

NoSQL Scripts

Query 1: Bulk Booking

```
db.booking.find({
  "seats": {
    $gt: 50
  }
})
```

Mongo Playground run share docs		
Configuration	Query	Result
<pre>1* db={ 2* "booking": [3* { 4* "idBooking": 8, 5* "iduser": 1, 6* "seats": 1, 7* "timestamp": "2022-06-27 20:28:23", 8* "status": "InProgress", 9* "showid": 552571 10* }, 11* { 12* "idBooking": 14, 13* "iduser": 79495730, 14* "seats": 75, 15* "timestamp": "2022-03-10 19:27:58", 16* "status": "Booked", 17* "showid": 59153 18* }, 19* { 20* "idBooking": 29, 21* "iduser": 977698, 22* "seats": 18, 23* "timestamp": "2022-11-02 06:06:46", 24* "status": "InProgress", 25* "showid": 198331751 26* }, 27* { 28* "idBooking": 30, 29* "iduser": 274729, 30* "seats": 6,</pre>	<pre>1* db.booking.find({ 2* "seats": { 3* \$gt: 50 4* } 5* })</pre>	<pre>"_id": ObjectId("5a934e000102030405000001"), "idBooking": 14, "iduser": 7.949573e+07, "seats": 75, "showid": 59153, "status": "Booked", "timestamp": "2022-03-10 19:27:58" }, { "_id": ObjectId("5a934e000102030405000007"), "idBooking": 44, "iduser": 9.929762e+06, "seats": 69, "showid": 24376, "status": "Booked", "timestamp": "2022-02-04 20:11:20" }, { "_id": ObjectId("5a934e00010203040500000c"), "idBooking": 52, "iduser": 1.64723193e+08, "seats": 72, "showid": 123113, "status": "Failed", "timestamp": "2022-06-26 08:10:54" }, { "_id": ObjectId("5a934e00010203040500000d"), "idBooking": 53, "iduser": 12741,</pre>

Query 2: Usage of Credit and Debit Card

```
db.theatre.aggregate([
{
  $project: {
    _id: "$name",
    MaxScreens: {
      $max: "$numberofscreens"
    }
  }
},
{
  $sort: {
    "MaxScreens": -1
  }
},
{
  $limit: 1
}
])
```

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Configuration	Query	Result
<pre>309 "amount": 15, 310 "timestamp": "2012-12-04 06:40:28", 311 "paymentmethod": "debit card", 312 "transactionid": 484, 313 "bookingid": 162 314 }, 315 { 316 "idpayment": 40, 317 "amount": 13, 318 "timestamp": "1998-05-13 23:53:47", 319 "paymentmethod": "credit card", 320 "transactionid": 410, 321 "bookingid": 218 322 }, 323 { 324 "idpayment": 41, 325 "amount": 15, 326 "timestamp": "1974-10-03 04:23:09", 327 "paymentmethod": "credit card", 328 "transactionid": 433, 329 "bookingid": 113 330 }, 331 { 332 "idpayment": 42, 333 "amount": 12, 334 "timestamp": "2011-02-24 02:41:58", 335 "paymentmethod": "debit card", 336 "transactionid": 570, 337 "bookingid": 70 338 },</pre>	<pre>1 db.payment.aggregate([2 { 3 \$group: { 4 _id: "\$paymentmethod", 5 Usage: { 6 \$count: {} 7 } 8 } 9 } 10])</pre>	<pre>[{ "Usage": 41, "_id": "credit card" }, { "Usage": 59, "_id": "debit card" }]</pre>

Query 3: Average Rating of films in each language

```
db.movie.aggregate([
  {
    $group: {
      _id: "$language",
      AvgRating: {
        $avg: "$Rating"
      }
    }
  },
  {
    $sort: {
      "AvgRating": -1
    }
  },
])
```

