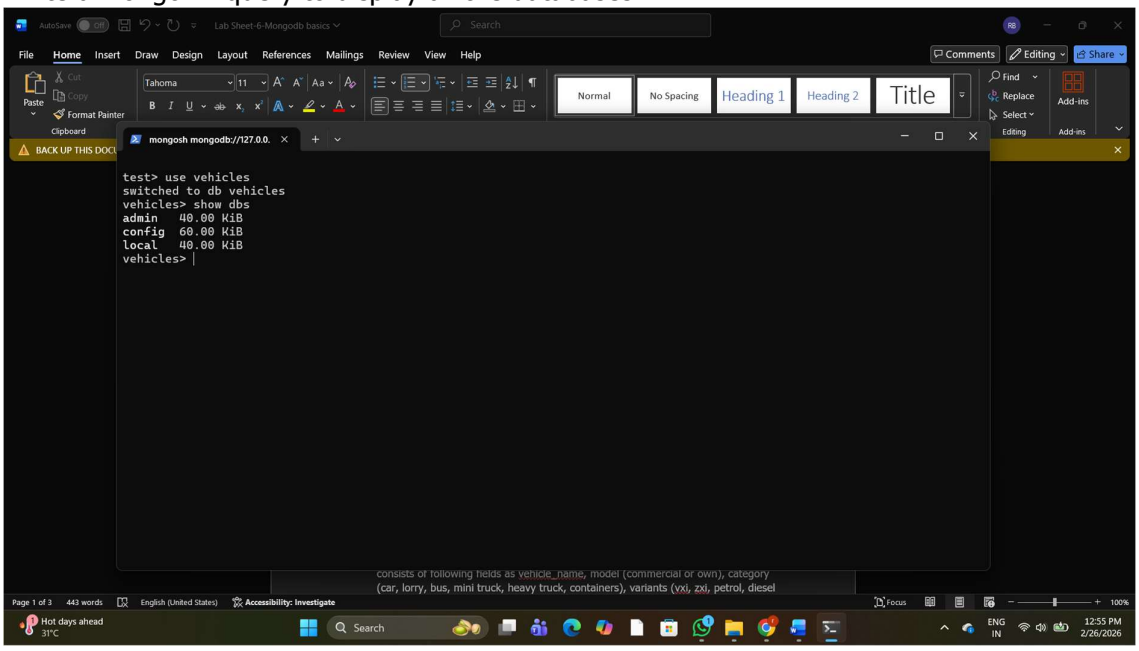
1. Use MongoDB to implement the following DB operations

    1. Create a database called 'vehicles' and *write* a MongoDB query to select database as "vehicles".




    2. Write a MongoDB query to display all the databases.



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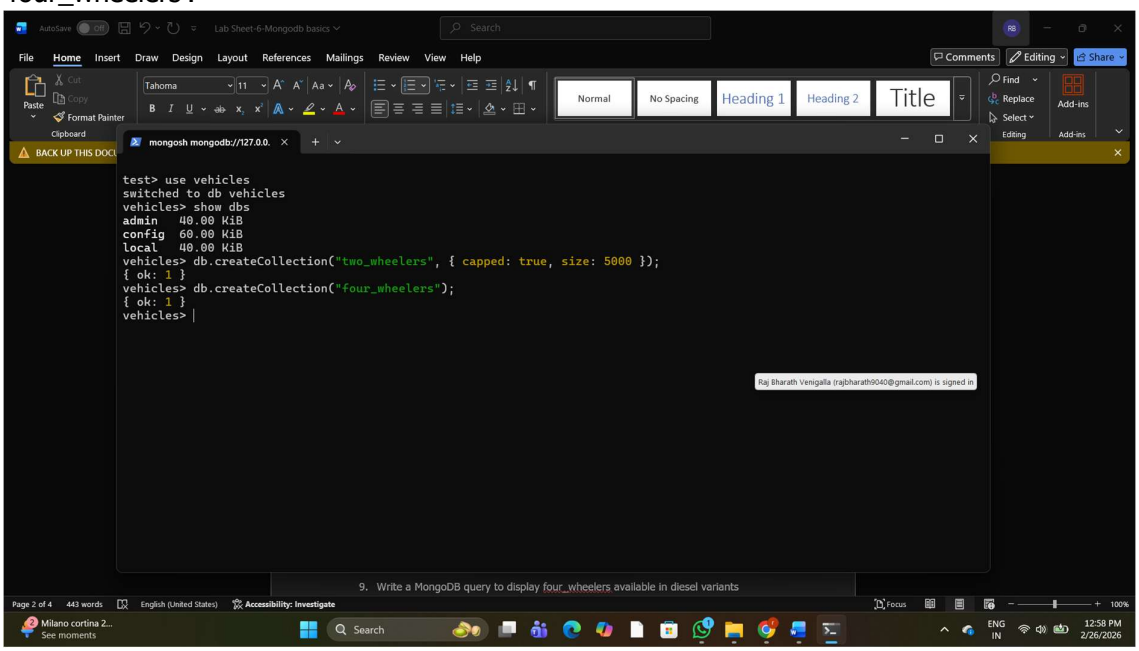
3. Create a collection called 'two_wheelers'. (use capping) and Create a collection called 'four_wheelers'.




4. Add 5 two-wheeler details to the collection named 'two_wheelers'. Each document consists of following fields as bike_name, model (gear or gearless), category (100cc, 125cc, 150cc, 200cc), colors_available (red, black, blue, sport red etc) as array, manufacturer, performance (out of 10), timestamp (date and year release) and price.

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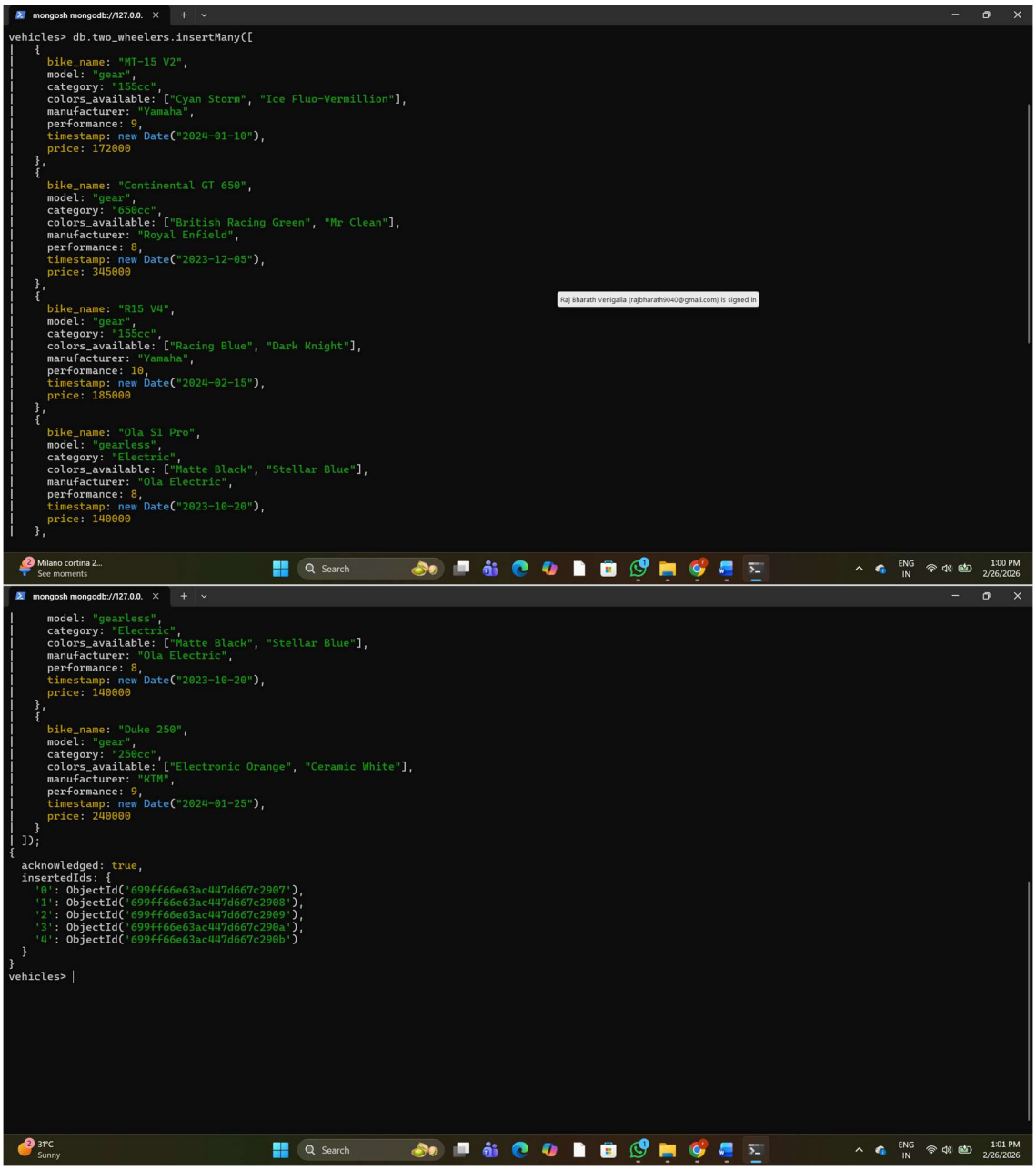


