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CUS 725 - Advanced Database Systems

Week 9 - Homework 8

MongoDB in Python

1. Retrieve pokemon by name (given)

```
PS C:\Users\peter\Documents\Programming\Spring2021\CUS 725 -  
PS C:\Users\peter\Documents\Programming\Spring2021\CUS 725 -  
/Documents/Programming/Spring2021/CUS 725 - Advanced Databas  
*****  
Retrieving the record for Tentacruel  
query is {'name': 'Tentacruel'}  
-----  
Our little friend is Tentacruel whose type is water  
Statistics  
Attack: 70 Defense: 65  
hydro pump  
constrict  
acid  
bubblebeam
```

a.

2. Retrieve pokemon by type

```
*****  
Retrieving the Pokemons whose type is electric  
query is {'type': 'electric'}  
-----  
Our little friend is Raichu whose type is electric  
Statistics  
Attack: 90 Defense: 55  
thundershock  
thunderbolt  
-----  
Our little friend is Magnemite whose type is electric  
Statistics  
Attack: 35 Defense: 70  
tackle  
thundershock  
spark  
-----  
Our little friend is Magnetron whose type is electric  
Statistics  
Attack: 60 Defense: 95  
tackle  
thundershock  
spark  
zap cannon  
-----  
Our little friend is Voltorb whose type is electric  
Statistics  
Attack: 30 Defense: 50  
tackle  
spark  
-----  
Our little friend is Electrode whose type is electric  
Statistics
```

a.

3. Retrieve by move and type

```
*****
Retrieving the Pokemons who have the bubble move and the water type
query is {'moves': 'bubble', 'type': 'water'}
-----
Our little friend is Squirtle whose type is water
Statistics
Attack: 48 Defense: 65
tackle
bubble
water gun
-----
Our little friend is Wartortle whose type is water
Statistics
Attack: 63 Defense: 80
tackle
bubble
water gun
bite
-----
Our little friend is Blastoise whose type is water
Statistics
Attack: 83 Defense: 100
hydro pump
bubble
water gun
bite
-----
Our little friend is Poliwag whose type is water
Statistics
Attack: 50 Defense: 40
bubble
```

a.

4. Retrieve by min defense and attack

```
*****
Retrieving Pokemons whose defense is greater than 75 and attack greater than 80
query is {'defense': {'$gt': 75}, 'attack': {'$gt': 80}}
-----
Our little friend is Venusaur whose type is grass
Statistics
Attack: 82 Defense: 83
tackle
vine whip
razor leaf
-----
Our little friend is Charizard whose type is fire
Statistics
Attack: 84 Defense: 78
flamethrower
wing attack
slash
metal claw
-----
Our little friend is Blastoise whose type is water
Statistics
Attack: 83 Defense: 100
hydro pump
bubble
water gun
bite
-----
Our little friend is Sandslash whose type is ground
Statistics
Attack: 100 Defense: 110
scratch
poison sting
slash
swift
-----
Our little friend is Nidoqueen whose type is poison
Statistics
Attack: 82 Defense: 87
```

a.