

Peer-graded Assignment: Project Submission and Peer Review

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Working with NoSql Databases

Submitted on October 17, 2024

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PROMPT

Task 1: Import movies.json into MongoDB server into a database named entertainment and a collection named movies and submit a screenshot that shows successfully importing 100 movies into MongoDB. Name the screenshot 01-mongo-import and submit the screenshot. (1 pt.)

01-mongo-import

```
theia@theia-decker:~$ shreyans2812 /home/project$ mongoimport -u root -p slkt5oi
5L5vkqu8d4n2MGC --authenticationDatabase admin -d entertainment -c movies
--host mongo.movies.json
2024-10-17T15:25:53.737+0400 connected to: mongodb://mongo/
2024-10-17T15:25:53.737+0400 100 document(s) imported successfully. 0 doc
ument(s) failed to import.
theia@theia-decker:~$ shreyans2812 /home/project$
```

RUBRIC

Did the learner upload a screenshot of successfully importing 100 movies into MongoDB? (1 pt.)

Review the response by the learner and grade this question based on the following criteria.

Example submission



TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

1 point

Yes. The correct output was displayed.



0 points

No. The screenshot showed errors or did not show the intended output.



PROMPT

Task 2: Write a MongoDB query to find the year in which the greatest number of movies were released and submit a screenshot of the complete query and its count. Name the screenshot 02-most-movies-year and submit the screenshot. (1 pt.)

02-most-movies-year

RUBRIC

Did the learner upload a screenshot of a completed query showing 2016 and count as 73 (field names don't matter)? (1 pt.)

Review the response by the learner and grade this question based on the following criteria.

Example submission



```

training> db.movies.aggregate([
...   {
...     "$group": {
...       "_id": "year",
...       "moviecount": { "$sum": 1 }
...     }
...   },
...   {
...     "$sort": { "moviecount": -1 }
...   },
...   {
...     "$limit": 1
...   }
... ])
[ { _id: 2016, moviecount:73 } ]

```

```

entertainment> db.movies.aggregate([
...   {
...     "$group": {
...       "_id": "year",
...       "moviecount": { "$sum": 1 }
...     }
...   },
...   {
...     $sort: { "moviecount": -1 }
...   },
...   {
...     $limit: 1
...   }
... ])
[ { _id: 2016, moviecount: 73 } ]
entertainment>

```

TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

1 point

Yes. The correct output was displayed.

0 points

No. The screenshot showed errors or did not show the intended output.



PROMPT

Task 3: Write a MongoDB query to find the count of movies released after the year 1999 and submit a screenshot of the query on the year field with its value and output. Name the screenshot 03-movies-count-1999 and submit the screenshot. (1 pt.)

03-movies-count-1999

```

training> db.movies.aggregate([
...   {
...     $match: { year: { $gt: 1999 } }
...   },
...   {
...     "$group": {
...       "_id": null,
...       "moviecount": { "$sum": 1 }
...     }
...   },
...   {
...     "$sort": { "moviecount": -1 }
...   },
...   {
...     $limit: 1
...   }
... ])
{ "_id": null, "moviecount": 99 }

```

RUBRIC

Did the learner upload a screenshot of mongo shell displaying query on year field with value 1999 and output as 99? (1 pt.)

Review the response by the learner and grade this question based on the following criteria.



Example submission

```

entertainment> db.movies.countDocuments({ year: { $gt: 1999 } })
99

```

TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

1 point

Yes. The correct output was displayed.

0 points

No. The screenshot showed errors or did not show the intended output.



PROMPT

Task 4: Write a query to find out the average votes for movies released in 2007. Submit a screenshot of the Mongo shell showing the output year and average votes. Name the screenshot 04-average-vote and submit the screenshot. (1 pt.)

04-average-vote

```

training> db.books.aggregate([
...   {
...     $match: { year: 2007 }
...   },
...   {
...     $group: {
...       id: "$year"
...     }
...   }
... ])

```

RUBRIC

Did the learner upload a screenshot of mongo shell showing output as year 2007 and average votes 192.5? (**Note:** field names don't matter.) (1 pt.)

Review the response by the learner and grade this question based on the following criteria.



Example submission

```

entertainment> db.movies.aggregate(
... )

```

```

    ...
    averageVotes: { $avg: "$votes" }
  ...
}
( "_id" : 2007, "averagevote" : 192.5 )

```

```

{
  ...
  {
    $match: { year: 2007 }
  },
  {
    $group:
    [
      ...
      {
        _id: "$year",
        averageVotes: { $avg: "$Votes" }
      }
      ...
    ]
  }
}
[ { _id: 2007, averageVotes: 192.5 } ]

```

TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

1 point

Yes. The correct output was displayed.

0 points

No. The screenshot showed errors or did not show the intended output.

