Q1 : Create a DAtabase named 'MYWall'

```
> show dbs;
admin    0.000GB
config   0.000GB
dbname   0.000GB
local    0.000GB
> use MYWall;
switched to db MYWall
```

Q2. Create two collections named 'user' and 'post'.

```
> db.createCollection("user")
{ "ok" : 1 }
> db.createCollection("post")
{ "ok" : 1 }
> show collections;
post
user
```

Q3. Insert some post related information like post_id, title, description, posted_by, comments, created_at etc.

User Insert :

```
> db.user.insertMany([{"user_id": 1,"name": "Abhishek Yadav"},{"user_id": 2,"name": "Ashutosh R
aj"},{"user_id": 3,"name": "Jitender Singh"},{"user_id": 4,"name": "Rubi Saini"}]);
{
        "acknowledged" : true,
        "insertedIds" : [
                ObjectId("5cb59d1b531a4a21b80e8815"),
                ObjectId("5cb59d1b531a4a21b80e8816"),
                ObjectId("5cb59d1b531a4a21b80e8817"),
                ObjectId("5cb59d1b531a4a21b80e8818")
        ]
}
> db.user.find().pretty();
{
        "_id" : ObjectId("5cb59d1b531a4a21b80e8815"),
        "user_id" : 1,
        "name" : "Abhishek Yadav"
}
{
        "_id" : ObjectId("5cb59d1b531a4a21b80e8816"),
        "user_id" : 2,
        "name" : "Ashutosh Raj"
}
{
        "_id" : ObjectId("5cb59d1b531a4a21b80e8817"),
        "user_id" : 3,
        "name" : "Jitender Singh"
}
{
        "_id" : ObjectId("5cb59d1b531a4a21b80e8818"),
        "user_id" : 4,
        "name" : "Rubi Saini"
}
```

Insert Posts :

```
> db.post.insert(
...    {
...        "post_id":1,
...        "title":"First Post",
...        "description":"this is post description",
...        "posted_by":1,
...        "created_at":Date(),
...        "comments":[
...           {
...              "comment_id":1,
...              "message":"this is comment message",
...              "timestamp":Date()
...           },
...           {
...              "comment_id":2,
...              "message":"this is comment message 2",
...              "timestamp":Date()
...           }
...        ],
...
...    }
... );
WriteResult({ "nInserted" : 1 })
```

```
> db.post.find().pretty();
{
        "_id" : ObjectId("5cb5a374531a4a21b80e8819"),
        "post_id" : 1,
        "title" : "First Post",
        "description" : "this is post description",
        "posted_by" : 1,
        "created_at" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)",
        "comments" : [
                {
                        "comment_id" : 1,
                        "message" : "this is comment message",
                        "timestamp" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)"
                },
                {
                        "comment_id" : 2,
                        "message" : "this is comment message 2",
                        "timestamp" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)"
                }
        ]
}
{
        "_id" : ObjectId("5cb5a53e531a4a21b80e881a"),
        "post_id" : 2,
        "title" : "second Post",
        "description" : "this is post description",
        "posted_by" : 1,
        "created_at" : "Tue Apr 16 2019 15:19:50 GMT+0530 (IST)",
        "comments" : [
                {
                        "comment_id" : 1,
                        "message" : "this is comment message",
                        "timestamp" : "Tue Apr 16 2019 15:19:50 GMT+0530 (IST)"
                },
                {
                        "comment_id" : 2,
```

Q4. Comments should be an array of objects which has commnet_id, Message, timestamp.

Ans: Answer to this question is covered in above question's answer.

Q5. Write query to add a new comment fro a post.

Ans: Writing a query to comment on post 1.

```
> db.post.update({post_id:1},
... {
...   $push:{comments:[
...   {
...    "comment_id":3,
...    "message":"this is new comment",
...    "timestamp":Date()
...   }
...   ]}
...   }
... );
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

Displaying the updataion:

```
> db.post.find({post_id:1}).pretty();
{
        "_id" : ObjectId("5cb5a374531a4a21b80e8819"),
        "post_id" : 1,
        "title" : "First Post",
        "description" : "this is post description",
        "posted_by" : 1,
        "created_at" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)",
        "comments" : [
                {
                        "comment_id" : 1,
                        "message" : "this is comment message",
                        "timestamp" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)"
                },
                {
                        "comment_id" : 2,
                        "message" : "this is comment message 2",
                        "timestamp" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)"
                },
                [
                        {
                                "comment_id" : 3,
                                "message" : "this is new comment",
                                "timestamp" : "Tue Apr 16 2019 15:53:29 GMT+0530 (IST)"
                        }
                ]
        ]
}
```

Q6: Write a query to update description of a post.

Ans:

```
> db.post.update(
... {post_id:1},
... {$set:{
... 'description':"this is modified description of the post"
... }}
... );
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

Showing updated value:

```
> db.post.find({post_id:1}).pretty();
{
        "_id" : ObjectId("5cb5a374531a4a21b80e8819"),
        "post_id" : 1,
        "title" : "First Post",
        "description" : "this is modified description of the post",
        "posted_by" : 1,
        "created_at" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)",
        "comments" : [
                {
                        "comment_id" : 1,
                        "message" : "this is comment message",
                        "timestamp" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)"
                },
                {
                        "comment_id" : 2,
                        "message" : "this is comment message 2",
                        "timestamp" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)"
                },
                [
                        {
                                "comment_id" : 3,
                                "message" : "this is new comment",
                                "timestamp" : "Tue Apr 16 2019 15:53:29 GMT+0530 (IST)"
                        }
                ]
        ]
}
```

Q7. Write a query to update a comment message.

Ans:

```
> db.post.update(
... {post_id:1,'comments.comment_id':1},
... {$set:{
... 'comments.$.message':"This is edited comment"
... }}
... );
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({post_id:1},{comments:1}).pretty();
{
        "_id" : ObjectId("5cb5a374531a4a21b80e8819"),
        "comments" : [
                {
                        "comment_id" : 1,
                        "message" : "This is edited comment",
                        "timestamp" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)"
                },
                {
                        "comment_id" : 2,
                        "message" : "this is comment message 2",
                        "timestamp" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)"
                },
                [
                        {
                                "comment_id" : 3,
                                "message" : "this is new comment",
                                "timestamp" : "Tue Apr 16 2019 15:53:29 GMT+0530 (IST)"
                        }
                ]
        ]
}
>
```

Q8. Write a query to remove a comment.

Ans: In this snippet. Comment 2 of post_id 1 will be deleted.

```
> db.post.update({post_id:1},{$pull:{comments:{"comment_id":2}}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.post.find({post_id:1},{comments:1}).pretty();
{
        "_id" : ObjectId("5cb5a374531a4a21b80e8819"),
        "comments" : [
                {
                        "comment_id" : 1,
                        "message" : "This is edited comment",
                        "timestamp" : "Tue Apr 16 2019 15:12:12 GMT+0530 (IST)"
                },
                [
                        {
                                "comment_id" : 3,
                                "message" : "this is new comment",
                                "timestamp" : "Tue Apr 16 2019 15:53:29 GMT+0530 (IST)"
                        }
                ]
        ]
}
```