Name: Dhruv Bheda SapID:60004200102

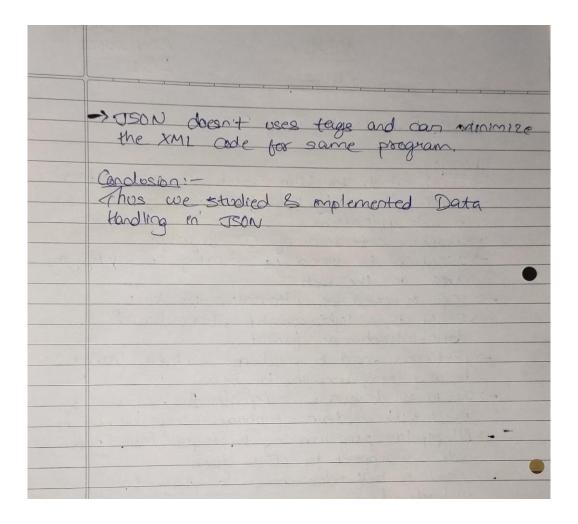
Batch: B/B1

ADBMS Exp8

<u>Aim:</u> Data handling using JSON. (Display user information from JSON file downloaded from Mobile)

Theory:

ADBMS Dhave Bheda
60001200100
Exp. 8 3/81
Am . Die wed
Arm: Data Handling using Jeon:
Theosy:
> JON Stands In This of
TISON is bosen ill in Jeript Object Notation
> JEON stands for Towa-Script Object Notation > JEON is basically used for data transmission in web applications.
TOON IS extension at The land
-> JSANI MA he 128 Ed 1 dage
TISON is extension of US language TISON can be used for storing & exchanging data on the web
-> It is used as attendative to XML
> JSON & a light-weight, text based
data-interchange format
-> Text can read & used as a data format
by any programming language.
by any programming language. -> JSON is language independent & on be used with modern programming languages -> All popular programming languages have passing
used with modern programming languages
-> All popular programming languages have passing
CODE DOPPOSE NO COM C.
> JSON is self-describing & casy to
USINEMETERA
The has like extension JSON.
JEAN supports name plus voices, some
Light Ventra CPOINTING
A long long of the course
11. lenthu he muse and
defined tage for easy indepotending of
the osen.



Implementing Queries-Selecting a DB

test> use reddit; switched to db reddit reddit>

Showing all Databases

```
reddit> show dbs;
admin 100.00 KiB
config 60.00 KiB
local 72.00 KiB
reddit 8.00 KiB
reddit>
```

Dropping a Database

```
reddit> use twitter;
switched to db twitter
twitter> db.dropDatabase();
{ ok: 1, dropped: 'twitter' }
twitter> |
```

Creating a collection

```
reddit> db.createCollection("posts");
{ ok: 1 }
reddit> |
```

Dropping a collection

```
reddit> db.comments.drop();
true
reddit> |
```

Inserting multiple documents

```
reddit> db.posts.insertMany([{ title: "Funny Meme", image: "https://wikipedia.com/troll_face", votes: 123, posted_by: "l
ca_tejas" }, { title: "Damn: reddit", text: "Your reddit is damn: reddit", votes: 12, posted_by: "meetp90" }]);
{
   acknowledged: true,
   insertedIds: {
      '0': ObjectId("6389fde4880a8e67b5db4a3b"),
      '1': ObjectId("6389fde4880a8e67b5db4a3c")
   }
}
reddit> |
```

Updating documents

```
reddit> db.posts.update({ posted_by: "meetp90" }, { $set: { title: "How to get stuff back!" } });
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 0
}
reddit> db.posts.find();
[
    __id: ObjectId("6389fde4880a8e67b5db4a3b"),
    title: 'Funny Meme',
    image: 'https://wikipedia.com/troll_face',
    votes: 123,
    posted_by: 'lca_tejas'
},
    __id: ObjectId("6389fde4880a8e67b5db4a3c"),
    title: 'How to get stuff back!',
    text: 'Your reddit is damn: reddit',
    votes: 12,
    posted_by: 'meetp90'
}
```

