VIT-AP UNIVERSITY, ANDHRA PRADESH

Lab Sheet 6: MongoDB Basic commands

Branch/ Class: B.Tech/M.Tech **Date: 26-02-2026**

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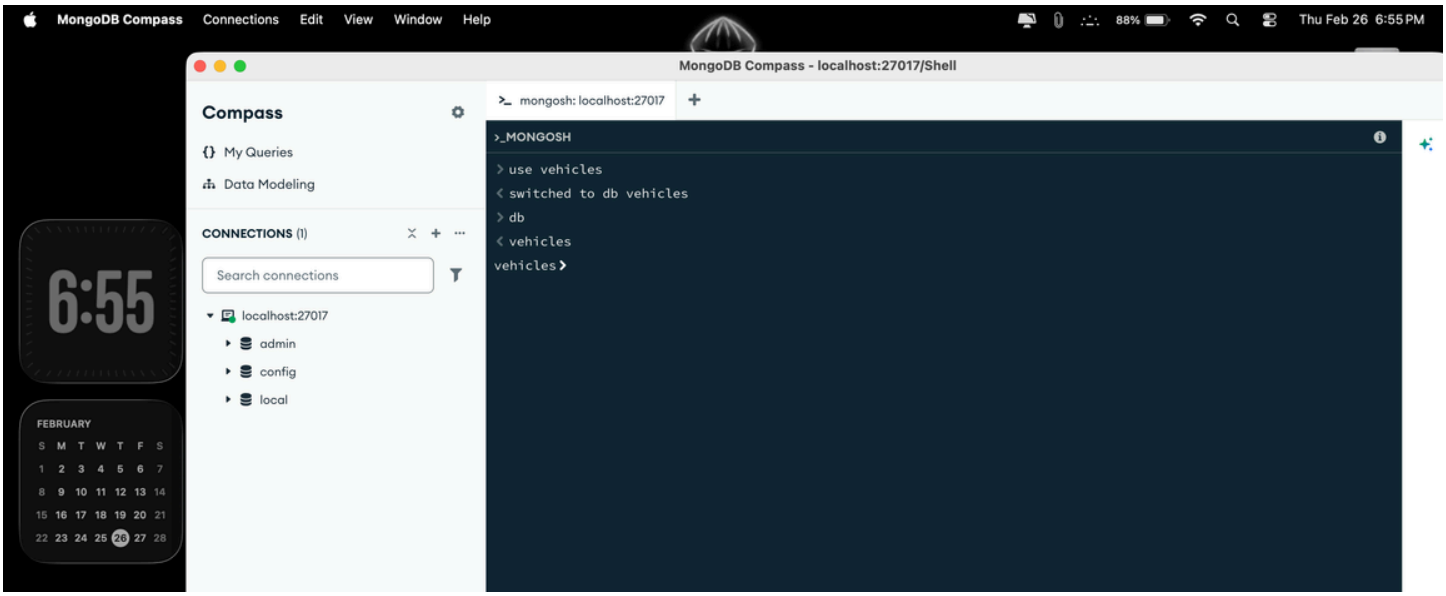
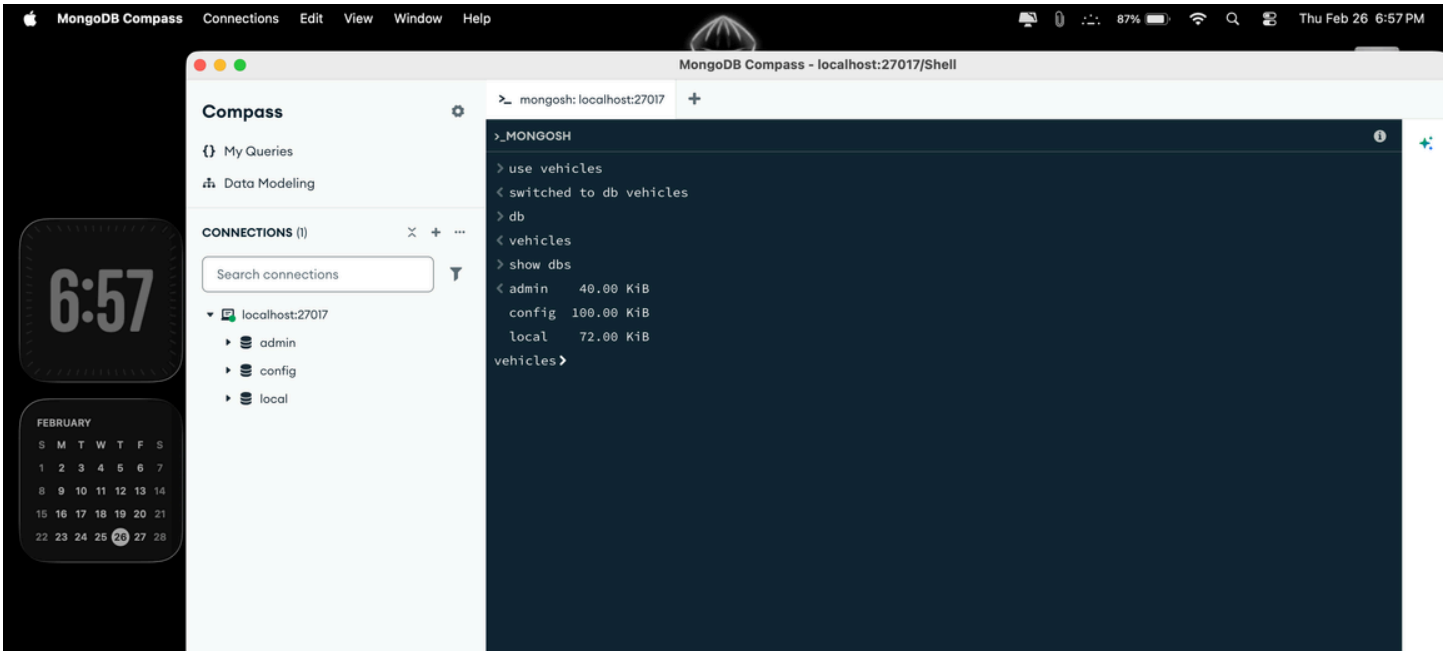
VIT-AP UNIVERSITY

1. Use MongoDB to implement the following DB operations :

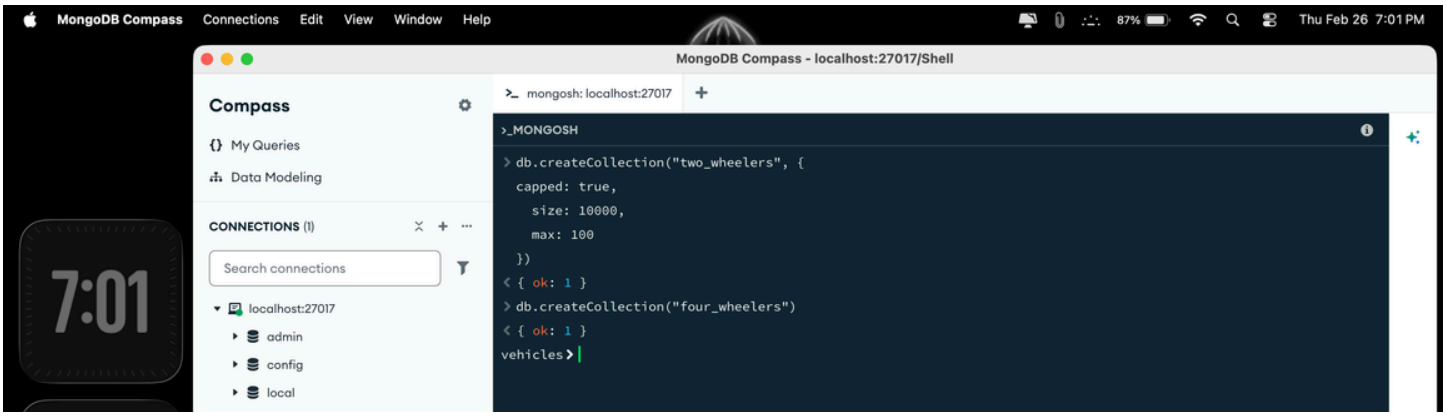
1) Create a database called 'vehicles' and write a MongoDB query to select database as "vehicles".



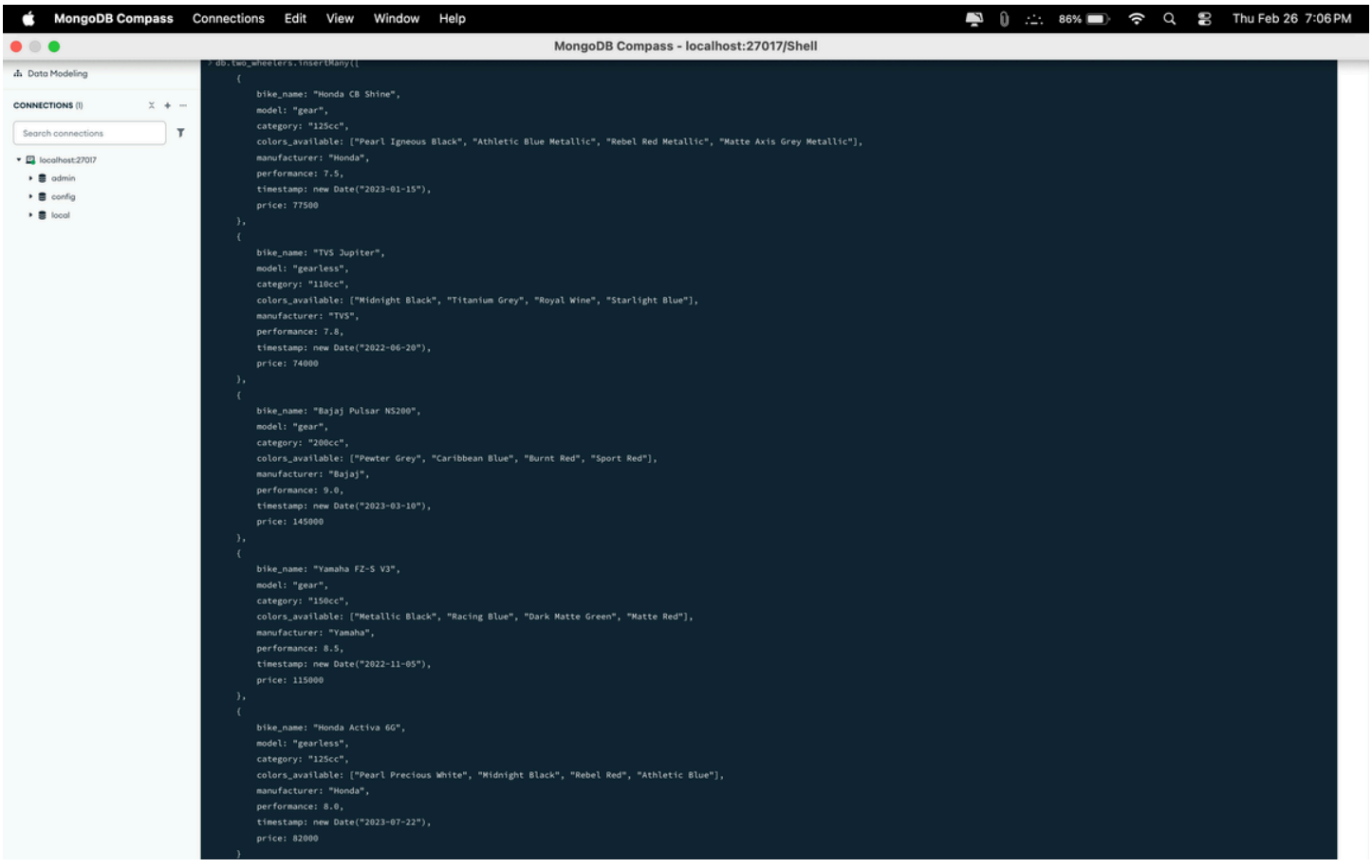
2) Write a MongoDB query to display all the databases.



