1) You're creating a database to contain information about students in a class (name and ID), and class projects done in pairs (two students and a project title). Should you use the relational model or MongoDB? Please justify your answer

Relational Database beave it is a simple data model out to be more appopriate.

2) You're creating a database to contain information about students in a class (name and ID), and class projects. Projects may include any combination of students; they have a title and optional additional information such as materials, approvals, and milestones. Should you use the relational model or MongoDB? Please justify your answer

MongoDB because we need to use the fexible schema

3) You're creating a database to contain a set of sensor measurements from a two-dimensional grid. Each measurement is a time-sequence of readings, and each reading contains ten labeled values. Should you use the relational model or MongoDB? Please justify your answer

Mongo DB because it would be ensien to collect by the mongo DB on a simple deuter.

- 4) Choose one of the following applications
 - a. IoT
 - b. E-commerce
 - c. Gaming
 - d. Finance

Propose an appropriate Relational Model or MongoDB database schema

a 10T Mongolb

name": String

Bensor": d

smoke: int

"water": int,

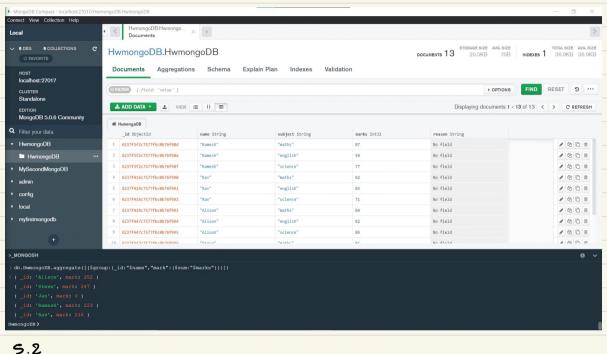
"Output": V

"light : Int

smoke: (n)

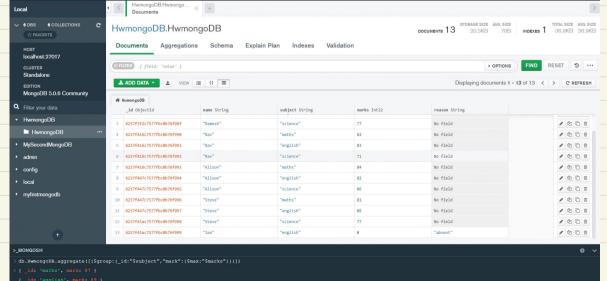
"water": int, y

5.1

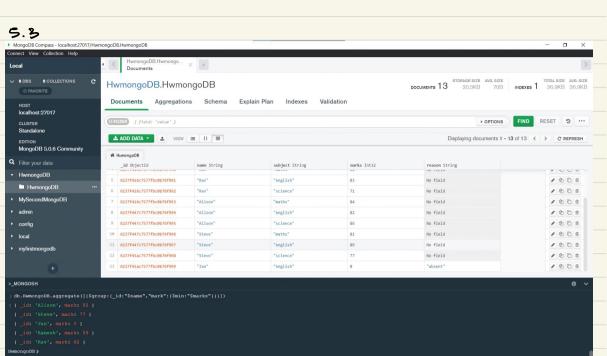


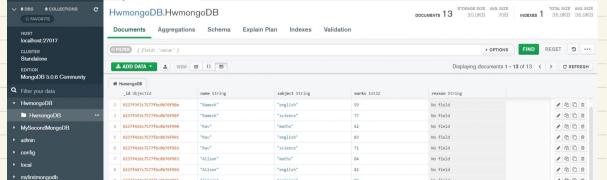
MongoDB Compass - localhost:27017/HwmongoDB.HwmongoDB Connect View Collection Help

mongoDB >



0





5.4

Local

Connect View Collection Help

MongoDB Compass - localhost:27017/HwmongoDB.HwmongoDB

HwmongoDB.Hwmongo... × +

Documents

6237f447c7577fhc8h76f995

6237f447c7577fbc0b76f997

"Steve"

"Steve

"Steve

10 6237f447c7577fbc0b76f996

12 6237f45ac7577fbc8b76f998

13 6237f45ac7577fbc0b76f999 "english" 1008 "absent db.HwmongoDB.aggregate([{\$group:{_id:"Ssubject", average: {\$avg:"\$marks"}}}, {\$sort:{average:-1}}, {\$limit:2}])

81

89

77

"science"

"english"

"science

No field

No field

No field

No field

/ 0 D B

1200

1000

/ 0 D 8