5. Add 5 four-wheeler details to the collection named 'four_wheelers'. Each document consists of following fields as vehicle_name, model (commercial or own), category (car, lorry, bus, mini truck, heavy truck, containers), variants (vxi, zxi, petrol, diesel etc) as array, manufacturer, performance (out of 10), timestamp (date and year release) and price.

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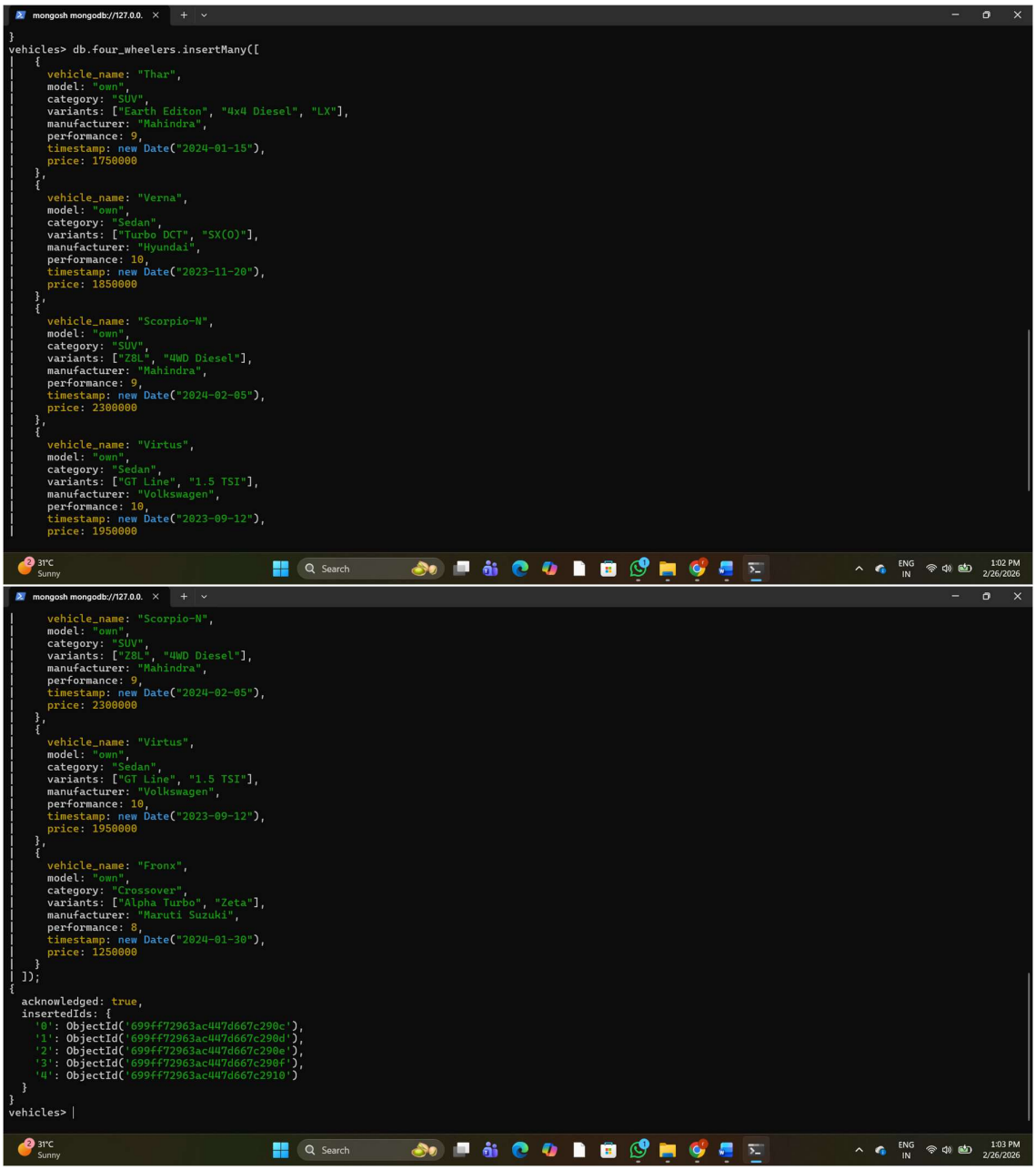


