

**NAME : SHER ALI**

**ROLL NO: P21-8024**

**BCS-5A**

**LAB TASK 3**

## SUDO DOCKER-COMPOSE BUILD

```
sherali@linux:~$ cd Desktop/  
sherali@linux:~/Desktop$ cd LAB\ TASK\ 3/  
sherali@linux:~/Desktop/LAB TASK 3$ sudo docker-compose build  
[sudo] password for sherali:  
mongodb uses an image, skipping  
mongo-express uses an image, skipping
```

## SUDO DOCKER PULL MONGO

```
sherali@linux:~/Desktop/LAB TASK 3$ sudo docker pull mongo  
Using default tag: latest  
latest: Pulling from library/mongo  
707e32e9fc56: Pull complete  
c7ac84d07e95: Pull complete  
ce678af55db4: Pull complete  
e6212b74a0e2: Pull complete  
08077ff6df71: Pull complete  
5c1db0580f35: Pull complete  
9d294053e6f8: Pull complete  
c2aad3066658: Pull complete  
e596cadf5785: Pull complete  
Digest: sha256:d4e2a8cc40e141c9a2fc80b2ca7e747d2241f4203bed5bcd6842a8b31a3b6f6c  
Status: Downloaded newer image for mongo:latest  
docker.io/library/mongo:latest
```

## SUDO DOCKER-COMPOSE UP

```
sherali@linux:~/Desktop/LAB TASK 3$ sudo docker-compose up  
Creating network "labtask3_default" with the default driver  
Pulling mongo-express (mongo-express:)...  
latest: Pulling from library/mongo-express  
9398808236ff: Pull complete  
e8dad1cef999: Pull complete  
865eba8aa719: Pull complete  
30efa6c25370: Pull complete  
7dce78b77cae: Pull complete  
6053c98846fe: Pull complete  
Digest: sha256:b1579aa8b6164281384556b474c61b8ecdabb6cdaa0bd1f7f56964c6117dfce49  
Status: Downloaded newer image for mongo-express:latest  
Creating labtask3_mongo-express_1 ... done  
Creating labtask3_mongodb_1      ... done  
Attaching to labtask3_mongo-express_1, labtask3_mongodb_1
```

## MONGO EXPRESS SERVER

```
mongo-express_1 | Mongo Express server listening at http://0.0.0.0:8081  
mongo-express_1 | Server is open to allow connections from anyone (0.0.0.0)  
mongo-express_1 | basicAuth credentials are "admin:pass", it is recommended you change this in your config.js!
```

# ALL RUNNING CONTAINER

```
sherali@linux:~/Desktop/LAB TASK 3$ sudo docker ps
[sudo] password for sherali:
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
NAMES
977fab5bc987   mongo         "docker-entrypoint.s..." 34 minutes ago Up 34 minutes 0.0.0.0:27017->27017/tcp, :::27017->27017/tcp
labtask3_mongodb_1
98d0e88f35b4   mongo-express  "/sbin/tini -- /dock..." 34 minutes ago Up 34 minutes 0.0.0.0:8081->8081/tcp, :::8081->8081/tcp
labtask3_mongo-express_1
```

# MONGO EXPRESS

## Mongo Express

Databases

Database Name

+ Create Database

<div>View</div>	admin	<div>Del</div>
<div>View</div>	config	<div>Del</div>
<div>View</div>	local	<div>Del</div>
<div>View</div>	sherali	<div>Del</div>

Server Status

Hostname	977fab5bc987	MongoDB Version	7.0.2
Uptime	2929 seconds	Node Version	18.18.0
Server Time	Thu, 12 Oct 2023 07:27:20 GMT	V8 Version	10.2.154.26-node.26
Current Connections	3	Available Connections	838857
Active Clients	0	Queued Operations	0
Clients Reading	0	Clients Writing	0
Read Lock Queue	0	Write Lock Queue	0

# VIEWING DATABASE

## Viewing Database: sherali

Collections

Collection Name

+ Create collection

<div>View</div>	<div>Export</div>	<div>[JSON]</div>	<div>Import</div>	delete_me	<div>Del</div>
<div>View</div>	<div>Export</div>	<div>[JSON]</div>	<div>Import</div>	p21-8024	<div>Del</div>

Database Stats

Collections (incl. system.namespaces)	2
Data Size	2.24 KB
Storage Size	41.0 KB
Avg Obj Size #	112 Bytes
Objects #	20
Indexes #	2
Index Size	41.0 KB

# VIEW COLLECTION

## Viewing Collection: p21-8024

New Document

New Index

Simple

Advanced

Key

Value

String

Find

Delete all 20 documents retrieved

First

Prev

Next

Last

# MY DATABASE

## Viewing Collection: p21-8024

New Document

New Index

Simple

Advanced

Key

Value

String

Find

Delete all 20 documents retrieved

First

Prev

Next

Last

_id	Name	Id	Address	Contact	Department
65279576c3ecb37c752a4f29	Sher	1	peshawar	0320	CS
652795c4c3ecb37c752a4f2a	ali	2	islamabad	0321	se
65279633c3ecb37c752a4f2b	saad	3	rawalpindi	0333	EE
65279697c3ecb37c752a4f2c	suliman	4	Gulberg 1	0333	BBA
652796e4c3ecb37c752a4f2d	saad zahid	5	Gulberg 2	0333	CS
65279707c3ecb37c752a4f2e	Afsha	6	Gulberg 3	0333	CS
65279729c3ecb37c752a4f2f	Asad	7	Gulberg 4	0332	CS
6527975dc3ecb37c752a4f30	samad	8	Gulberg 5	0321	SE
652797c8c3ecb37c752a4f31	ZARA	9	Gulberg 6	0333	CS
652797f0c3ecb37c752a4f32	saad zahid	10	Gulberg 7	0322	SE

# VIEWING COLLECTION STATS

### Collection Stats

Documents	20
Total doc size	2.19 KB
Average doc size	112 Bytes
Pre-allocated size	36 KB
Indexes	1
Total index size	36 KB
Padding factor	
Extents	

### Indexes

Name	Columns	Size	Attributes	Actions
_id_	_id ASC	36 KB		DEL