PROMPT

Task 5: Export selected fields from the movies collection query into a file named partial_data.csv and submit a screenshot that displays the contents of the CSV file. Name the screenshot 05-mongo-export and submit the screenshot. (1 pt.)

05-mongo-export

```

partial_data.csv
1 14,Title,2016,unrated,director
2 3,Split,2016,unrated,
3 Prometheus,2012,unrated,
4 17,HackSAF_H_Edge,2016,6,
5 19,The Secret Life of Pets,2016,unrated,
6 16,The Secret Life of Pets,2016,unrated,
7 19,Lion,2016,6,
8 21,Gold,2016,unrated,
9 1,Guardians of the Galaxy,2014,6,
10 20,The Martian,2015,unrated,
11 22,Mercy,2016,unrated,
12 23,Hearts of Love,2016,unrated,
13 25,Independence Day: Resurgence,2016,unrated,
14 29,It Follows,2014,unrated,
15 23,The Danish Girl,2015,6,
16 28,Dead Awake,2016,unrated,
17 30,Assassin's Creed,2016,6,
18 29,Bad Moms,2016,unrated,
19 9,The Legend of Tarzan,2016,unrated,
20 31,Maze Run,2016,unrated,
21 24,Trolls,2016,unrated,
22 32,Top Dog,1978,unrated,
23 33,X-Men: Apocalypse,2016,6,
24 13,Rogue One,2016,unrated,
25 4,Sling,2016,unrated,

```

RUBRIC

Did the learner upload a screenshot of terminal output showing that the Mongo export was completed successfully and includes exported 100 records? (1 pt.)

Review the response by the learner and grade this question based on the following criteria.

Example submission

```

partial_data.csv
1 14,Title,2016,unrated,director
2 3,Split,2016,unrated,
3 Prometheus,2012,unrated,
4 17,HackSAF_H_Edge,2016,6,
5 19,The Secret Life of Pets,2016,unrated,
6 16,The Secret Life of Pets,2016,unrated,
7 19,Lion,2016,6,
8 21,Gold,2016,unrated,
9 1,Guardians of the Galaxy,2014,6,
10 20,The Martian,2015,unrated,
11 22,Mercy,2016,unrated,
12 23,Hearts of Love,2016,unrated,
13 25,Independence Day: Resurgence,2016,unrated,
14 29,It Follows,2014,unrated,
15 23,The Danish Girl,2015,6,
16 28,Dead Awake,2016,unrated,
17 30,Assassin's Creed,2016,6,
18 29,Bad Moms,2016,unrated,
19 9,The Legend of Tarzan,2016,unrated,
20 31,Maze Run,2016,unrated,
21 24,Trolls,2016,unrated,
22 32,Top Dog,1978,unrated,
23 33,X-Men: Apocalypse,2016,6,
24 13,Rogue One,2016,unrated,
25 4,Sling,2016,unrated,

```

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1 point

Yes. The correct output was displayed.

0 points

No. The screenshot showed errors or did not show the intended output.

PROMPT

Task 6: Create a keyspace named “entertainment.” Submit a screenshot that displays the listed keyspace in the output of the **describe** command. Name the image 06-describe-keyspaces and submit the screenshot.(1 pt.)

RUBRIC

Did the learner upload a screenshot showing entertainment as a listed keyspace in the output of the **describe** command? (1 pt.)

Review the response by the learner and grade this question based on the following criteria.

Ub-describe-keyspaces

```
root@cqsh:~> cqlsh -u root -p password 123456789012345678902 -e < /dev/null
cassandra
Warning: you built against 4.0.13, but this server is 5.6. All features may not work!
Connected to Test Cluster at 172.21.95.89:65432
[localhost] > describe keyspaces
keyspace_name   keyspace_id
system          1
system_auth     2
system_distributed  3
system_traces   4
system_views    5
system_virtual  6
system_schema   7
system_credential 8
entertainment   9
root@cqsh:~>
```

Example submission

```
cassandra> CREATE KEYSPACE entertainment
... WITH replication = {'class': 'SimpleStrategy', 'replication_factor' : 3};
Warnings:
Your replication factor 3 for keyspace entertainment is higher than the number of nodes 1
cassandra> describe keyspaces
keyspace_name   keyspace_id
system          1
system_auth     2
system_distributed  3
system_traces   4
system_views    5
system_virtual  6
system_schema   7
system_credential 8
entertainment   9
root@cqsh:~>
```

TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

1 point

Yes. The correct output was displayed.

0 points

No. The screenshot showed errors or did not show the intended output.

PROMPT

Task 7: Import partial_data.csv into the Cassandra server and capture a screenshot that displays the imported CSV file in Cassandra. Name the screenshot 07-movies-imported and submit the screenshot. (1 pt.)