6. Write a MongoDB query to display all documents available in two_wheelers and four_wheelers.

**VIT-AP UNIVERSITY, ANDHRA PRADESH**

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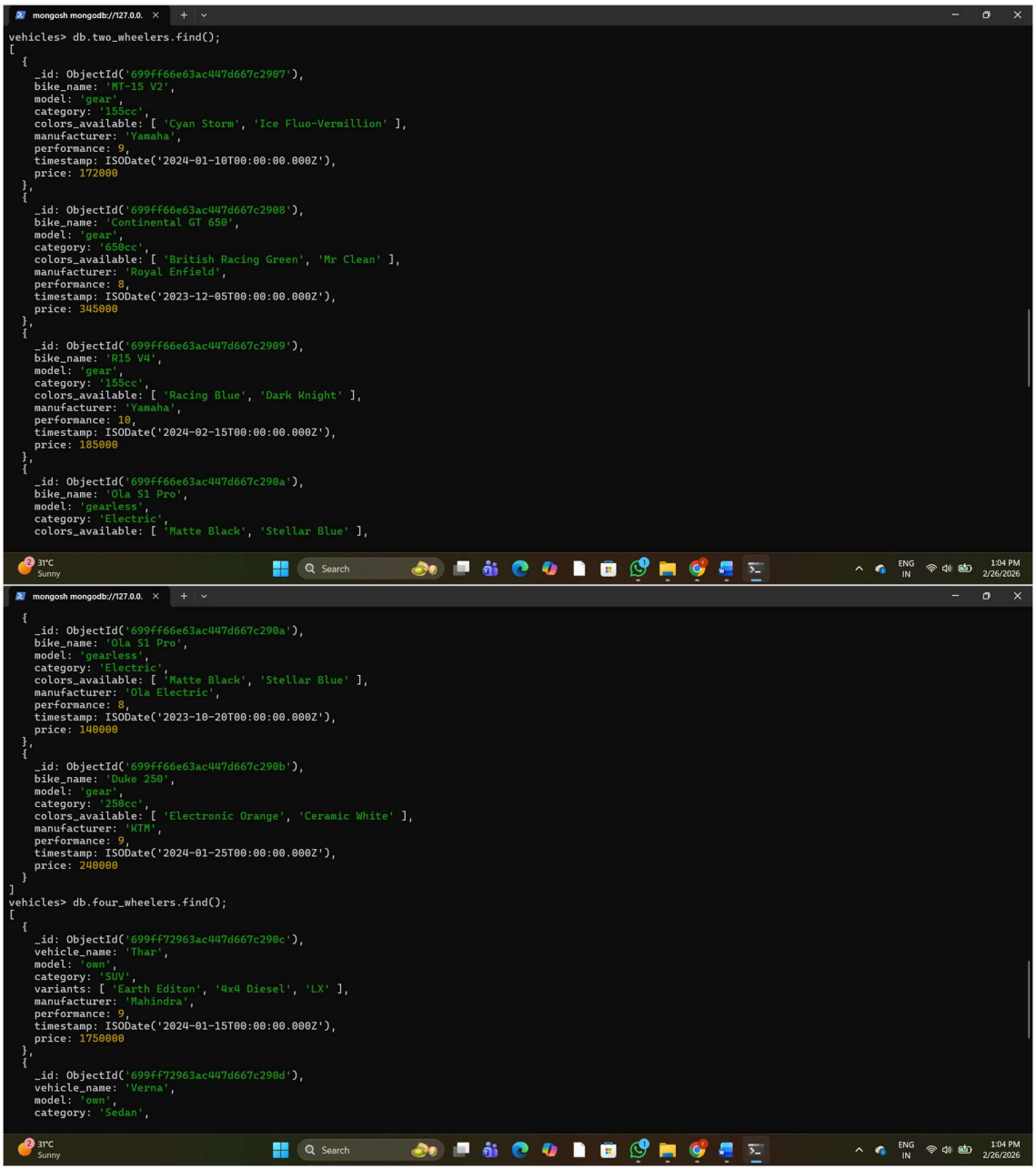

```
mongosh mongodb://127.0.0.
vehicles> db.two_wheelers.find();
[
  {
    _id: ObjectId('699ff66e63ac447d667c2907'),
    bike_name: 'MT-15 V2',
    model: 'gear',
    category: '155cc',
    colors_available: [ 'Cyan Storm', 'Ice Fluo-Vermillion' ],
    manufacturer: 'Yamaha',
    performance: 9,
    timestamp: ISODate('2024-01-10T00:00:00.000Z'),
    price: 172000
  },
  {
    _id: ObjectId('699ff66e63ac447d667c2908'),
    bike_name: 'Continental GT 650',
    model: 'gear',
    category: '650cc',
    colors_available: [ 'British Racing Green', 'Mr Clean' ],
    manufacturer: 'Royal Enfield',
    performance: 8,
    timestamp: ISODate('2023-12-05T00:00:00.000Z'),
    price: 345000
  },
  {
    _id: ObjectId('699ff66e63ac447d667c2909'),
    bike_name: 'R15 V4',
    model: 'gear',
    category: '155cc',
    colors_available: [ 'Racing Blue', 'Dark Knight' ],
    manufacturer: 'Yamaha',
    performance: 10,
    timestamp: ISODate('2024-02-15T00:00:00.000Z'),
    price: 185000
  },
  {
    _id: ObjectId('699ff66e63ac447d667c290a'),
    bike_name: 'Ola S1 Pro',
    model: 'gearless',
    category: 'Electric',
    colors_available: [ 'Matte Black', 'Stellar Blue' ],
```

```
mongosh mongodb://127.0.0.
  {
    _id: ObjectId('699ff66e63ac447d667c290a'),
    bike_name: 'Ola S1 Pro',
    model: 'gearless',
    category: 'Electric',
    colors_available: [ 'Matte Black', 'Stellar Blue' ],
    manufacturer: 'Ola Electric',
    performance: 8,
    timestamp: ISODate('2023-10-20T00:00:00.000Z'),
    price: 140000
  },
  {
    _id: ObjectId('699ff66e63ac447d667c290b'),
    bike_name: 'Duke 250',
    model: 'gear',
    category: '250cc',
    colors_available: [ 'Electronic Orange', 'Ceramic White' ],
    manufacturer: 'KTM',
    performance: 9,
    timestamp: ISODate('2024-01-25T00:00:00.000Z'),
    price: 240000
  }
]
vehicles> db.four_wheelers.find();
[
  {
    _id: ObjectId('699ff72963ac447d667c290c'),
    vehicle_name: 'Thar',
    model: 'own',
    category: 'SUV',
    variants: [ 'Earth Editon', '4x4 Diesel', 'LX' ],
    manufacturer: 'Mahindra',
    performance: 9,
    timestamp: ISODate('2024-01-15T00:00:00.000Z'),
    price: 1750000
  },
  {
    _id: ObjectId('699ff72963ac447d667c290d'),
    vehicle_name: 'Verna',
    model: 'own',
    category: 'Sedan',
```

**VIT-AP UNIVERSITY, ANDHRA PRADESH**

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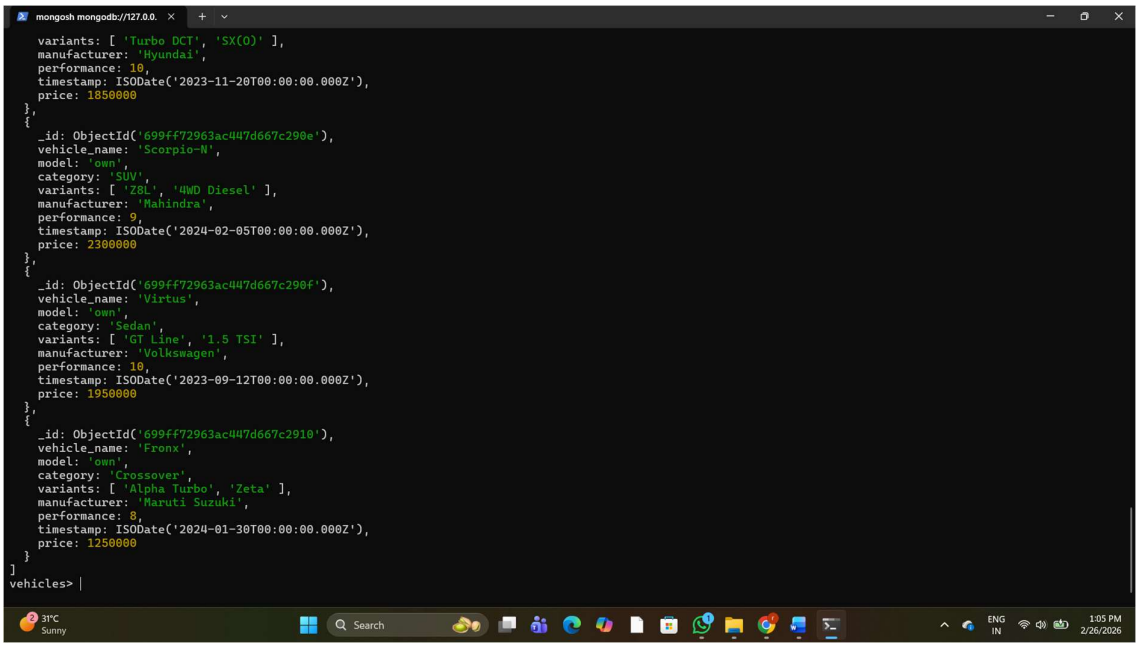
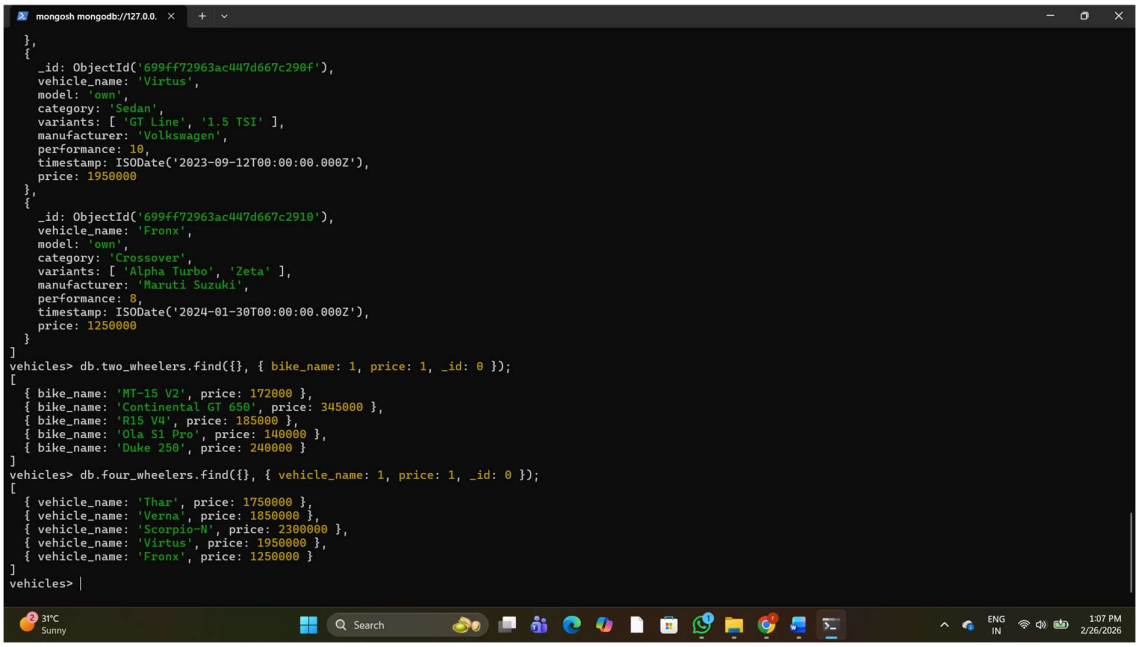