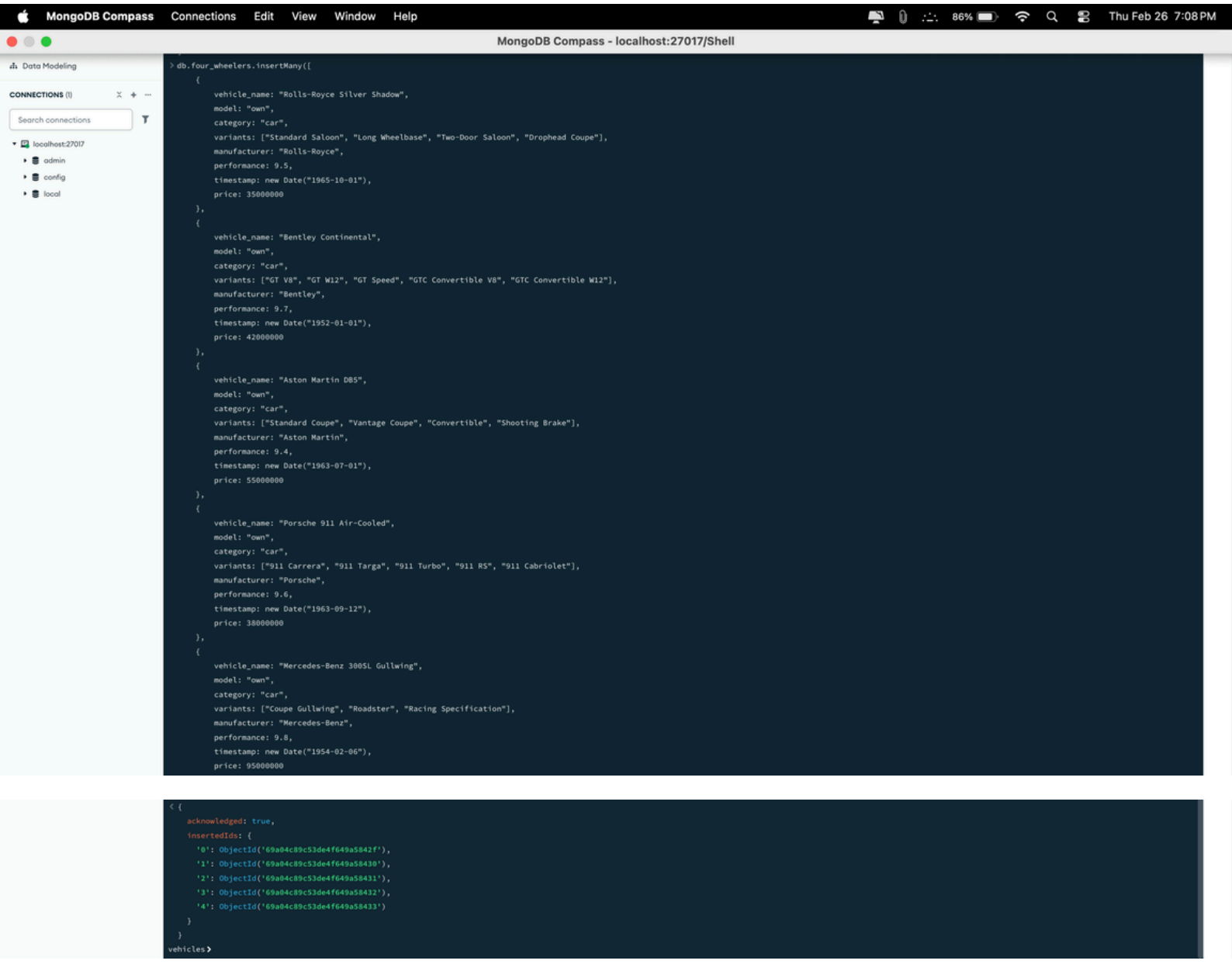
3) Create a collection called 'two_wheelers'. (use capping) and Create a collection called 'four_wheelers'.



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.

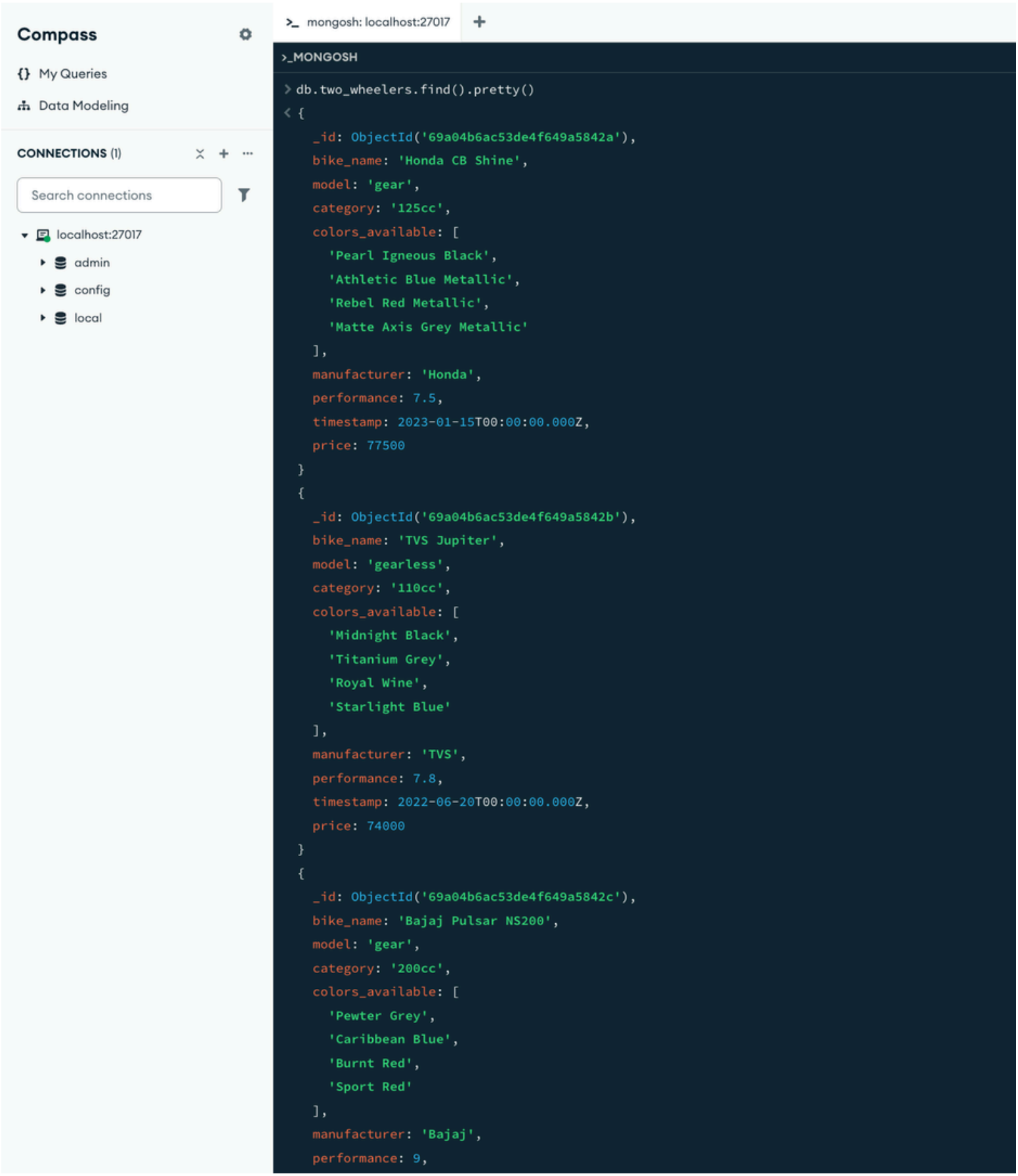


5)Add 5 four-wheeler details to the collection named 'four_wheelers'. Each document consists of following fields as vehicle_name, model (commercial or own), category (car, lorry, bus, mini truck, heavy truck, containers), variants (vxi, zxi, petrol, diesel etc) as array, manufacturer, performance (out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

