Respuestas práctica

Pablo Hidalgo 21/2/2019

Pregunta 1

```
db.usage.find({track: {$exists: 1}}).limit(3).pretty()
```

Pregunta 2

```
db.usage.aggregate(
   {$match: {"track": {$exists: 1}}},
   {$project: {tracks: {$size: "$track.features"}}})
```

Pregunta 3

```
db.usage.aggregate(
   {$match: {"track": {$exists: 1}}},
   {$replaceRoot: {newRoot: "$track"}},
   {$unwind: "$features"},
   {$project: {type: "$features.geometry.type"}},
   {$group: {_id: "$type", num: {$sum: 1}}})
```

Pregunta 4

```
db.usage.aggregate(
    {$match: {idunplug_station: 14}},
    {$group:
        {_id: "$idunplug_base",
             tiempo_max: {$max: "$travel_time"},
             tiempo_min: {$min: "$travel_time"},
             tiempo_avg: {$avg: "$travel_time"}
        }
    }
}
```

Pregunta 5

```
},
  {$sort: {_id: 1}}
Pregunta 6
db.stations.aggregate(
  {$limit: 1},
  {\unwind: "\stations"},
  {\$match: {\"stations.address\": {\$regex: /Calle Segovia/}}}
).pretty()
Pregunta 7
db.stations.aggregate(
  {$limit: 1},
  {project: {_id: {$dateFromString: {dateString: "$_id"}}}}
Pregunta 8
db.stations.aggregate(
  {\$addFields: {
      day: {$dayOfMonth: {$dateFromString: {dateString: "$_id"}}},
      month: {$month: {$dateFromString: {dateString: "$_id"}}},
  {$match: {day: 8, month: 12}},
  {\unwind: "\stations"},
  {\group: {\_id: "\stations.free_bases", stations: {\spush: "\stations.id"}}},
  {$sort: {_id: -1}},
  {$limit: 1}
Pregunta 9
db.usage.aggregate(
  {$group: {
    _id: {idunplug_base: "$idunplug_base", idplug_base: "$idplug_base"},
    avg_travel_time: {$avg: "$travel_time"}
 }
```

Pregunta 10

```
db.stations.aggregate(
```