7. Write a MongoDB query to display only vehicle name and price in all the collection of the database



**VIT-AP UNIVERSITY, ANDHRA PRADESH**

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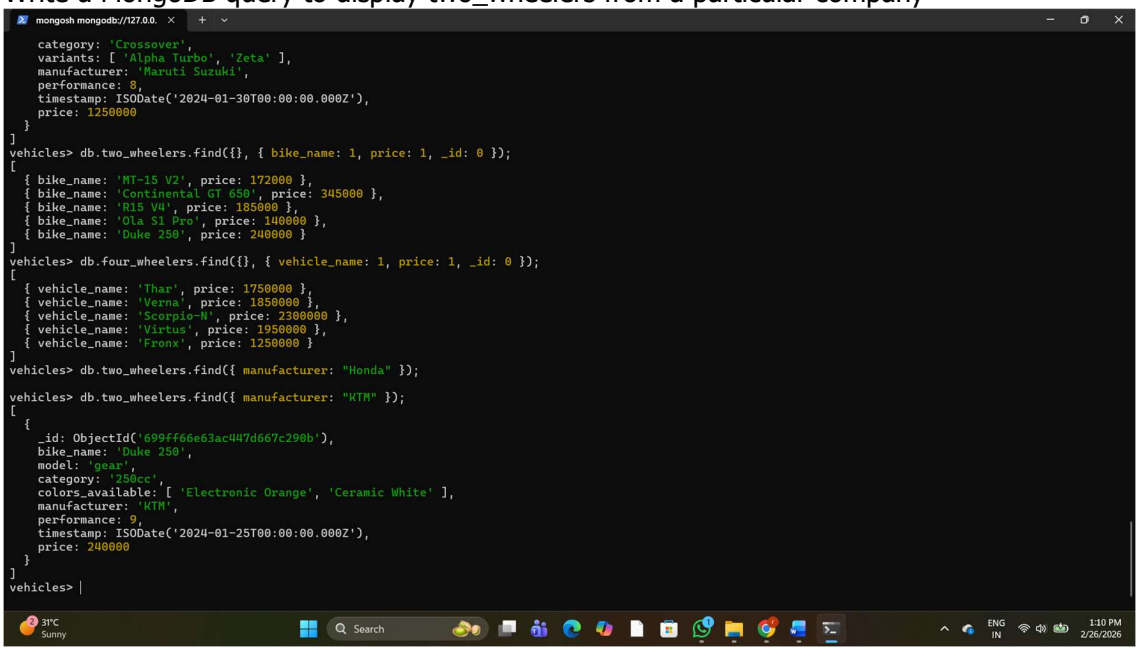
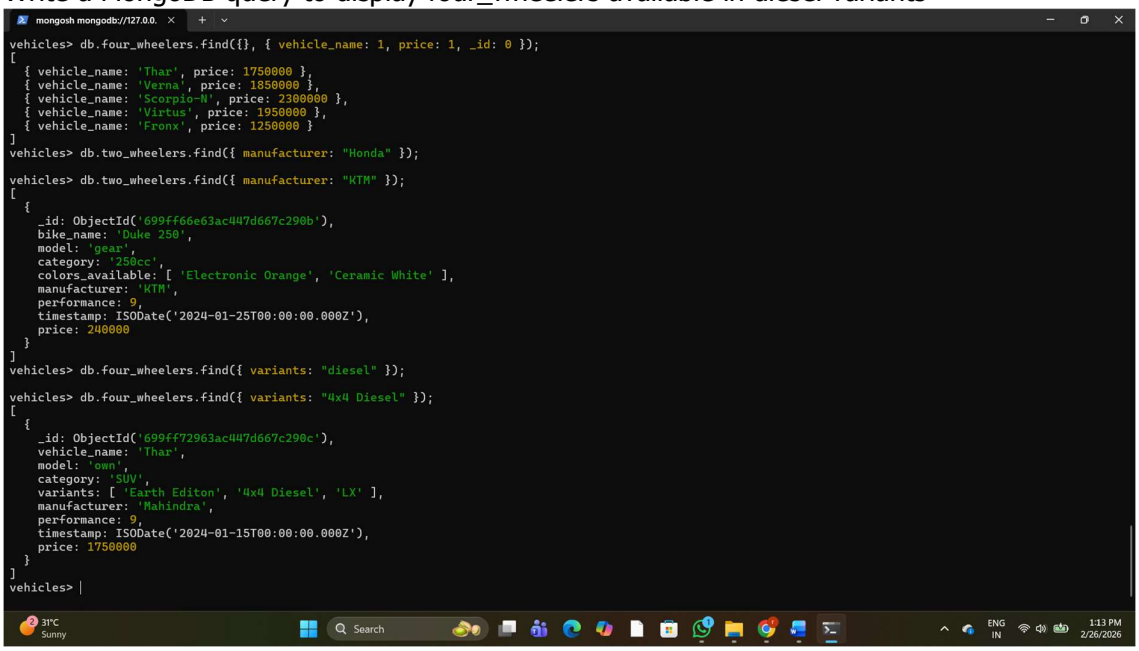
8. Write a MongoDB query to display two_wheelers from a particular company




9. Write a MongoDB query to display four_wheelers available in diesel variants



**VIT-AP UNIVERSITY, ANDHRA PRADESH**

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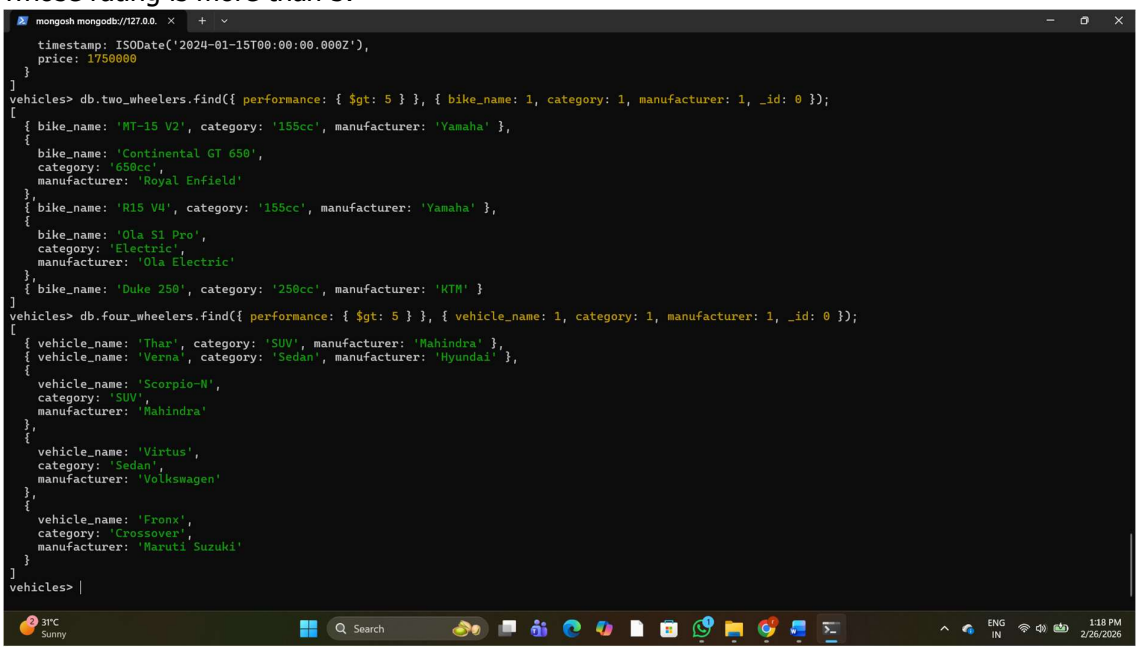
10. Write a MongoDB query to display vehicles name, category and manufacturer details whose rating is more than 5.