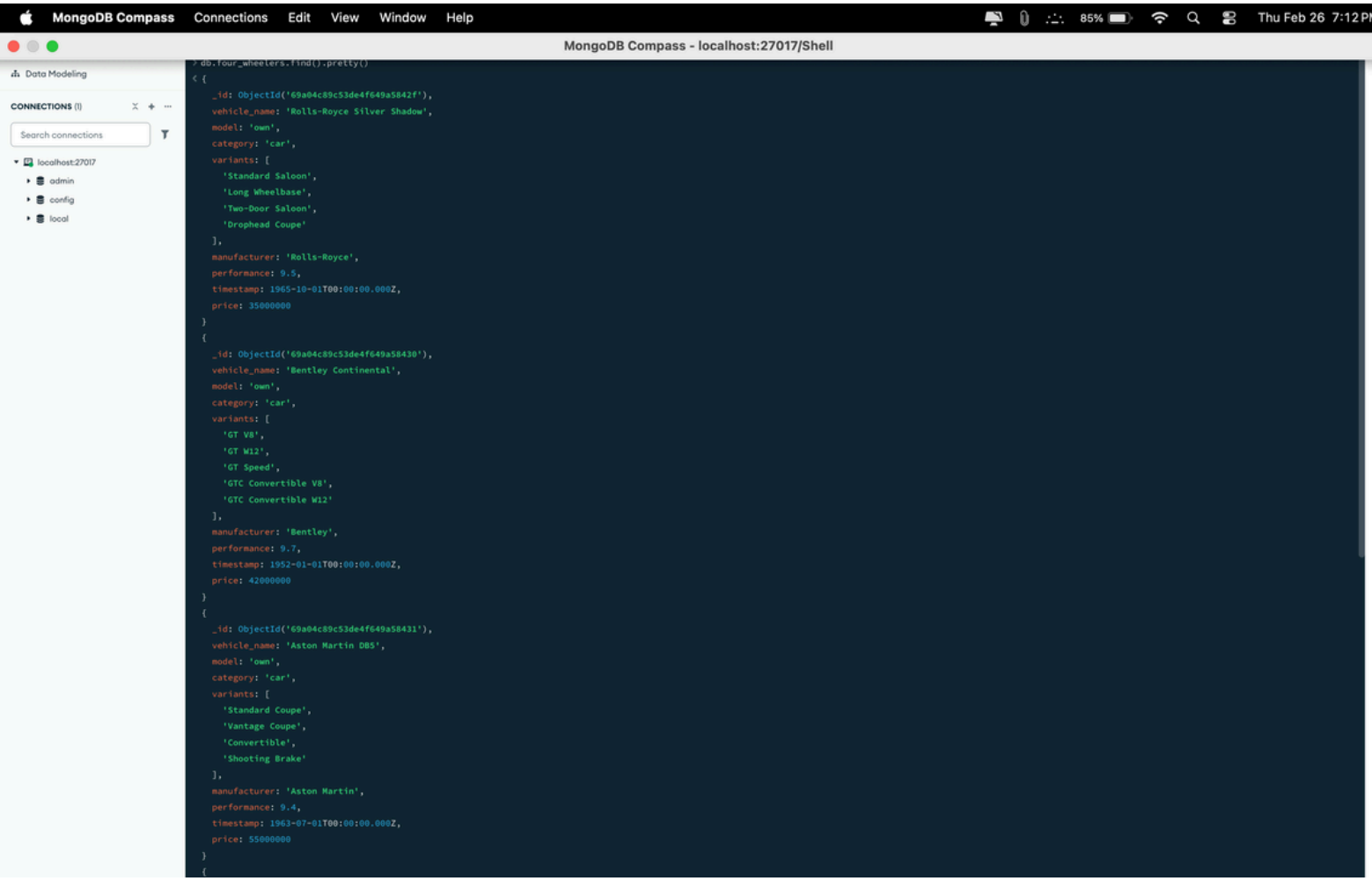


6) Write a MongoDB query to display all documents available in two_wheelers and four_wheelers.

→ Documents from two.wheelers :

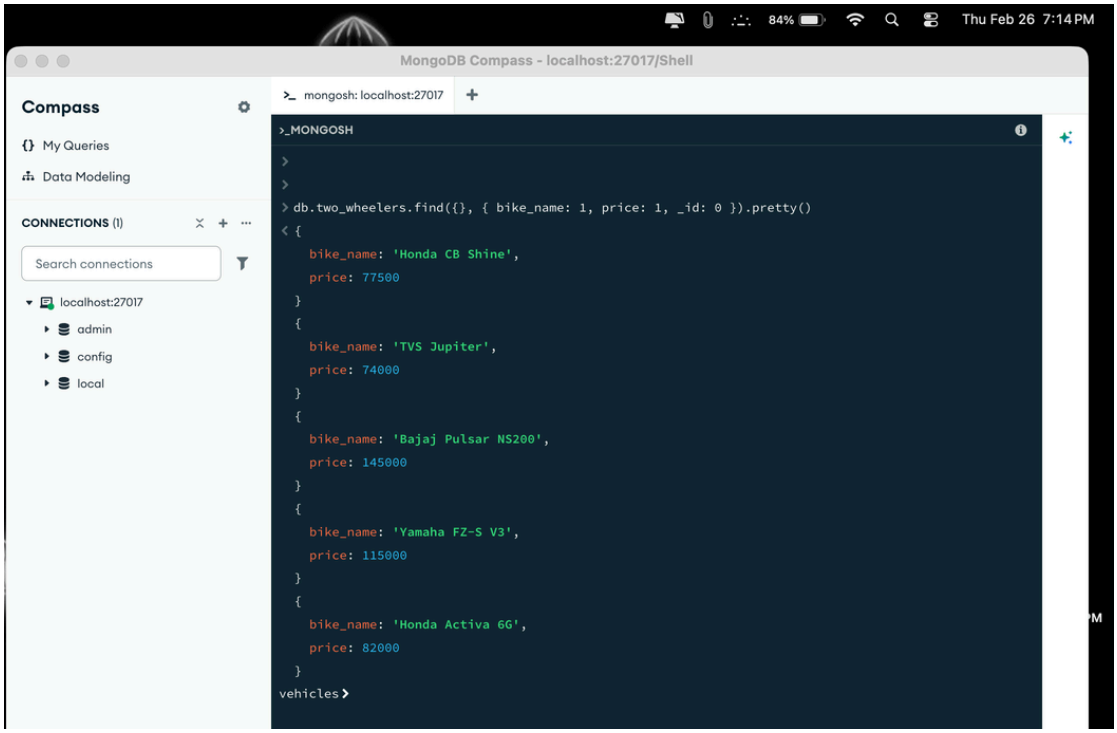


➜ Documents from four.wheelers :

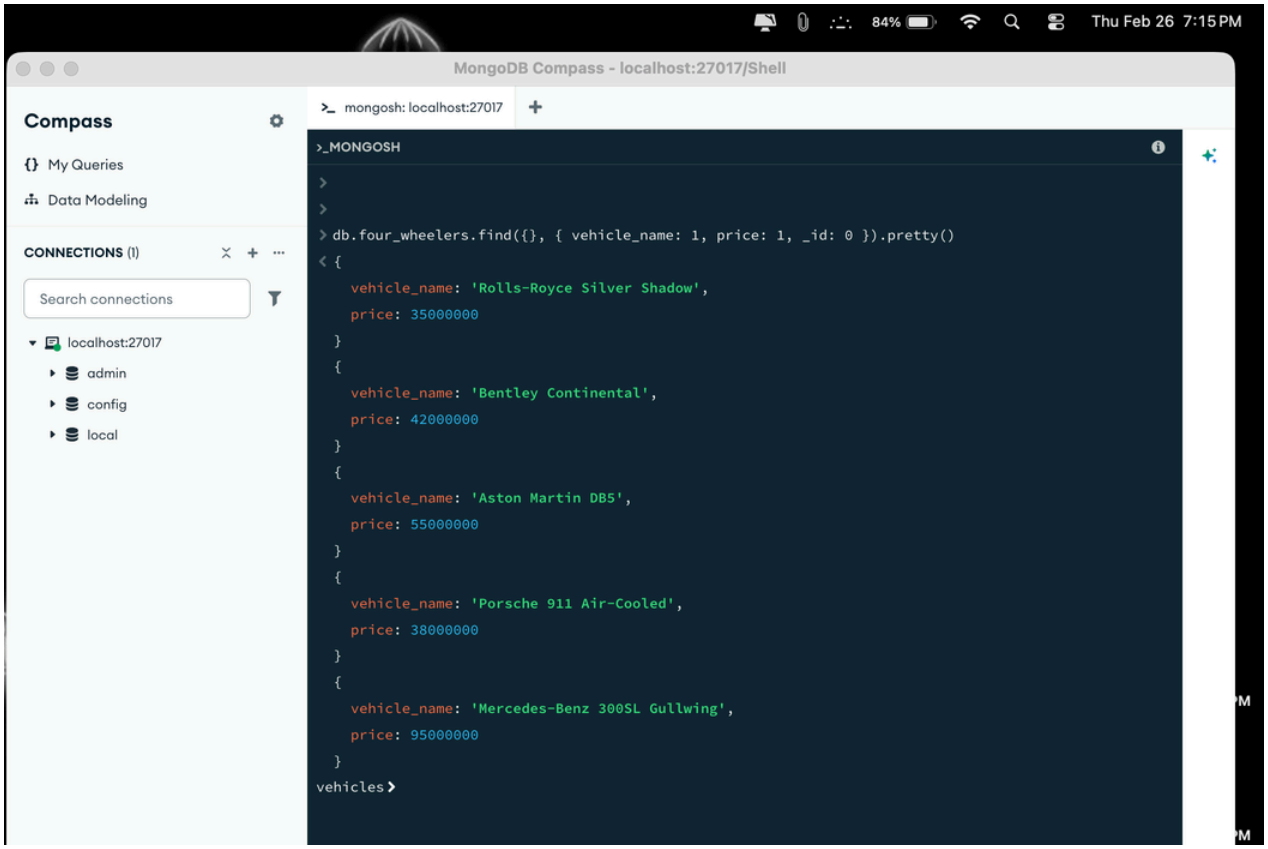


7) Write a MongoDB query to display only vehicle name and price in all the collection of the database

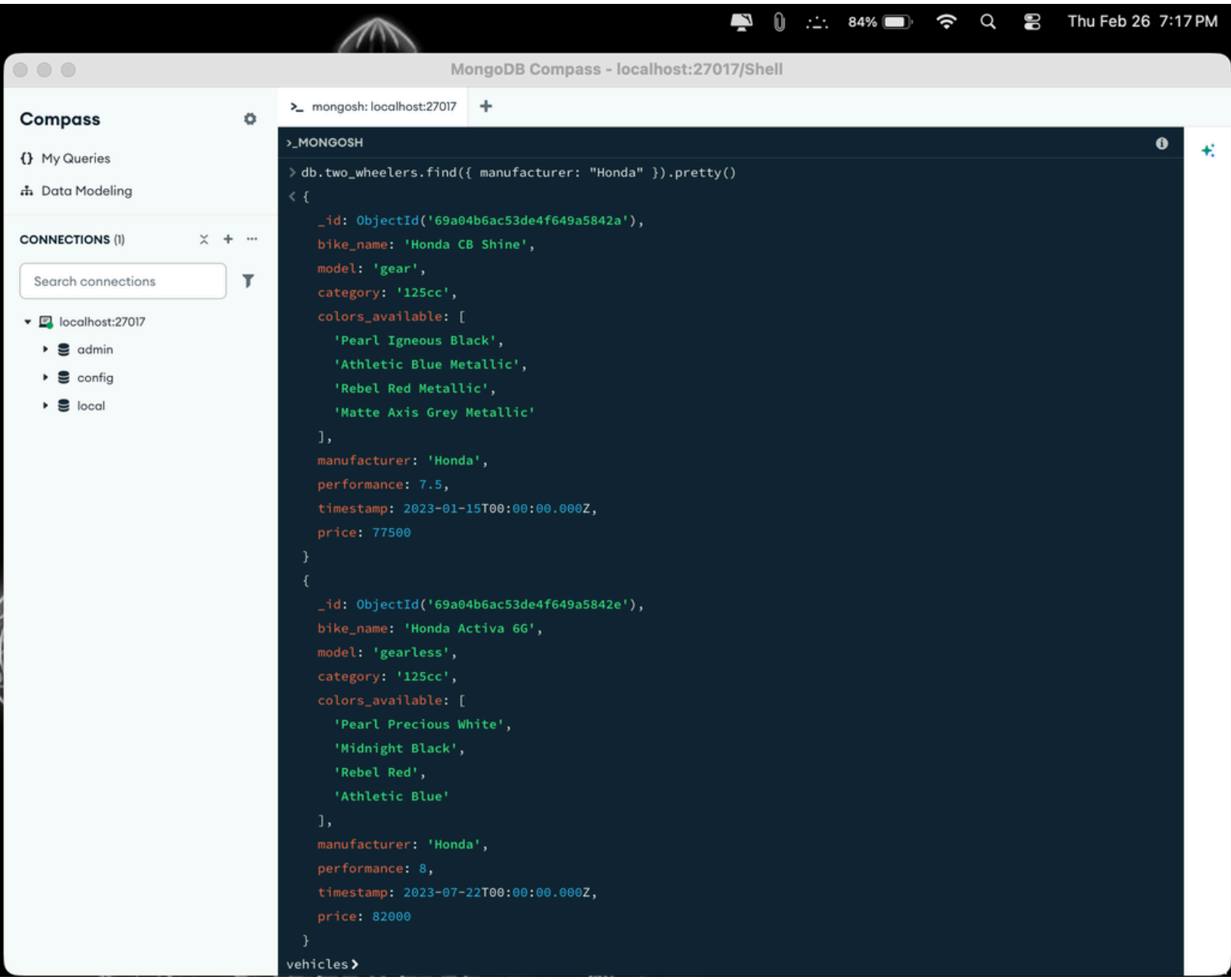
→ From two.wheelers :



