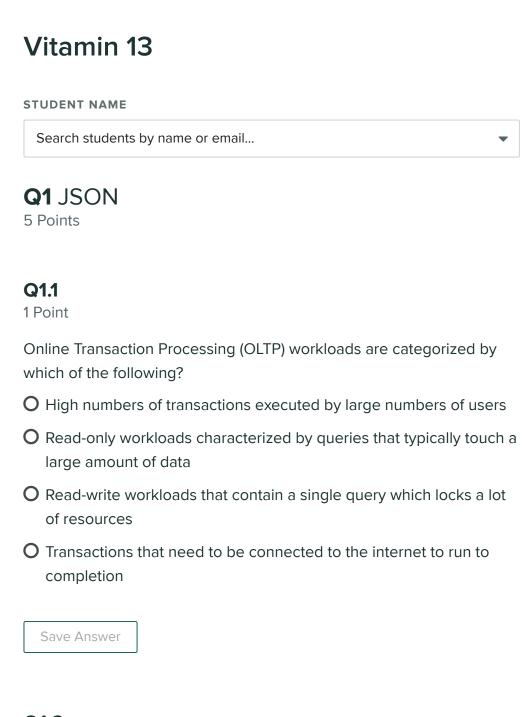
0/10 Questions Answered



Q1.2

1 Point

The CAP theorem proves that it is impossible for a distributed system to simultaneously provide more than two of the three (CAP) properties. What are the CAP properties?

Consistency	
Coherence	
Atomicity	
Availability	
Partition Tolerance	
Perforce Compliance	
Save Answer	
Q1.3 1 Point	
Both XML and JSON are exa	mples of which of the following?
☐ Binary data formats	
☐ Tabular data formats	
Nested or hierarchical of	data formats
Semi-structured data	
Unstructured data	
None of the Above	

Q1.4

1 Point

Which of the following are true regarding JSON? Requires predefined schema JSON arrays are not ordered Self-describing Can be used as a data type in a RDBMS Can always be mapped to a relation None of the Above Save Answer Q1.5 1 Point Suppose we have the following relation called student: school name **UC** Berkeley Joe **UCLA** Bob **NULL** Emma Based on the mapping from lecture, which of the following is the JSON equivalent?

A:

```
{"name":["Joe", "Bob", "Emma"]:, "school":["UC Berkeley", "UCLA"]}
```

B:

```
{"student":
[{"name":"Joe":, "school":"UC Berkeley"},
{"name":"Bob":, "school":"UCLA"}
{"name":"Emma"}]
}
```

C:

```
["student":
[{"name":"Joe":, "school":"UC Berkeley"},
{"name":"Bob":, "school":"UCLA"}
{"name":"Emma"}]
]
```

D:

```
{"student":
{"name":["Joe", "Bob", "Emma"]:, "school":["UC Berkeley", "UCLA"]}
}
```

E:

```
{"student":
{"name":["Joe", "Bob", "Emma"]:, "school":["UC Berkeley", "UCLA", NU.
}
```

- OA
- **O** B
- **O** C
- O_D
- O_E
- O None of the Above

Save Answer

Q2 MQL Queries

5 Points

Suppose we have two MongoDB collections: teams and standings The first row of each collection is shown below:

teams

```
{
    "_id" : ObjectId("5fb6f46fc0d3b5f3c64b4e12"),
    "teamId" : 1,
    "city" : "San Francisco",
    "name" : "Giants",
    "players" : ["Buster Posey", "Brandon Belt", "Brandon Crawfo"]
}
```

standings

```
{
    "_id" : ObjectId("6fc6f57gc0d3j5f3c64b5f23"),
    "teamId" : 1,
    "league" : "National",
    "division" : "West",
    "standings": {"wins": 4, "losses": 3}
}
```

Q2.1

1 Point

Which of the following queries would find the teams with more than 3 wins?

```
O db.standings.find({"standings.wins" : {$gt:3}})
```

```
O db.standings.find({"standings" : {"wins" : $gt:3}})
```

```
O db.standings.find({"standings" : {"wins" : {$gt:3}}})
```

```
O db.standings.find({"wins" : {"standings" : {$gt:3}}})
```

Save Answer

Q2.2

1 Point

Which of the following queries would find information regarding the team Mike Trout currently plays on?

```
db.teams.find({"players":["Mike Trout"]})

db.teams.find({"players:"Mike Trout"})

db.teams.find({"players.contains":"Mike Trout"})

db.teams.find({"players":{$elemMatch : "Mike Trout"}})

db.teams.find({"players":{$elemMatch : {$eq:"Mike Trout"}}})

None of the Above
```

Q2.3

1 Point

Which of the following queries would find the total number of wins in the each league?

```
A:

db.standings.aggregate([{$group: {_id:"$league", totalWins:{$sum: "sta}}

B:

db.standings.aggregate([{$group: {_id:"$league", totalWins:{$sum: "$st}}

C:
```

```
D:
db.standings.aggregate([{$group: { id:"$league", {$sum: "$standings.wi}
```

db.standings.aggregate([{\$group: {_id:"\$league", totalWins:{\$sum:}

{"\$standings" : "wins"}}}])`

O A	
Ов	
O C	
O D	
Save Answer	
Q2.4 1 Point	
Which of the following queries would find a list of all players for the team with teamld 5? If there are 5 players for the team with teamld 5, then there should be 5 separate rows.	
db.teams.aggregate([{\$find: {teamId : {\$eq:5}}}])	
db.teams.aggregate([{\$match: {teamId : {\$eq:5}}}])	
db.teams.aggregate([{\$match: {teamId : {\$eq:5}}}, {\$unwind: '	'\$pla
db.teams.aggregate([{\$unwind:"\$players"}, {\$match: {teamId :	{\$eq
db.teams.aggregate([{\$find: {teamId : {\$eq:5}}}, {\$unwind: "\$	play
None of the Above	
Save Answer	
Q2.5 1 Point	
Which of the following queries find the total number of wins for teams located in San Francisco?	
A:	

```
db.teams.aggregate([{$match: {location : {$eq:"San Francisco"}}},
  {\$lookup : {from: "standings", localField: "teamId",
  foreignField:"teamId", as: "results"}},
  {\$group: {\_id: "teamId", totalWins:{\$sum: {\$first:
  "$results.standings.wins"}}}]]
B:
  db.teams.aggregate([{$match: {location : {$eq:"San Francisco"}}},
  {$lookup : {from: "standings", localField: "teamId",
  foreignField:"teamId", as: "results"}},
  {\$group: { id: null, totalWins:{\$sum: {\$first:
  "$results.standings.wins"}}}]]
C:
  db.teams.aggregate([{$match: {location : {$eq:"San Francisco"}}}},
  {\$lookup : {from: "standings", localField: "teamId",
  foreignField:"teamId", as: "results"}},
  {\$group: {_id: null, totalWins:{\$sum: {\$first:
  "$results.wins"}}}}])
D:
  db.teams.aggregate([{$group: { id: null, totalWins:{$sum: {$first:
  "$results.wins"}}}]]
OA
OB
OC
O D
  Save Answer
  Save All Answers
                                         Submit & View Submission >
```