2. Use MongoDB to implement the following DB operations for a Zoo

**VIT-AP UNIVERSITY, ANDHRA PRADESH**

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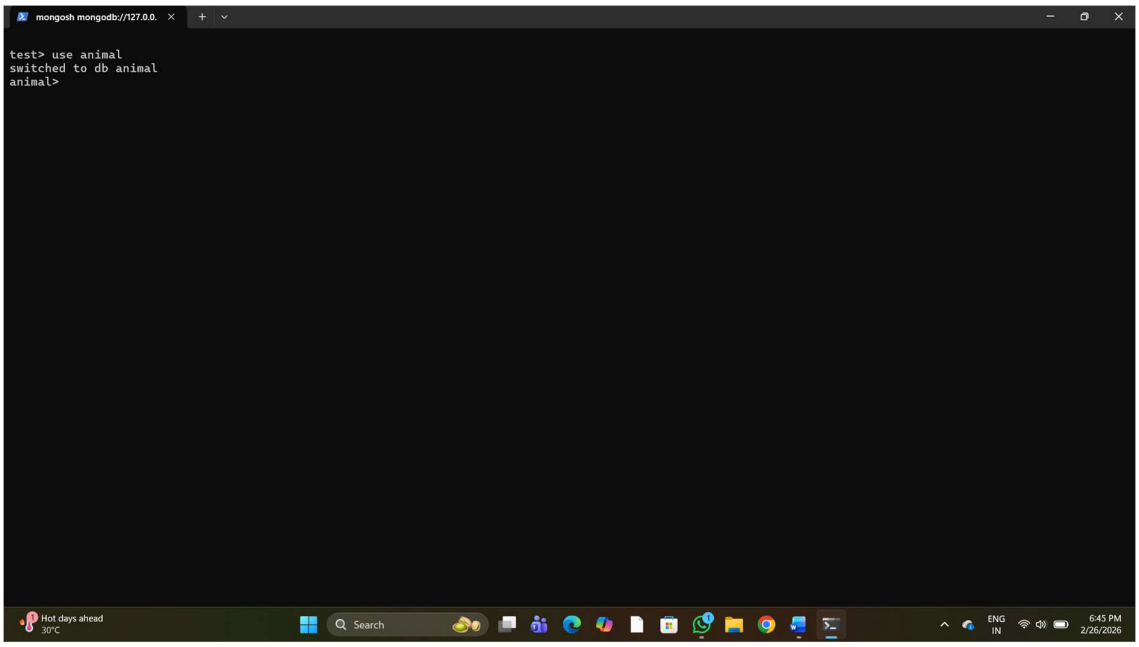
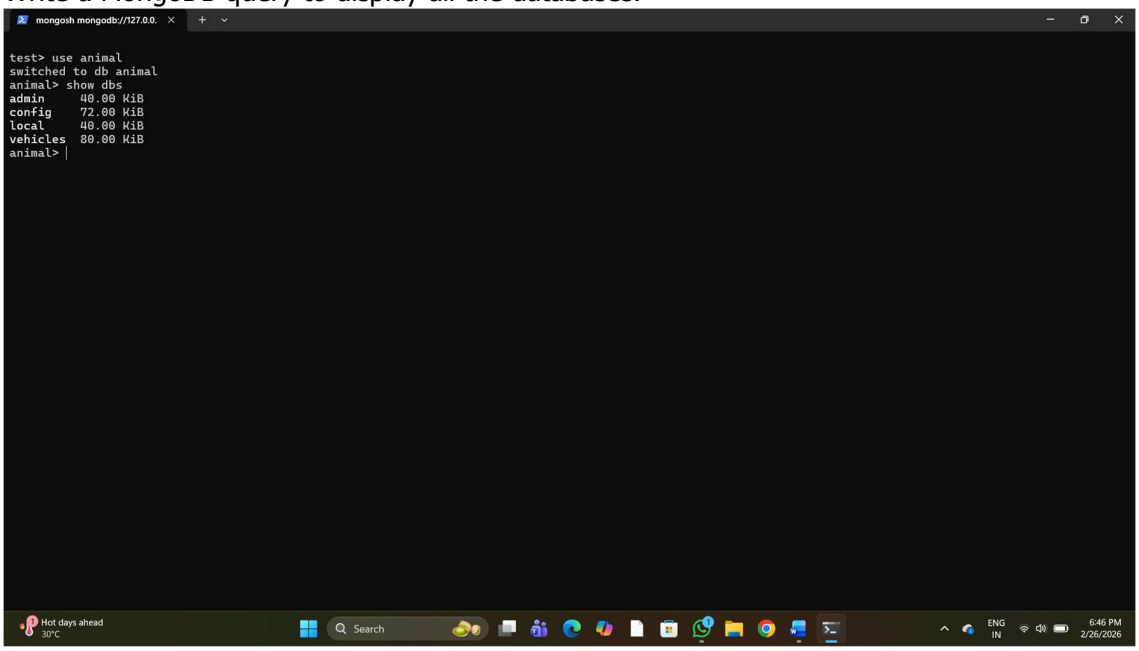
1. Create a database called 'animal' and *write* a MongoDB query to select database as 'animal'.




2. Write a MongoDB query to display all the databases.



**VIT-AP UNIVERSITY, ANDHRA PRADESH**

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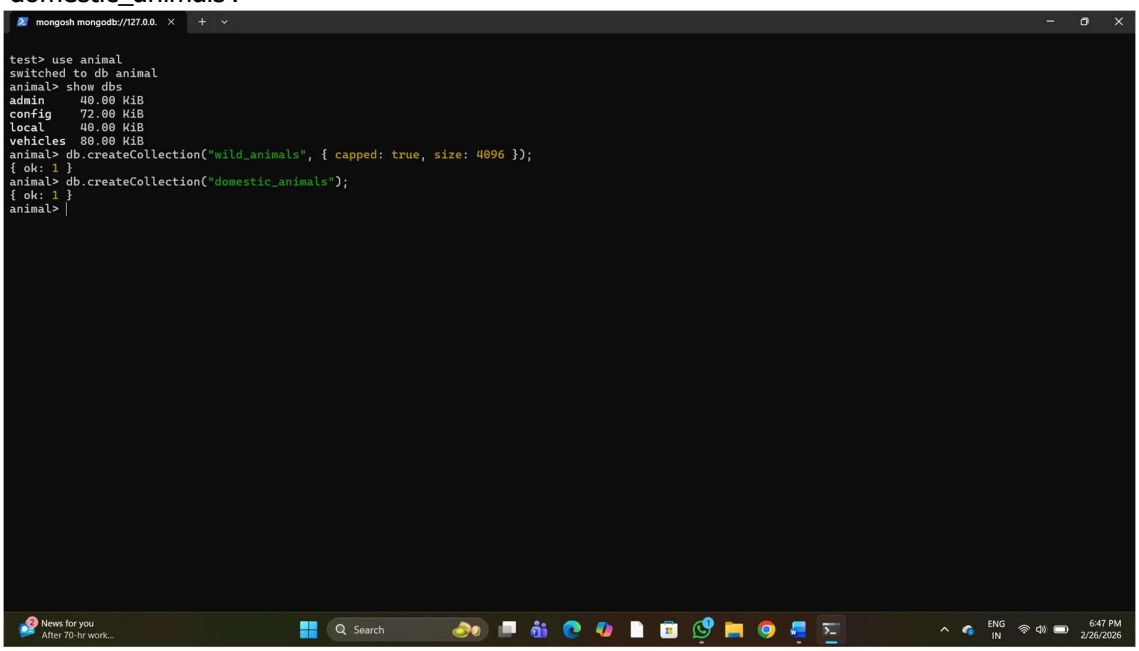
3. Create a collection called 'wild_animals'.(use capping) and Create a collection called 'domestic_animals'.