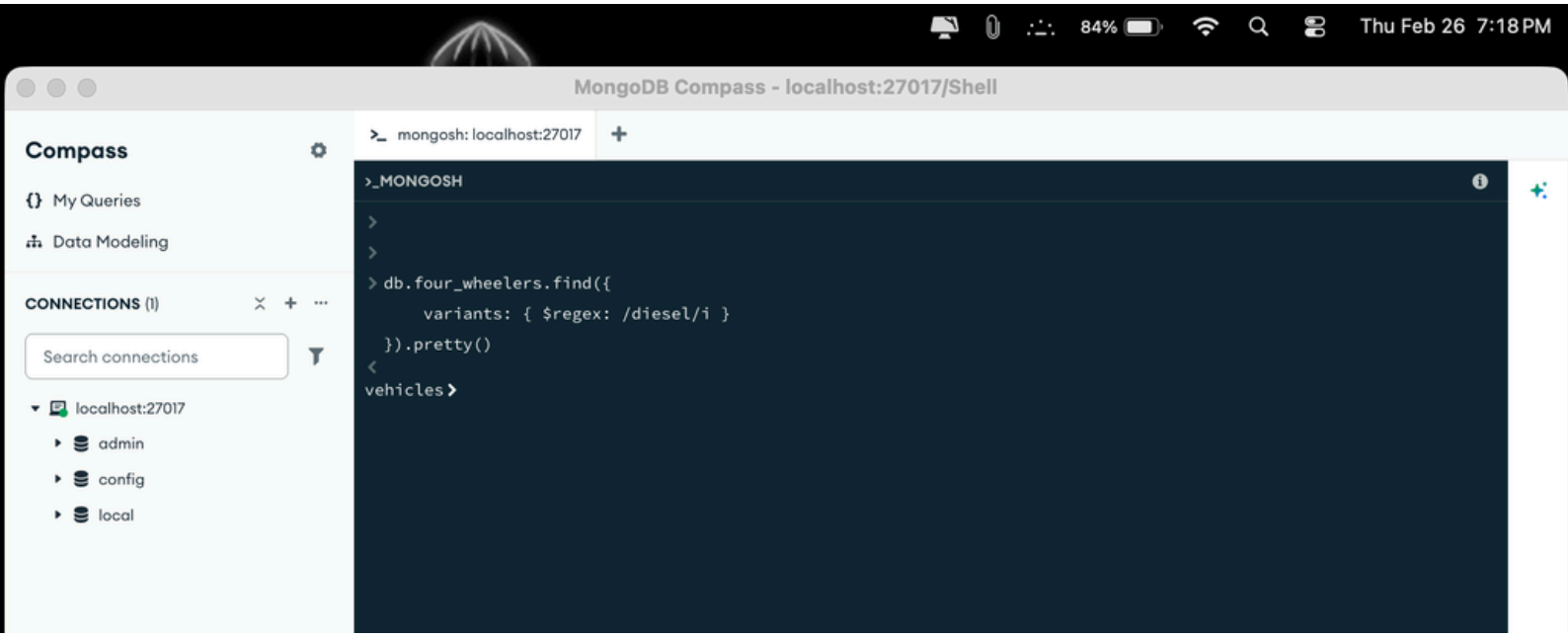
→ From four.wheelers :