Querying the documents

Deleting documents

```
reddit> db.posts.remove({ votes: { $lt: 100 } });
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 1 }
```

Importing json

```
# mongoimport --db reddit --collection posts --jsonArray --authenticationDatabase admin -u root -p pass@123 --file ./pos
ts.json
2022-12-02T14:42:23.925+0000
                                           connected to: mongodb://localhost/
2022-12-02T14:42:23.932+0000
                                           3 document(s) imported successfully. 0 document(s) failed to import.
      _id: ObjectId("638a0ecfecbf380e4d3fafc3"),
     title:
           e: <sup>1</sup>Hass lo guys, very funny',
e: 'https://www.google.com/url?sa=i&url=https%3A%2F%2Fknowyourmeme.com%2Fmemes%2Fwalter-white-breaks-down&psig=A
rXAvEUTQclpJMPUNmWy&ust=1670075371754000&source=images&cd=vfe&ved=0CA0QjRxqFwoTCNDpt0aJ2_sCFQAAAAAAAAAABAD',
     image:
    votes: 2234,
posted_by: 'kunaljx86'
      _id: ObjectId("638a0ecfecbf380e4d3fafc4"),
     title: 'No idea',
text: 'What is this post even',
    votes: 3234,
posted_by: 'lca_tejas'
     _id: ObjectId("638a0ecfecbf380e4d3fafc5"),
     title: 'bruh!',
image: 'bruh sound effect (x100)',
    votes: 22342,
posted_by: 'meetp90'
```

Exporting as json

```
# mongoexport --db reddit --collection posts --out ./posts_db.json --authenticationDatabase admin -u root -p pass@123 2022-12-02T14:46:53.394+0000 connected to: mongodb://localhost/
2022-12-02T14:46:53.402+0000 exported 8 records

# cat posts_db.json
{"_id":["$oid":"6389fde4880a8e67b5db4a3b"},"title":"Funny Meme","image":"https://wikipedia.com/troll_face","votes":123," posted_by":"lca_tejas"}
{"_id":["$oid":"6389ff86880a8e67b5db4a3d"},"title":"Jharkhand is not real","text":"Jharkhand is not real guys. It is a p ropoganda tool","votes":3321,"posted_by":"lca_tejas"}
{"_id":["$oid":"6389ff86880a8e67b5db4a3e"},"title":"Emojis bad","text":"Emojis bad, please laugh","votes":1212,"posted_b y":"meetp90"}
{"_id":["$oid":"638a0009880a8e67b5db4a3f"},"title":"Soggy cat","image":"https://preview.redd.it/cxjsjx27g7j81.jpg?auto=w ebp&s=d09b1a5e785562455e3661a186087e398c0546d0","votes":33213, "posted_by":"lca_tejas"}
{"_id":["$oid":"638a0009880a8e67b5db4a40"},"title":"We did it,"rtext":"We did it reddit! We broke the stock markets arou nd the world and dilluted all the world currency!","votes":12134, "posted_by":"meetp90"}
{"_id":[$oid":"638a0ecfecbf380e4d3fafc3"},"title":"Hass lo guys, very funny","image":"https://www.google.com/url?sa=i&u rl=https%3A%2F%2Fknowyourmeme.com%2Fmemes%2Fwalter-white-breaks-down&psig-AOVVaw3-rrXAvEUTQclpJMPDNmWy&ust=1670075371754
000&source=images&cd=vfe&ved=0CA0QjRxqFwoTCNDptOaJ2_sCFQAAAAAdAAAAABAD","votes":2234,"posted_by":"kunaljx86"}
{"_id":[$oid":"638a0ecfecbf380e4d3fafc4"},"title":"No idea","text":"What is this post even","votes":3234,"posted_by":"lca_tejas"}
{"_id":[$oid":"638a0ecfecbf380e4d3fafc4"},"title":"No idea","text":"What is this post even","votes":3234,"posted_by":"lca_tejas"}
{"_id":[$oid":"638a0ecfecbf380e4d3fafc4"},"title":"Druh!","image":"bruh sound effect (x100)","votes":22342,"posted_by":"meetp90"}
"meetp90"}
```

Conclusion:

Thus, we successfully implemented data handling using JSON.