4. Add 5 wild_animal details to the collection named 'wild_animals'. Each document consists of following fields as animal_name, nature (harm or harmless), favorite_foods (meat, rabbits, deer etc) as array, care_taker_name, life span (in years), timestamp (when the animal registered at the Zoo) and expenses.

**VIT-AP UNIVERSITY, ANDHRA PRADESH**

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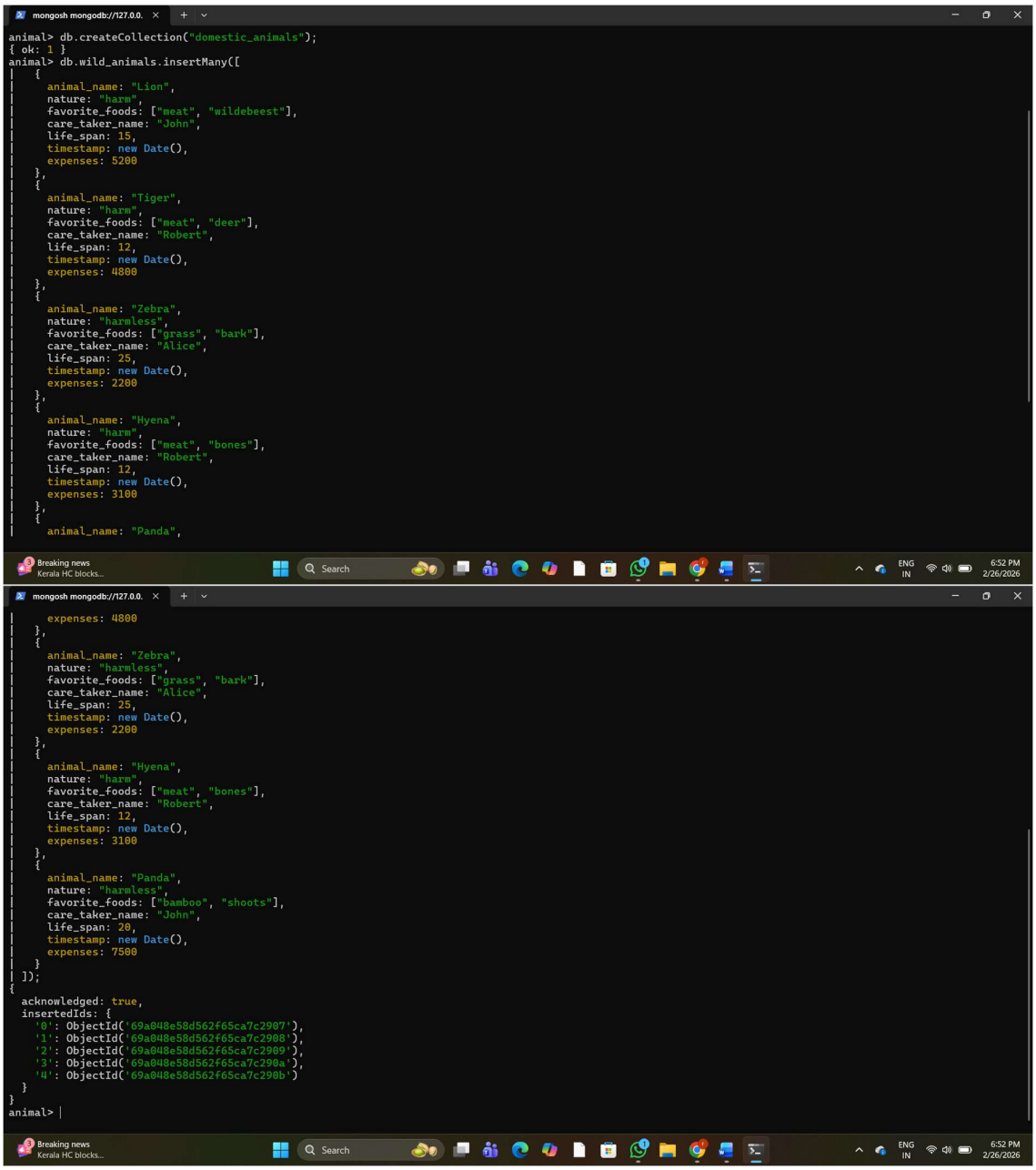

```
mongosh mongodb://127.0.0.
animal> db.createCollection("domestic_animals");
{ ok: 1 }
animal> db.wild_animals.insertMany([
|   {
|     animal_name: "Lion",
|     nature: "harm",
|     favorite_foods: ["meat", "wildebeest"],
|     care_taker_name: "John",
|     life_span: 15,
|     timestamp: new Date(),
|     expenses: 5200
|   },
|   {
|     animal_name: "Tiger",
|     nature: "harm",
|     favorite_foods: ["meat", "deer"],
|     care_taker_name: "Robert",
|     life_span: 12,
|     timestamp: new Date(),
|     expenses: 4800
|   },
|   {
|     animal_name: "Zebra",
|     nature: "harmless",
|     favorite_foods: ["grass", "bark"],
|     care_taker_name: "Alice",
|     life_span: 25,
|     timestamp: new Date(),
|     expenses: 2200
|   },
|   {
|     animal_name: "Hyena",
|     nature: "harm",
|     favorite_foods: ["meat", "bones"],
|     care_taker_name: "Robert",
|     life_span: 12,
|     timestamp: new Date(),
|     expenses: 3100
|   },
|   {
|     animal_name: "Panda",
```



```
mongosh mongodb://127.0.0.
|     expenses: 4800
|   },
|   {
|     animal_name: "Zebra",
|     nature: "harmless",
|     favorite_foods: ["grass", "bark"],
|     care_taker_name: "Alice",
|     life_span: 25,
|     timestamp: new Date(),
|     expenses: 2200
|   },
|   {
|     animal_name: "Hyena",
|     nature: "harm",
|     favorite_foods: ["meat", "bones"],
|     care_taker_name: "Robert",
|     life_span: 12,
|     timestamp: new Date(),
|     expenses: 3100
|   },
|   {
|     animal_name: "Panda",
|     nature: "harmless",
|     favorite_foods: ["bamboo", "shoots"],
|     care_taker_name: "John",
|     life_span: 20,
|     timestamp: new Date(),
|     expenses: 7500
|   }
| ]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('69a048e58d562f65ca7c2907'),
    '1': ObjectId('69a048e58d562f65ca7c2908'),
    '2': ObjectId('69a048e58d562f65ca7c2909'),
    '3': ObjectId('69a048e58d562f65ca7c290a'),
    '4': ObjectId('69a048e58d562f65ca7c290b')
  }
}
animal>
```



5. Add 5 domestic-animal details to the collection named 'domestic_animals'. Each document consists of following fields as animal_name, gender (male or female), favorite_foods (meat, rabbits, deer etc) as array, animal_petname, life span (in years), timestamp (when the animal registered at the Zoo) and expenses.