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

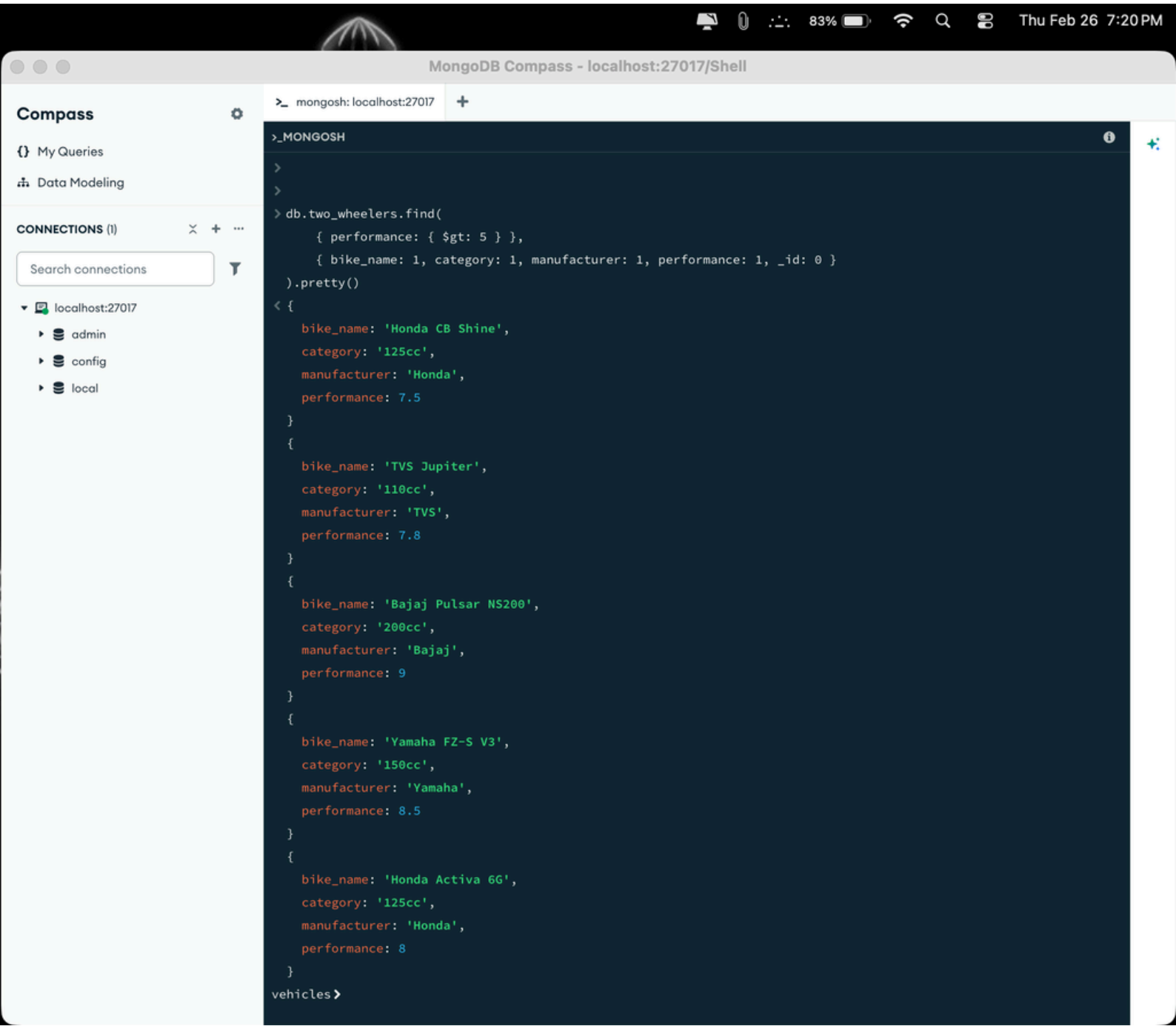


9) Write a MongoDB query to display four_wheelers available in diesel variants

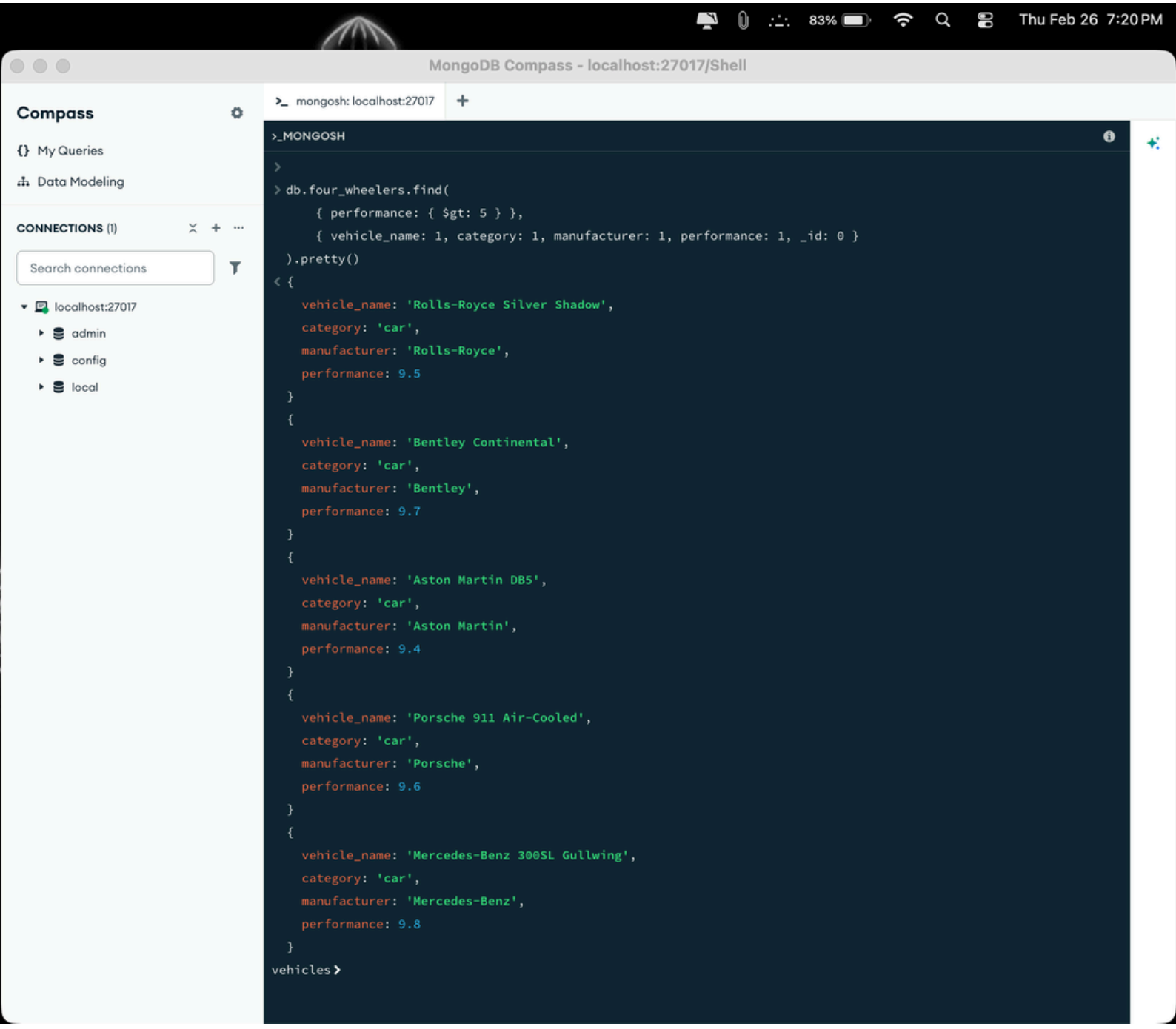


10) Write a MongoDB query to display vehicles name, category and manufacturer details whose rating is more than 5.

→ From two wheelers :

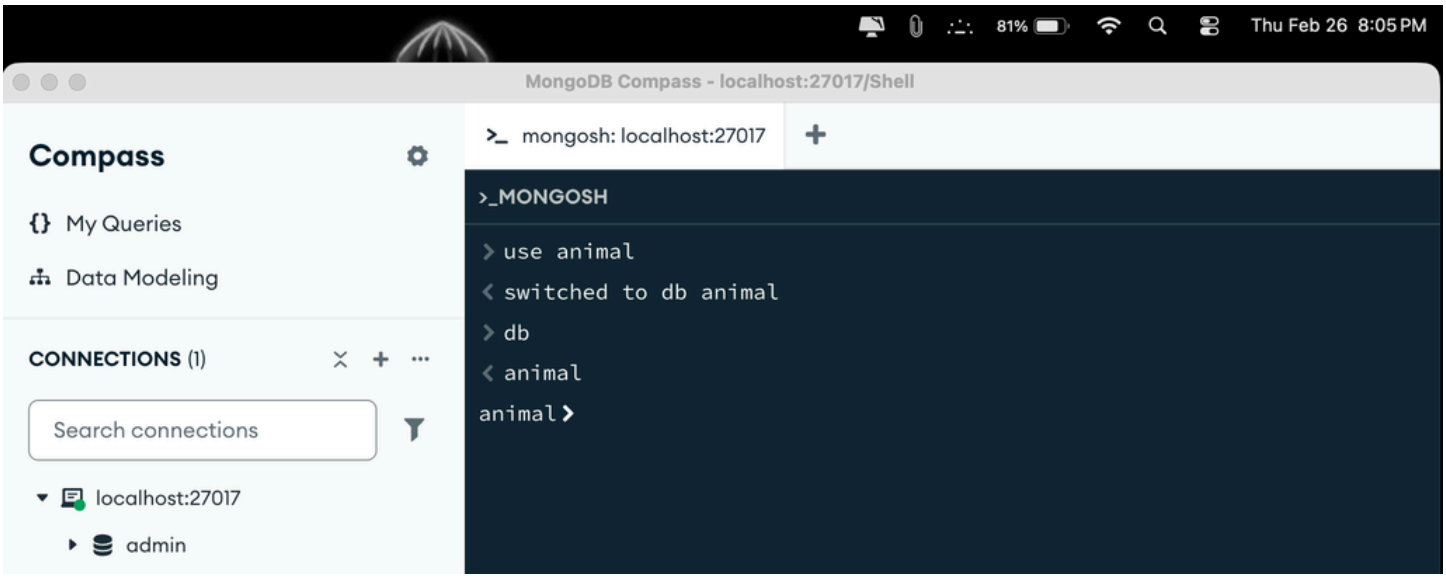


→ From four wheelers :

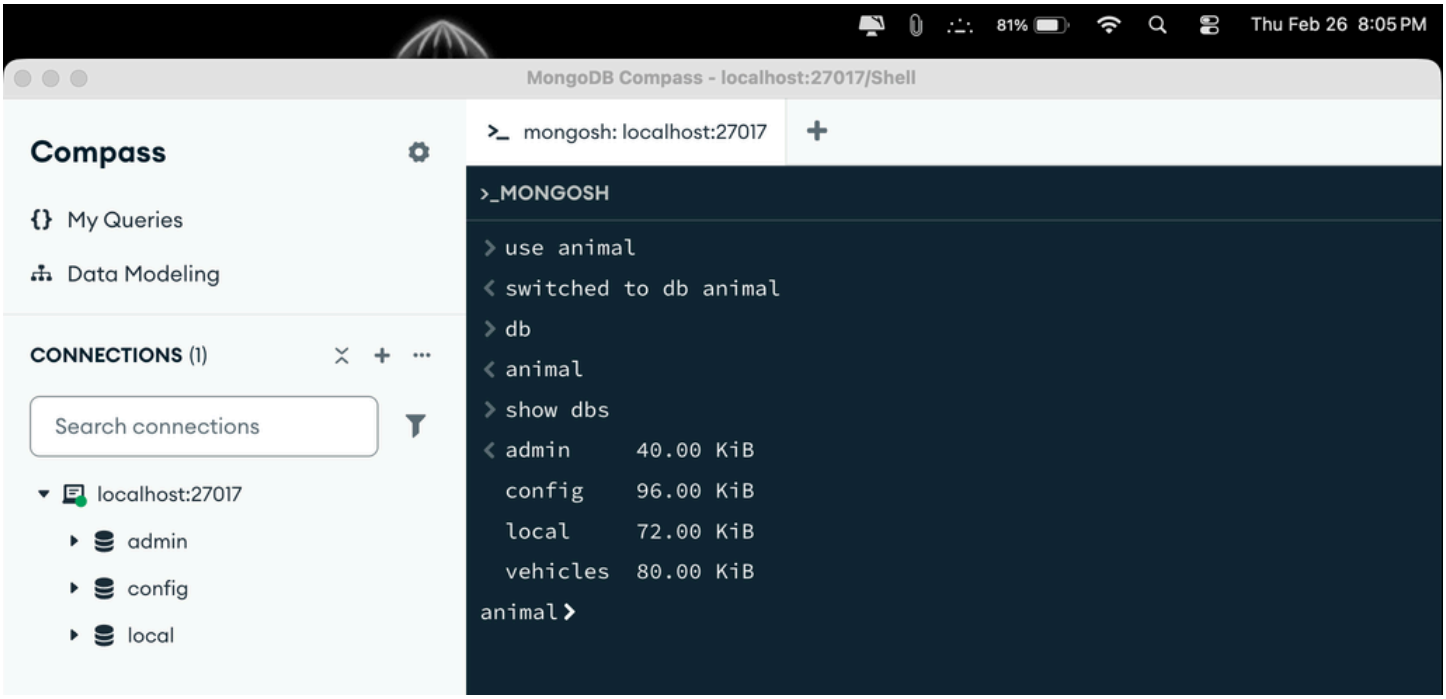


2. Use MongoDB to implement the following DB operations for a Zoo

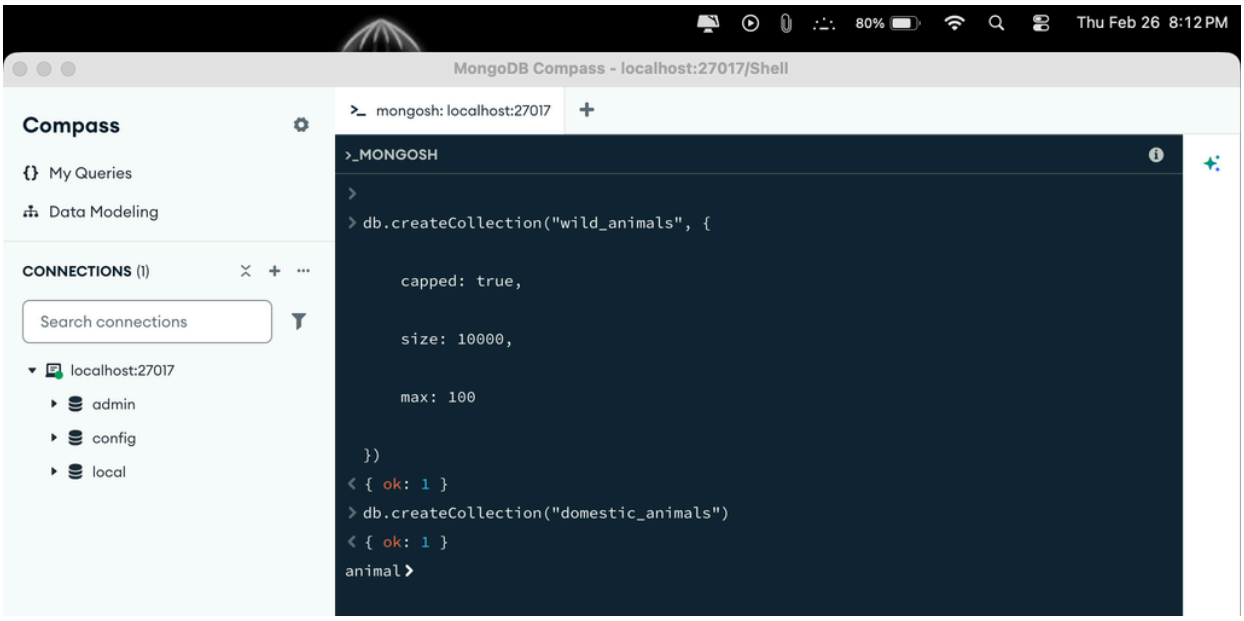
1) Create a database called 'animal' and write a MongoDB query to select database as "animal".



