Assignment No.:10

Consider each document in the zip collection has the following form:

{

"\_id": "10280",

"city": "NEW YORK",

"state": "NY",

"pop": 5574,

}

Return the city wise population of the cities in the NY state.

**C:\Program Files\MongoDB\Server\6.0\bin>mongoimport --db bigdata --collection zip --file C:\Users\dell\Downloads\Mongo\zips.json**

2022-11-01T19:39:56.153+0530 connected to: mongodb://localhost/

2022-11-01T19:39:56.950+0530 29353 document(s) imported successfully. 0 document(s) failed to import.

**C:\Program Files\MongoDB\Server\6.0\bin>mongosh**

Current Mongosh Log ID: 636128bbee50354c95b46725

Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.6.0

Using MongoDB: 6.0.2

Using Mongosh: 1.6.0

**test> show dbs**

admin 40.00 KiB

bigdata 8.00 KiB

config 108.00 KiB

local 40.00 KiB

**test> use bigdata;**

switched to db bigdata

**bigdata> show tables;**

zip

**bigdata> db.zip.mapReduce(**

**... function() {emit(this.city,this.pop);},**

**... function(key,value){return Array.sum(value)},**

**... {**

**... query:{state:"NY"},**

**... out:"city\_pop\_totals"**

**... }**

**... );**

{ result: 'city\_pop\_totals', ok: 1 }

**bigdata> db.city\_pop\_totals.find();**

[

{ \_id: 'GLEN HEAD', value: 13565 },

{ \_id: 'SUNY STONY BROOK', value: 5504 },

{ \_id: 'DE LANCEY', value: 785 },

{ \_id: 'PURCHASE', value: 4453 },

{ \_id: 'CINCINNATUS', value: 2416 },

{ \_id: 'JORDAN', value: 4766 },

{ \_id: 'DEGRASSE', value: 717 },

{ \_id: 'FULTONVILLE', value: 2356 },

{ \_id: 'MOHONK LAKE', value: 16394 },

{ \_id: 'RICHFIELD SPRING', value: 3825 },

{ \_id: 'PIERCEFIELD', value: 112 },

{ \_id: 'MACEDON', value: 8486 },

{ \_id: 'BAYPORT', value: 7616 },

{ \_id: 'WOODSIDE', value: 75894 },

{ \_id: 'PRATTSBURG', value: 2534 },

{ \_id: 'CORNWALL', value: 8120 },

{ \_id: 'PISECO', value: 223 },

{ \_id: 'WEST RUSH', value: 2481 },

{ \_id: 'SILVER BAY', value: 7 },

{ \_id: 'GERMANTOWN', value: 4061 }

]