**VIT-AP UNIVERSITY, ANDHRA PRADESH**

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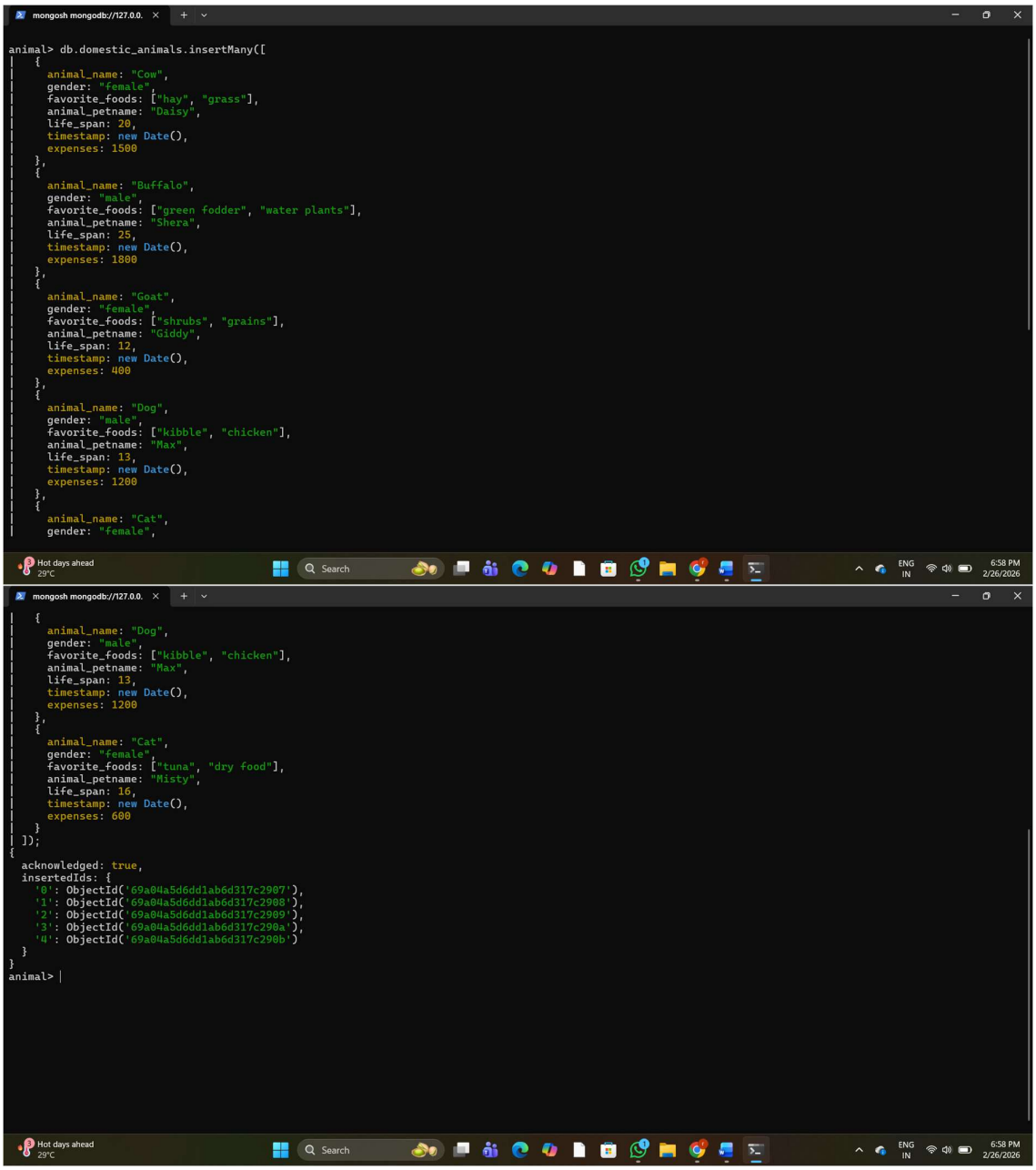


6. Write a MongoDB query to display all documents available in wild_animals and domastic_animals.

**VIT-AP UNIVERSITY, ANDHRA PRADESH**

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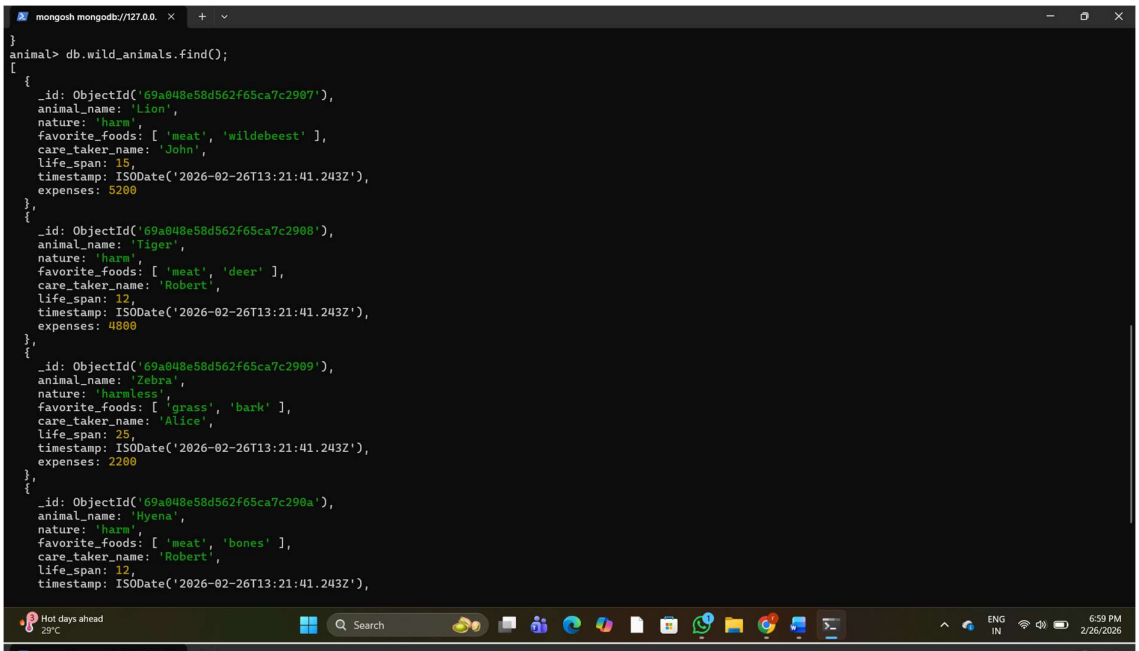