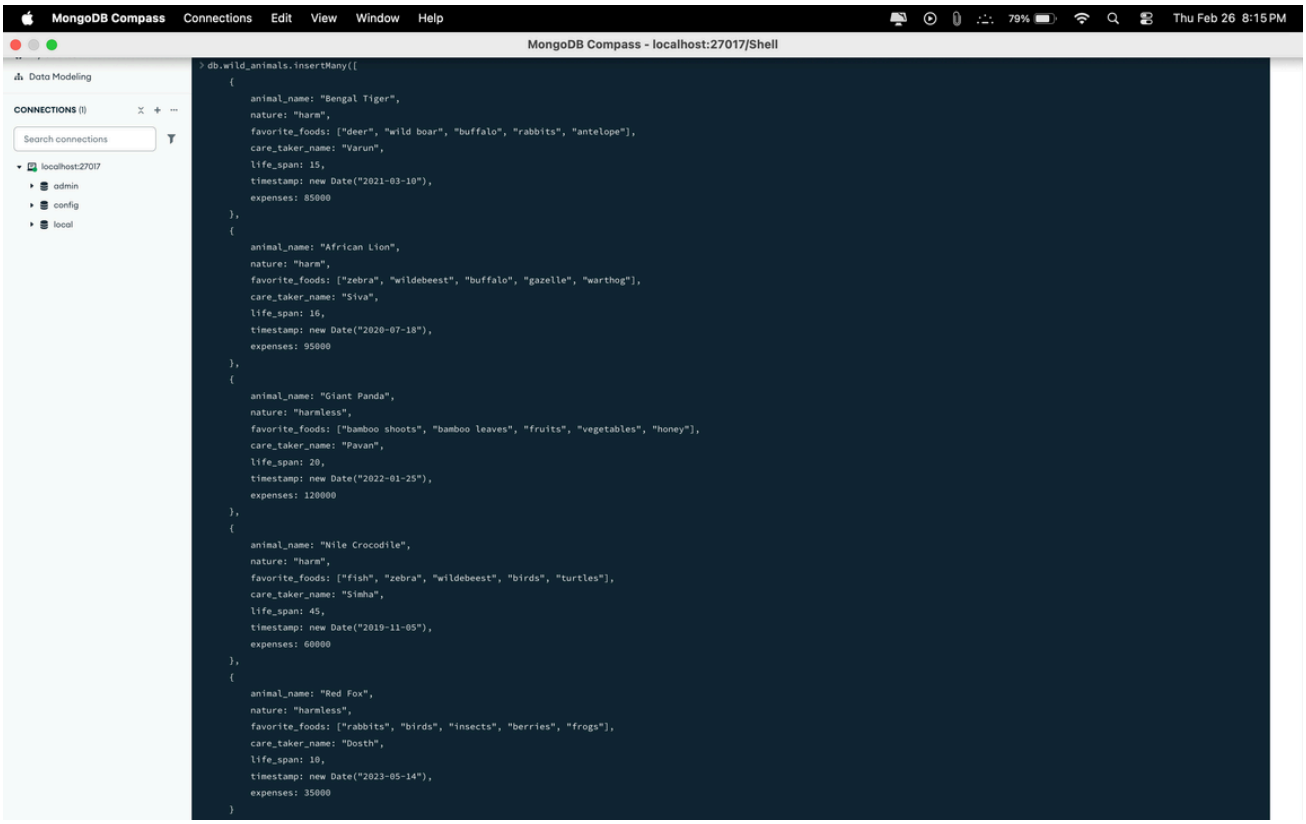
2) Write a MongoDB query to display all the databases.



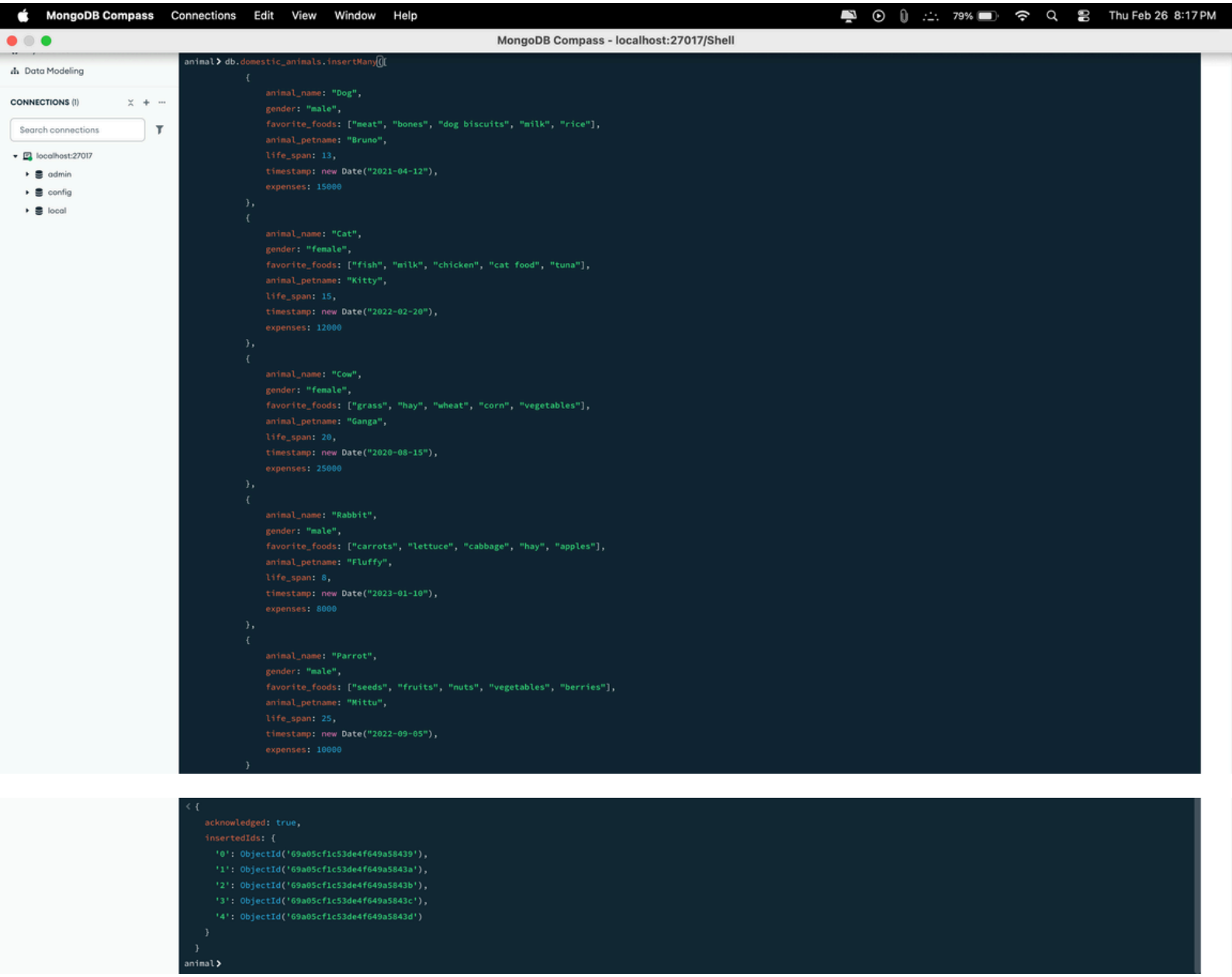
3) Create a collection called 'wild_animals'. (use capping) and Create a collection called 'domestic_animals'.



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.

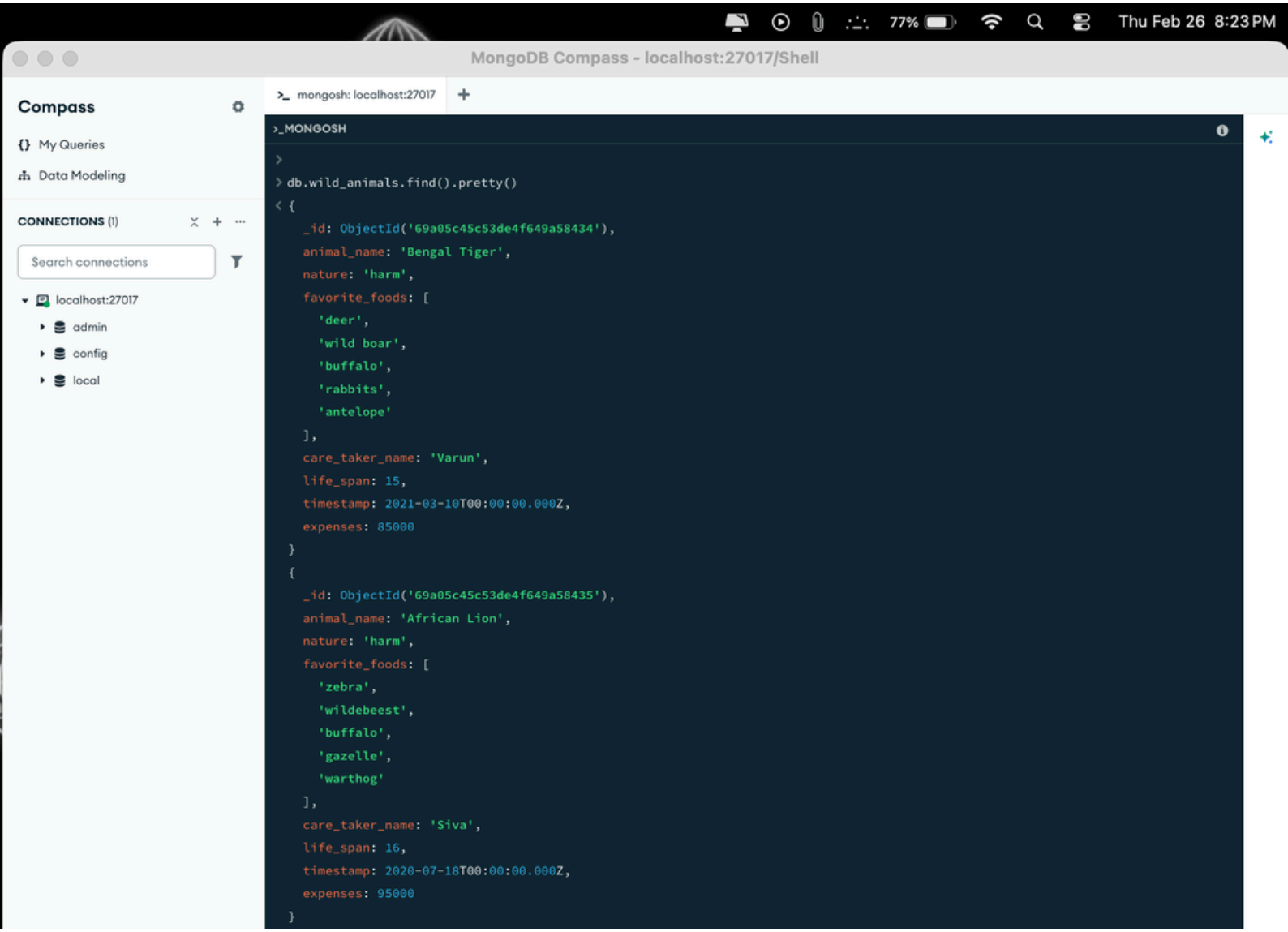


5)Add 5 domestic-animal details to the collection named 'domestic_animals'. Each document consists of following fields as animal_name, gender (male or female), favorite_foods (meat, rabbits, deer etc) as array, animal_petname, life span (in years), timestamp (when the animal registered at the Zoo) and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