07-movies-imported

```
root@cqsh:> use entertainment;
root@cqsh:entertainment> CREATE TABLE movies(
...   id PRIMARY KEY,
...   title text,
...   year text,
...   rating float,
...   director text);
root@cqsh:entertainment> use test;
root@cqsh:entertainment> COPY entertainment.movies(id, title, year, rating, director) FROM 'partial_data.csv' WITH DELIMITER=';', AND HEADER=TRUE;
Using 15 child processes
Starting copy of entertainment.movies with columns [id, title, year, rating, director]
Processed: 100 rows; Rate: 126 rows/s; Avg. rate: 126 rProcessed: 100
rows; Rate: 63 rows/s; Avg. rate: 109 rows/s
100 rows inserted in 0.322 seconds (0 skipped).
root@cqsh:entertainment> []
root@cqsh:entertainment> describe movies
CREATE TABLE entertainment.movies (
  id text PRIMARY KEY,
  director text,
  rating float,
  title text,
  year text
) WITH CLUSTERING ORDER BY (rating DESC)
  AND bloom_filter_fp_chance = 0.01
  AND compaction = { 'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32', 'min_threshold': '4' }
  AND compression = { 'chunk_length_kb': '16', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor' }
  AND memtable = 'default'
  AND crc_check_chance = 1.0
  AND max_index_interval = 0
  AND extensions = {}
  AND gc_grace_seconds = 864000
  AND speculative_retry = true
  AND max_index_interval = 2048
  AND memtable_flush_period_in_ms = 0
  AND read_repair_chance = 0.0
  AND read_repair = 'BLOCKING'
  AND speculative_retry = '99p';
root@cqsh:entertainment:~>
```

RUBRIC

Did the learner submit a screenshot that displays the imported CSV file in Cassandra? (1 pt.)

Review the response by the learner and grade this question based on the following criteria.

Example submission

```
cassandra> SELECT COUNT(*) FROM movies;
count
-----
100
(1 rows)
Warnings:
Aggregation query used without partition key
root@cqsh:~>
```

TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

1 point

Yes. The correct output was displayed.

0 points

No. The screenshot showed no output or did not show the intended output.

PROMPT

Task 8: Write a CQL query to count the number of rows in the movies table and create a screenshot of your CQL query. Name the screenshot 08-movies-count and submit the screenshot. (1 pt.)

08-movies-count

```
root@cqsh:~> SELECT COUNT(*) FROM movies;
count
-----
100
(1 rows)
Warnings:
Aggregation query used without partition key
root@cqsh:~>
```

RUBRIC

Did the learner upload a screenshot of the CQL query that counts that shows 100 as the row count? Note: The field name doesn't matter. (1 pt.)

Review the response by the learner and grade this question based on the following criteria.

Example submission

```
cassandra> SELECT COUNT(*) FROM movies;
count
-----
100
(1 rows)
Warnings:
Aggregation query used without partition key
root@cqsh:~>
```



TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

1 point

Yes. The correct output was displayed.

0 points

No. The screenshot showed no output or did not show the intended output.



PROMPT

Task 9: Create an index for the rating column in the movies table using CQL and create a screenshot. Name the screenshot 09-movies-rating-index and submit the screenshot. (1 pt.)

09-movies-rating-index

```
root@cqlsh:entertainment> CREATE INDEX ON entertainment.movies(rating);
```

RUBRIC

Did the learner upload a screenshot of CQL query that shows CREATE INDEX as the last line in the output of the describe command? (1 pt.)

Review the response by the learner and grade this question based on the following criteria.



Example submission

TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

1 point

Yes. The correct output was displayed.

0 points

No. The screenshot showed no output or did not show the intended output.



PROMPT

Task 10: Write a CQL query to count the number of movies that are rated 'G' and create a screenshot of your CQL query. Name the screenshot 10-g-rated-movies and submit the screenshot. (1 pt.)

10-g-rated-movies

```
root@cqlsh:entertainment> SELECT COUNT(*) FROM movies WHERE rating='G';
count
-----
32
(1 rows)

Warnings :
Aggregation query used without partition key
root@cqlsh:entertainment>
```

RUBRIC

Did the learner upload a screenshot of CQL query showing 32 as count (field name doesn't matter) as the outcome of the query on rating field value of 'G'? (1 pt.)

Review the response by the learner and grade this question based on the following criteria.



Example submission

TIP: If the screenshot appears small and is hard to read try zooming in by pressing "Ctrl" and "+" keys together (Mac: "Command" and "+"), or Right-click on the image and "View Image" (Firefox) or "Open Image in new Tab" (Chrome).

1 point

Yes. The correct output was displayed.

0 points

No. The screenshot showed errors or did not show the intended output.



[Start new attempt](#)

Comments

Comments left for the learner are visible only to that learner and the person who left the comment.

SS

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