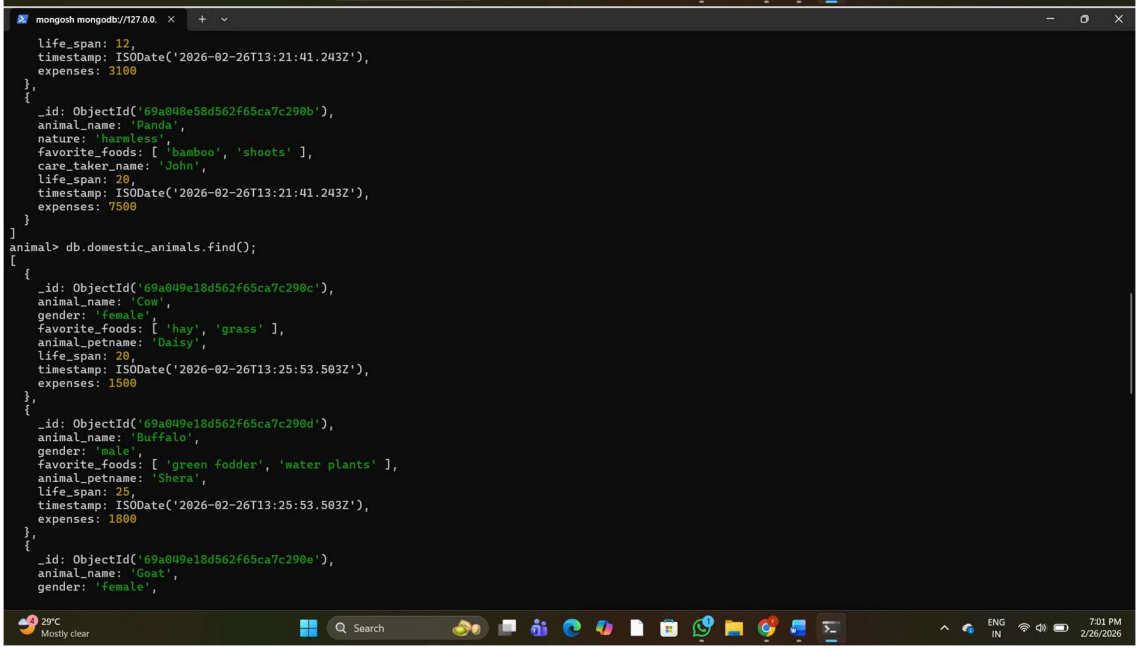

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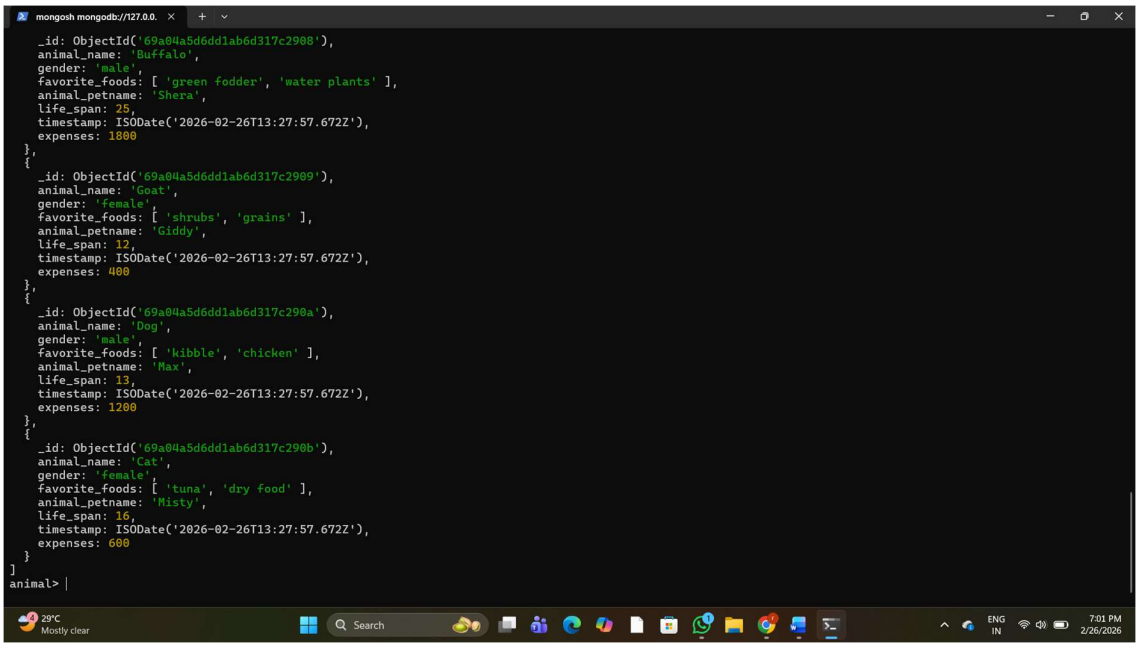
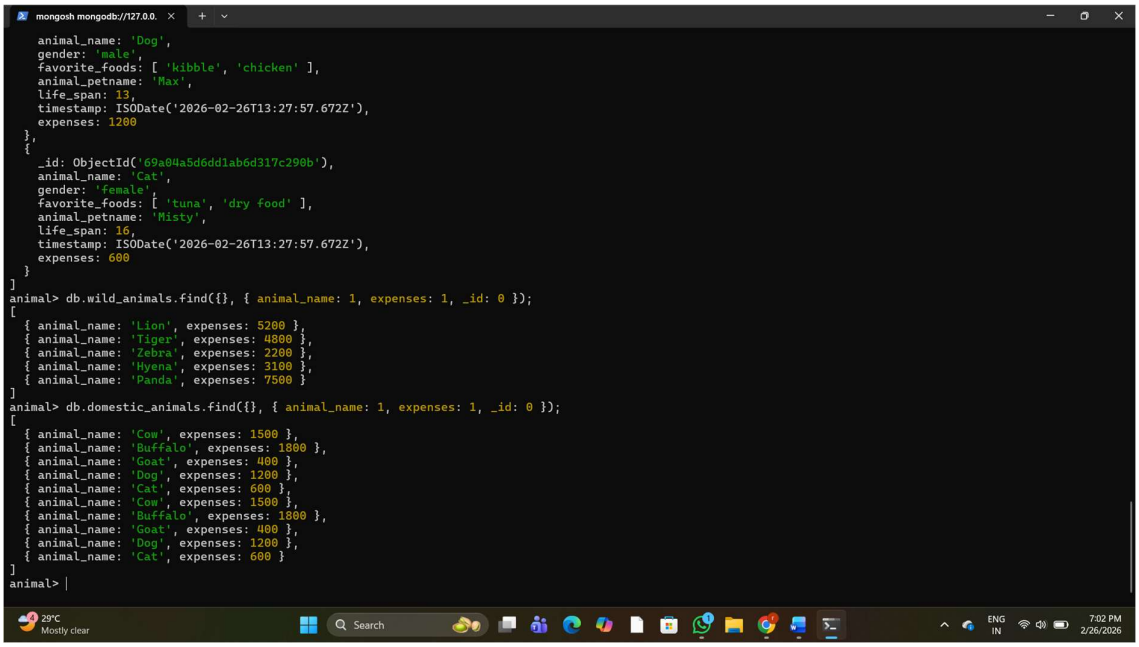



7. Write a MongoDB query to display only animal name and expenses in all the collection of the database




8. Write a MongoDB query to display domestic_animals whose life is a particular year

**VIT-AP UNIVERSITY, ANDHRA PRADESH**

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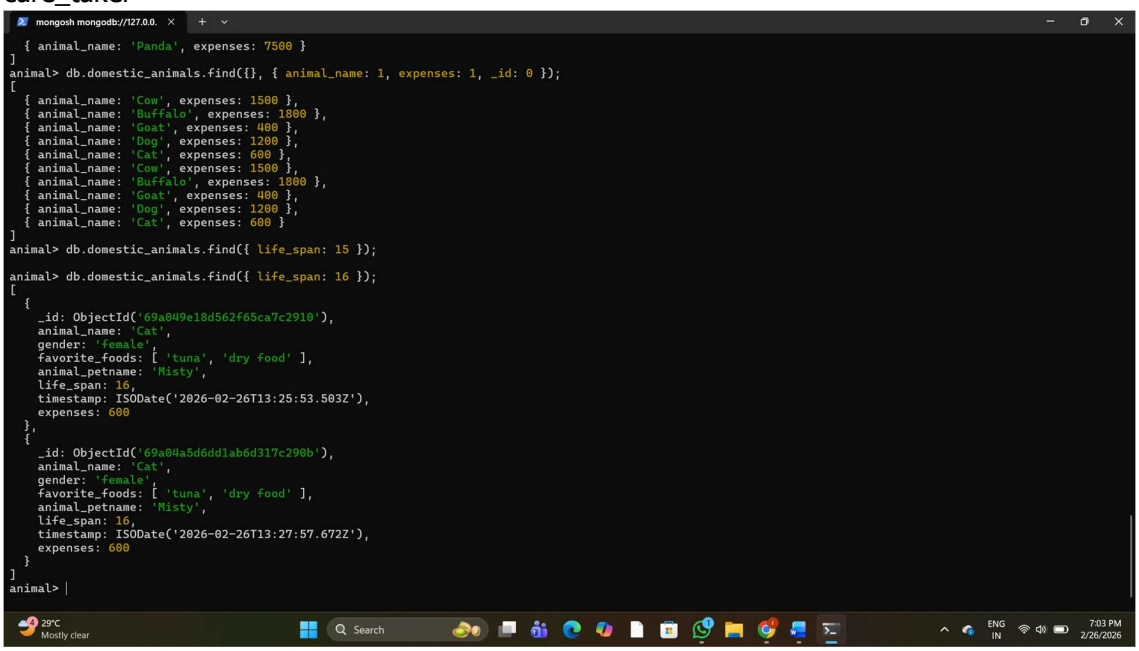
9. Write a MongoDB query to display wild_animals available under a particular care_taker




10. Write a MongoDB query to display animal name, favorite_foods and expenses details whose lifespan is more than 5 years.

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