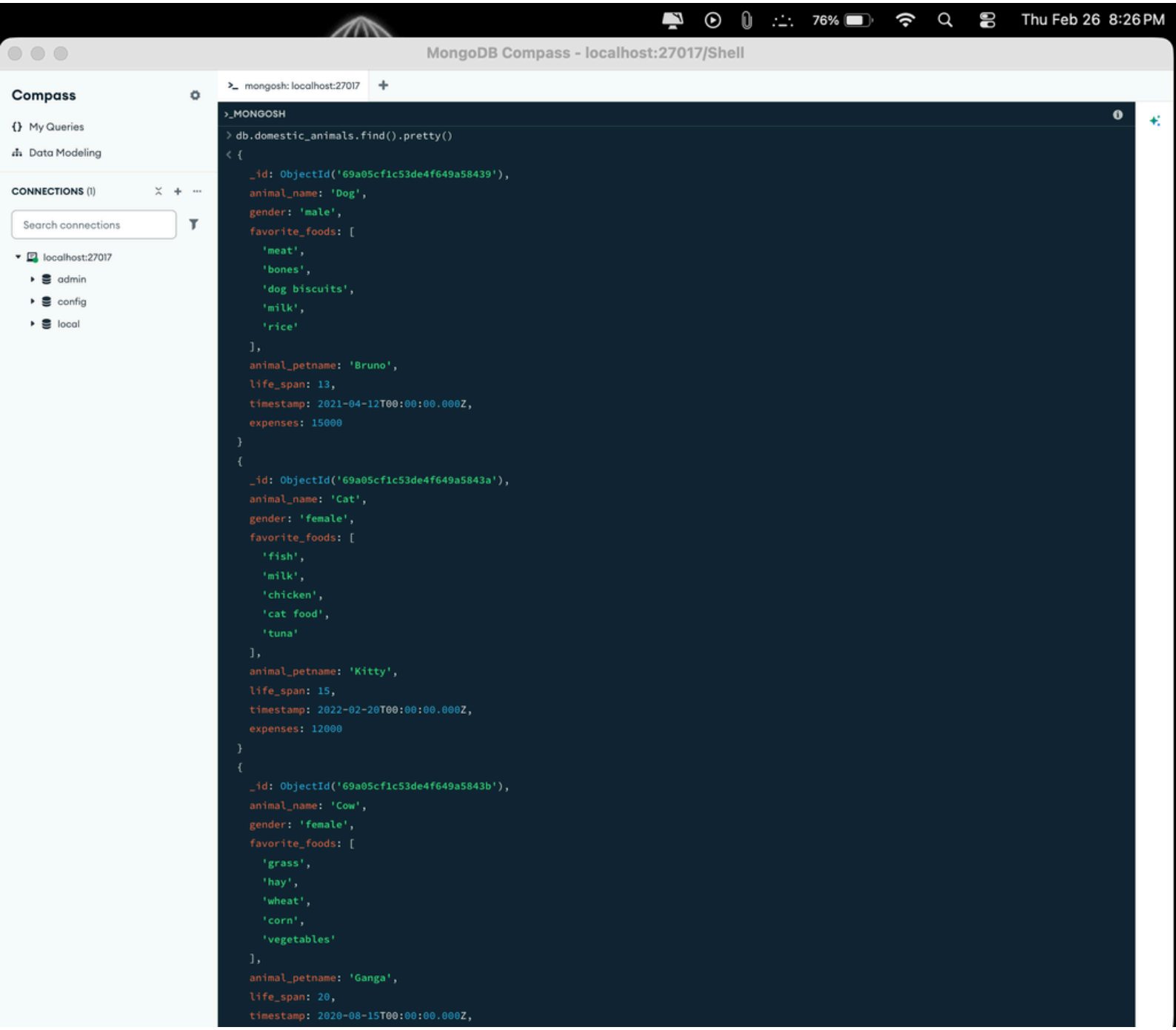


6) Write a MongoDB query to display all documents available in wild_animals and domastic_animals

→ Documents from wild animals :

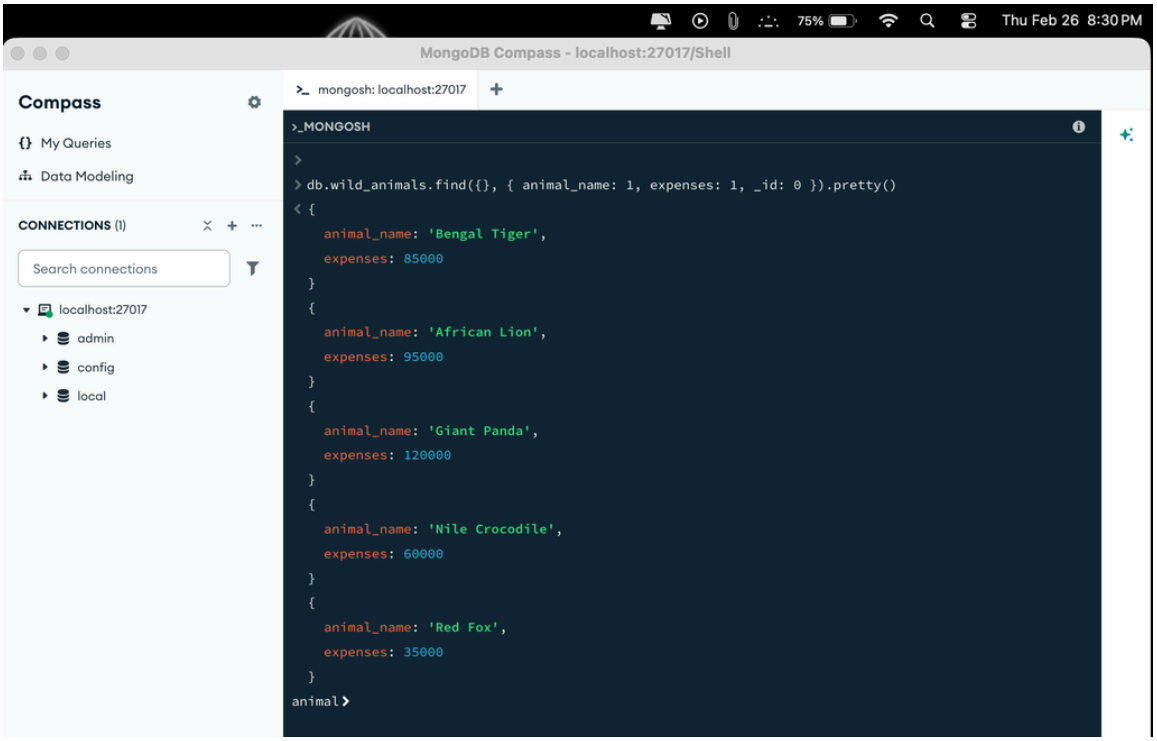


→ Documents from domestic_animals :

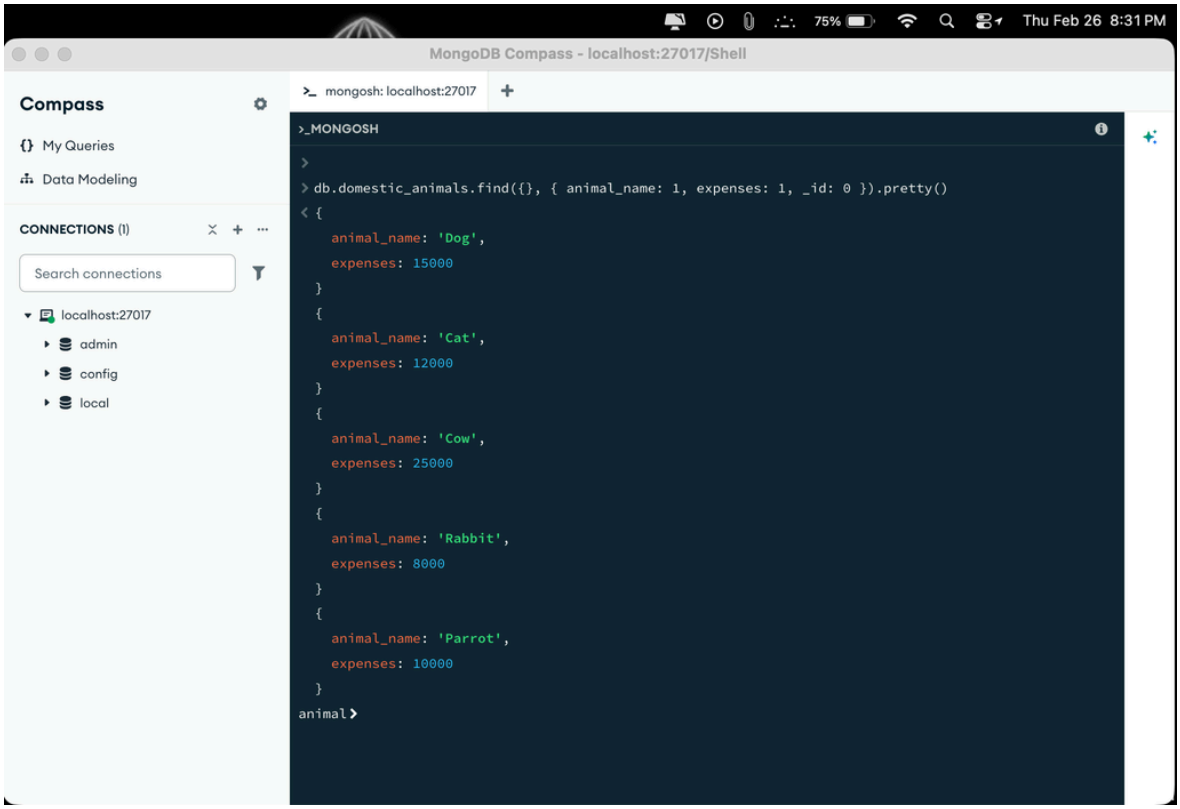


7) Write a MongoDB query to display only animal name and expenses in all the collection of the database

