Final Exam

Final: Question 2

Problem:

Consider the following collection:

```
db.collection.find()
{
  "a": [1, 34, 13]
}
```

COPY

The following pipelines are executed on top of this collection, using a mixed set of different expression accross the different stages:

- **Pipeline 1**

```
db.collection.aggregate([
  {"$match": { "a" : {"$sum": 1}  }},
  {"$project": { "_id" : {"$addToSet": "$a"}  }},
  {"$group": { "_id" : "", "max_a": {"$max": "$_id"}  }}
])
```

COPY

- **Pipeline 2**

```
db.collection.aggregate([
    {"$project": { "a_divided" : {"$divide": ["$a", 1]}  }}
])
```

COPY

- **Pipeline 3**

```
db.collection.aggregate([
    {"$project": {"a": {"$max": "$a"}}},
    {"$group": {"_id": "$$ROOT._id", "all_as": {"$sum": "$a"}}}
])
```

Given these pipelines, which of the following statements are correct?

Attempts Remaining: Correct Answer ✅ ⚪ ⚪

Check all answers that apply:

- ☑ **Pipeline 3** is correct and will execute with no error

- ☑ **Pipeline 2** fails because the `$divide` operator only supports numeric types

- ☑ **Pipeline 1** is incorrect because you cannot use an accumulator expression in a `$match` stage.

- ☐ **Pipeline 2** is incorrect since `$divide` cannot operate over field expressions

- ☐ **Pipeline 1** will fail because `$max` can not operator on `_id` field

See detailed answer

Proceed to next section

Assignment is Due

13d:05hr:21m
Dec 17, 17:00 UTC

Your Grade

PASS/FAIL
Submitted