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Configuration	Query	Result
<pre>1+ lb={ 2+ "movie": [3+ { 4+ "idmovie": 0, 5+ "title": "alice-led-the-way-and-the-ma 6+ "language": "hindi", 7+ "genre": "Drama", 8+ "duration": 121, 9+ "Certificate": "U/A", 10+ "Rating": 8 11+ }, 12+ { 13+ "idmovie": 1, 14+ "title": "mock-turtle-would-be-worth-t 15+ "language": "hindi", 16+ "genre": "Drama", 17+ "duration": 131, 18+ "Certificate": "U/A", 19+ "Rating": 5 20+ }, 21+ { 22+ "idmovie": 2, 23+ "title": "on-which-seven-looked-up-and 24+ "language": "hindi", 25+ "genre": "Fantasy", 26+ "duration": 116, 27+ "Certificate": "A", 28+ "Rating": 7</pre>	<pre>1+ db.movie.aggregate([2+ { 3+ \$group: { 4+ _id: "\$language", 5+ AvgRating: { 6+ \$avg: "\$Rating" 7+ } 8+ }, 9+ }, 10+ { 11+ \$sort: { 12+ "AvgRating": -1 13+ } 14+ }, 15+], 16+])</pre>	<pre>[{ "AvgRating": 8, "_id": "telugu" }, { "AvgRating": 7.358974358974359, "_id": "hindi" }, { "AvgRating": 7.138888888888889, "_id": "english" }]</pre>

Query 4: Theatre with most number of screens

```
db.theatre.aggregate([
{
  $project: {
    _id: "$name",
    MaxScreens: {
      $max: "$numberofscreens"
    }
  }
},
{
  $sort: {
    "MaxScreens": -1
  }
},
{
  $limit: 1
}
])
```

The screenshot shows the MongoDB Playground interface with three main panels: Configuration, Query, and Result.

- Configuration:** The format is set to 'bson'.
- Query:** The query is:

```
1 db.theatre.aggregate([
2   {
3     $project: {
4       _id: "$name",
5       MaxScreens: {
6         $max: "$numberofscreens"
7       }
8     }
9   },
10  {
11    $sort: {
12      "MaxScreens": -1
13    }
14  },
15  {
16    $limit: 1
17  }
18 ])
```
- Result:** The result is:

```
[
  {
    "MaxScreens": 9,
    "_id": "Bergstrom-Mertz"
  }
]
```

Query 5: Average duration of each Genre

```
db.movie.aggregate([
  {
    $group: {
      _id: "$genre",
      AvgDuration: {
        $avg: "$duration"
      }
    }
  },
  {
    $sort: {
      "AvgDuration": -1
    }
  },
])
```

Configuration	Query	Result
<pre>1 db=[2 "movie": [3 { 4 "idmovie": 0, 5 "title": "alice-led-the-way-and-the-m 6 "language": "hindi", 7 "genre": "Drama", 8 "duration": 121, 9 "Certificate": "U/A", 10 "Rating": 8 11 }, 12 { 13 "idmovie": 1, 14 "title": "mock-turtle-would-be-worth- 15 "language": "hindi", 16 "genre": "Drama", 17 "duration": 131, 18 "Certificate": "U/A", 19 "Rating": 5 20 }, 21 { 22 "idmovie": 2, 23 "title": "on-which-seven-looked-up-an 24 "language": "hindi", 25 "genre": "Fantasy", 26 "duration": 116, 27 "Certificate": "A", 28 "Rating": 7 29 }, 30] 31]</pre>	<pre>1 db.movie.aggregate([2 { 3 \$group: { 4 _id: "\$genre", 5 AvgDuration: { 6 \$avg: "\$duration" 7 } 8 }, 9 }, 10 { 11 \$sort: { 12 "AvgDuration": -1 13 } 14 }, 15]</pre>	<pre>[{ "AvgDuration": 123.2, "_id": "Action" }, { "AvgDuration": 122.2, "_id": "Fantasy" }, { "AvgDuration": 121.81818181818181, "_id": "Horror" }, { "AvgDuration": 120.1304347826087, "_id": "Drama" }, { "AvgDuration": 118.4, "_id": "Comedy" }, { "AvgDuration": 118.2, "_id": "Romance" }]</pre>