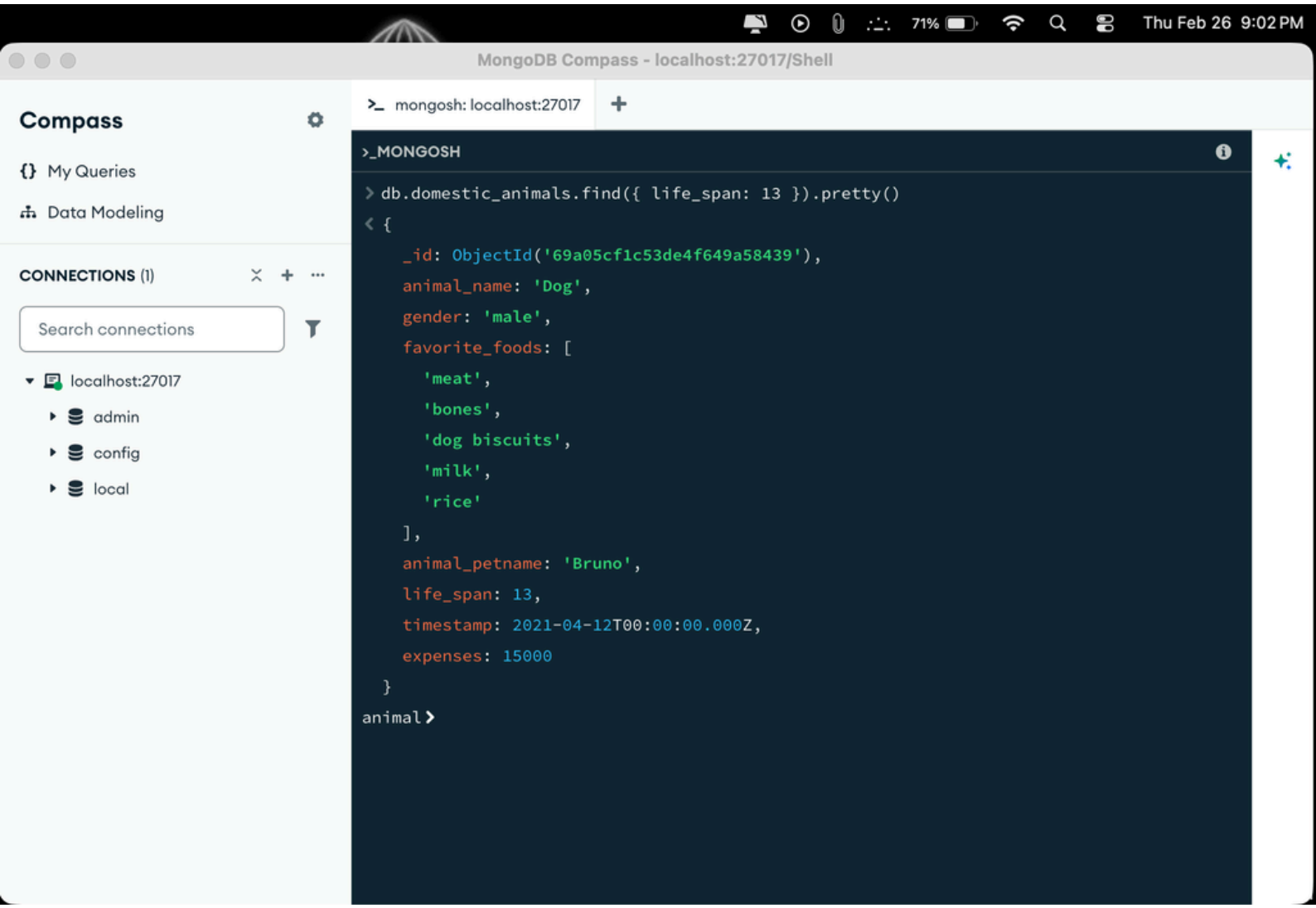
→ From wild animals:



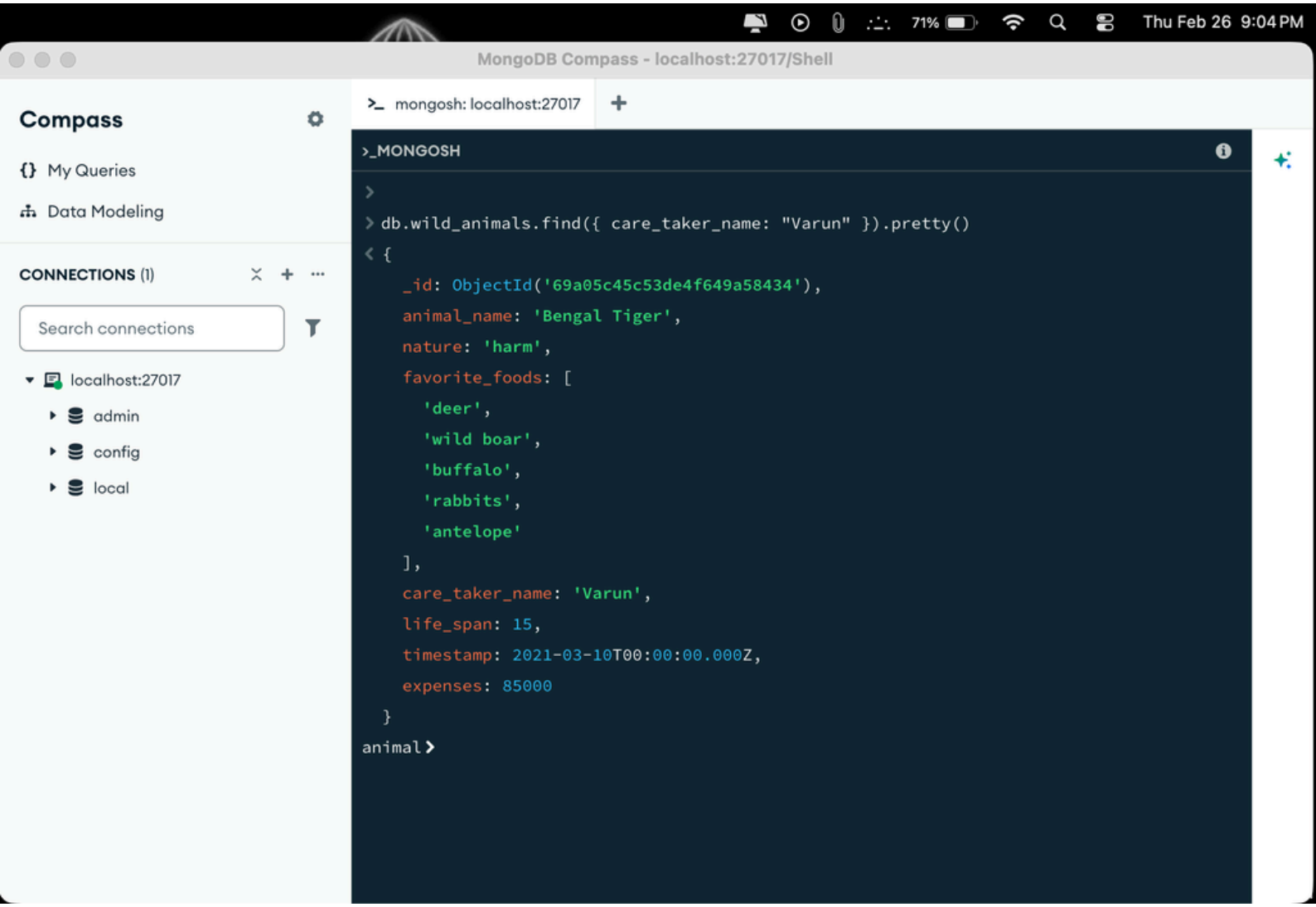
→ From domestic animals:



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

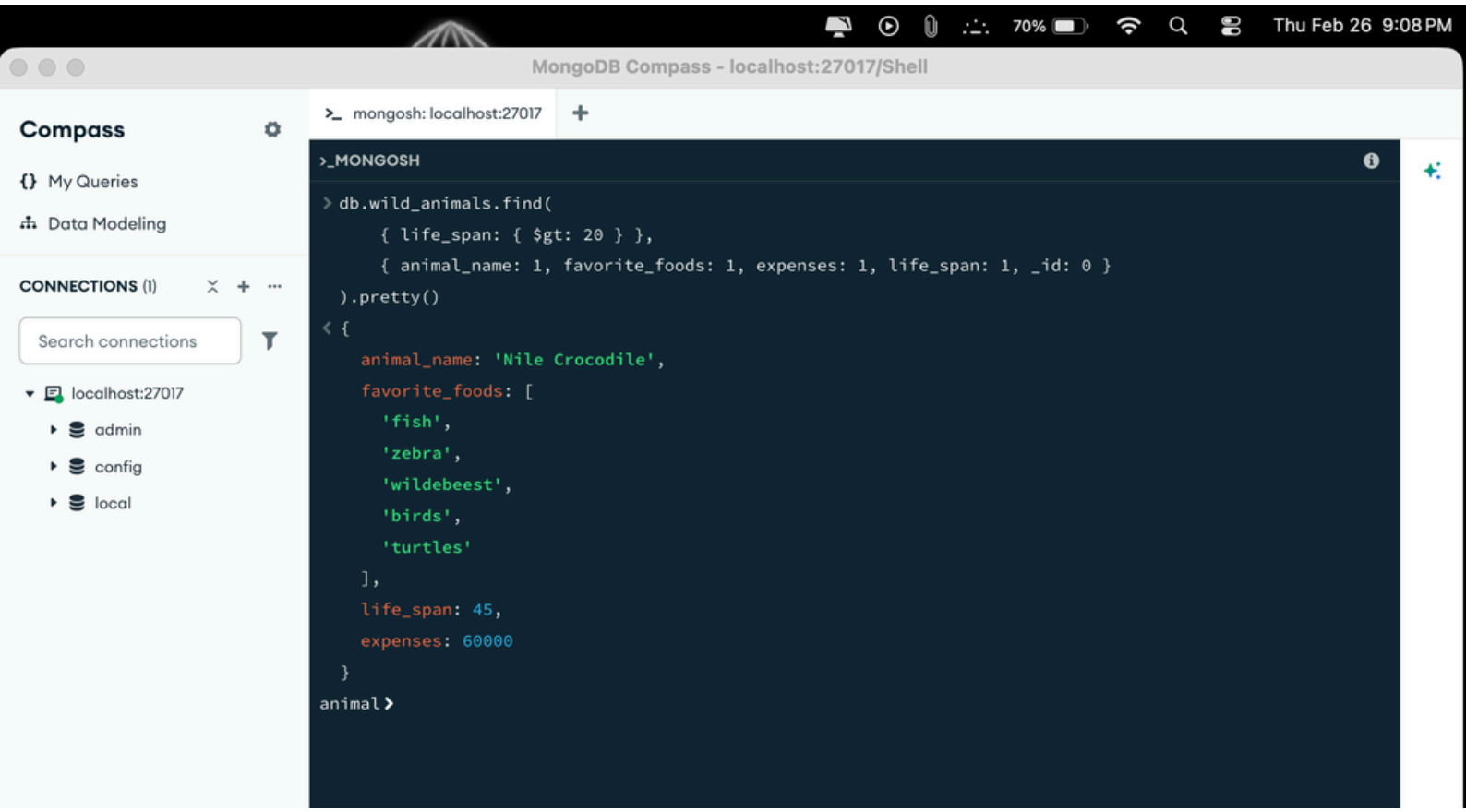


9) Write a MongoDB query to display wild_animals available under a particular care_taker



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

→ From Wild Animals :



→ From Domestic Animals: