

File Edit Selection View Go Run ...

miniproj

EXPLORER

MINIPROJ

java \ com \ javatechie \ crud

controller

OrderController.java

entity

Order.java

repository

OrderRepository.java

service

SpringbootCrudK8sExampleAp...

resources

application.properties M

application.yml

test

target

app-deployment.yaml M

db-deployment.yaml M

Dockerfile M

pom.xml 1, M

README.md

OUTLINE

TIMELINE Dockerfile

File Saved 2 hrs

#code Basant kumar Hota 1 yr

JAVA PROJECTS

cation.java

OrderController.java

application.properties M

application.yml

Dockerfile M

springboot-crud-k8s > Dockerfile

1 FROM openjdk:8

2 EXPOSE 8080

3 COPY target/springboot-crud-k8s.jar springboot-crud-k8s.jar

4 ENTRYPOINT ["java", "-jar", "/springboot-crud-k8s.jar"]

Do you want to install the recommended extension for Docker?

Install

Show Recommendations

main*

Ln 4, Col 54 Spaces: 4 UTF-8 CRLF Docker Go Live

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04:17 PM 27-04-2023

Command Prompt - mysql -uroot -p

Microsoft Windows [Version 10.0.19043.928]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DELL>mysql -uroot -p

Enter password: ****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 181

Server version: 5.7.33-log MySQL Community Server (GPL)

Copyright (c) 2000, 2021, Oracle and/or its affiliates.

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use mydatabase;

Database changed

mysql> select * from orders_tbl;

```
+-----+-----+-----+-----+
| id | name | price | qty |
+-----+-----+-----+-----+
| 1 | watch | 2000 | 2 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

mysql> mysql version

-> ;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'mysql version' at line 1

mysql> select version();

```
+-----+
| version() |
+-----+
| 5.7.33-log |
+-----+
1 row in set (0.05 sec)
```

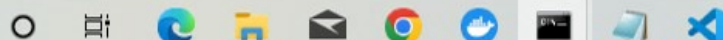
mysql> drop mydatabase;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'mydatabase' at line 1

mysql> drop database mydatabase;

Query OK, 2 rows affected (0.59 sec)

Windows taskbar search bar: Type here to search



04:14 PM
27-04-2023



Command Prompt - mysql -uroot -p

```
t line 1
mysql> drop database mydatabase;
Query OK, 2 rows affected (0.59 sec)

mysql> create database mydatabase;
Query OK, 1 row affected (0.02 sec)

mysql> show tables;
ERROR 1046 (3D000): No database selected
mysql> use mydatabase;
Database changed
mysql> show tables;
+-----+
| Tables_in_mydatabase |
+-----+
| hibernate_sequence    |
| orders_tbl            |
+-----+
2 rows in set (0.00 sec)

mysql> show tables;
+-----+
| Tables_in_mydatabase |
+-----+
| hibernate_sequence    |
| orders_tbl            |
+-----+
2 rows in set (0.00 sec)

mysql> select * from orders_tbl;
Empty set (0.00 sec)

mysql> select * from orders_tbl;
+----+-----+-----+-----+
| id | name  | price | qty |
+----+-----+-----+-----+
| 1  | watch | 2000  | 2   |
+----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> _
```

Type here to search



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27-04-2023
ENG


```
Command Prompt
service/mysql unchanged
The request is invalid: patch: Invalid value: "map[metadata:map[annotations:map[kubect1.kubernetes.io/last-applied-configuration:{\"apiVersion\": \"apps/v1\", \"kind\": \"Deployment\", \"metadata\": {\"annotations\": {}, \"labels\": {\"app\": \"mysql\", \"tier\": \"database\"}, \"name\": \"mysql\", \"namespace\": \"default\"}, \"spec\": {\"selector\": {\"matchLabels\": {\"app\": \"mysql\", \"tier\": \"database\"}}, \"strategy\": {\"type\": \"Recreate\"}, \"template\": {\"metadata\": {\"labels\": {\"app\": \"mysql\", \"tier\": \"database\"}}, \"spec\": {\"containers\": [{\"args\": [\"--ignore-db-dir=lost+found\"], \"env\": [{\"name\": \"MYSQL_ROOT_PASSWORD\", \"value\": \"1234\"}, {\"name\": \"MYSQL_DATABASE\", \"value\": \"javatechie\"}], \"image\": \"mysql:5.7\", \"name\": \"mysql\", \"ports\": [{\"containerPort\": 3306, \"name\": \"mysql\"}], \"volumeMounts\": [{\"mountPath\": \"/var/lib/mysql\", \"name\": \"mysql-persistent-storage\"}]}], \"volumes\": [{\"name\": \"mysql-persistent-storage\", \"persistentVolumeClaim\": {\"claimName\": \"mysql-pv-claim\"}}]}]}] spec:map[template:map[spec:map[]]]": cannot convert int64 to string

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubect1 apply -f db-deployment.yaml
persistentvolumeclaim/mysql-pv-claim unchanged
deployment.apps/mysql configured
service/mysql unchanged

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubect1 get pods
NAME                                READY   STATUS              RESTARTS   AGE
mysql-7b47b674b7-cwc29              0/1     ContainerCreating   0           4s
nginx-deployment-95585b474-x4gkw    1/1     Running             3 (89m ago) 23h

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubect1 logs mysql-7b47b674b7-cwc29
2023-04-27 07:58:52+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.42-1.el7 started.
2023-04-27 07:58:53+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2023-04-27 07:58:53+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.42-1.el7 started.
2023-04-27 07:58:53+00:00 [Note] [Entrypoint]: Initializing database files
2023-04-27T07:58:53.858673Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more details).
2023-04-27T07:58:56.321706Z 0 [Warning] InnoDB: New log files created, LSN=45790
2023-04-27T07:58:57.118591Z 0 [Warning] InnoDB: Creating foreign key constraint system tables.
2023-04-27T07:58:57.720750Z 0 [Warning] No existing UUID has been found, so we assume that this is the first time that this server has been started. Generating a new UUID: 5cf4ef98-e4d1-11ed-acb0-a2c2e485512c.
2023-04-27T07:58:57.870115Z 0 [Warning] Gtid table is not ready to be used. Table 'mysql.gtid_executed' cannot be opened.
2023-04-27T07:58:58.177351Z 0 [Warning] A deprecated TLS version TLSv1 is enabled. Please use TLSv1.2 or higher.
2023-04-27T07:58:58.177392Z 0 [Warning] A deprecated TLS version TLSv1.1 is enabled. Please use TLSv1.2 or higher.
2023-04-27T07:58:58.178917Z 0 [Warning] CA certificate ca.pem is self signed.
2023-04-27T07:58:58.234426Z 1 [Warning] root@localhost is created with an empty password ! Please consider switching off the --initialize-insecure option.

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubect1 get pods
NAME                                READY   STATUS    RESTARTS   AGE
mysql-7b47b674b7-cwc29              1/1     Running   0           47s
nginx-deployment-95585b474-x4gkw    1/1     Running   3 (89m ago) 23h

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubect1 logs mysql-85b5fc646-kjfqg
Error from server (NotFound): pods "mysql-85b5fc646-kjfqg" not found
```


Command Prompt

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubectl logs mysql-85b5fc646-kjfqg
Error from server (NotFound): pods "mysql-85b5fc646-kjfqg" not found

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubectl logs mysql-7b47b674b7-cwc29

2023-04-27 07:58:52+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.42-1.el7 started.
2023-04-27 07:58:53+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2023-04-27 07:58:53+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.42-1.el7 started.
2023-04-27 07:58:53+00:00 [Note] [Entrypoint]: Initializing database files
2023-04-27T07:58:53.858673Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more details).
2023-04-27T07:58:56.321706Z 0 [Warning] InnoDB: New log files created, LSN=45790
2023-04-27T07:58:57.118591Z 0 [Warning] InnoDB: Creating foreign key constraint system tables.
2023-04-27T07:58:57.720750Z 0 [Warning] No existing UUID has been found, so we assume that this is the first time that this server has been started. Generating a new UUID: 5cf4ef98-e4d1-11ed-acb0-a2c2e485512c.
2023-04-27T07:58:57.870115Z 0 [Warning] Gtid table is not ready to be used. Table 'mysql.gtid_executed' cannot be opened.
2023-04-27T07:58:58.177351Z 0 [Warning] A deprecated TLS version TLSv1 is enabled. Please use TLSv1.2 or higher.
2023-04-27T07:58:58.177392Z 0 [Warning] A deprecated TLS version TLSv1.1 is enabled. Please use TLSv1.2 or higher.
2023-04-27T07:58:58.178917Z 0 [Warning] CA certificate ca.pem is self signed.
2023-04-27T07:58:58.234426Z 1 [Warning] root@localhost is created with an empty password ! Please consider switching off the --initialize-insecure option.
2023-04-27 08:00:03+00:00 [Note] [Entrypoint]: Database files initialized
2023-04-27 08:00:03+00:00 [Note] [Entrypoint]: Starting temporary server
2023-04-27 08:00:03+00:00 [Note] [Entrypoint]: Waiting for server startup
2023-04-27T08:00:03.846626Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more details).
2023-04-27T08:00:03.849624Z 0 [Note] mysqld (mysqld 5.7.42) starting as process 125 ...
2023-04-27T08:00:03.855849Z 0 [Note] InnoDB: PUNCH HOLE support available
2023-04-27T08:00:03.855920Z 0 [Note] InnoDB: Mutexes and rw_locks use GCC atomic builtins
2023-04-27T08:00:03.855931Z 0 [Note] InnoDB: Uses event mutexes
2023-04-27T08:00:03.855935Z 0 [Note] InnoDB: GCC builtin __atomic_thread_fence() is used for memory barrier
2023-04-27T08:00:03.855939Z 0 [Note] InnoDB: Compressed tables use zlib 1.2.13
2023-04-27T08:00:03.855946Z 0 [Note] InnoDB: Using Linux native AIO
2023-04-27T08:00:03.856310Z 0 [Note] InnoDB: Number of pools: 1
2023-04-27T08:00:03.856476Z 0 [Note] InnoDB: Using CPU crc32 instructions
2023-04-27T08:00:03.859857Z 0 [Note] InnoDB: Initializing buffer pool, total size = 128M, instances = 1, chunk size = 128M
2023-04-27T08:00:03.878029Z 0 [Note] InnoDB: Completed initialization of buffer pool
2023-04-27T08:00:03.882582Z 0 [Note] InnoDB: If the mysqld execution user is authorized, page cleaner thread priority can be changed. See the man page of setpriority().
2023-04-27T08:00:03.895528Z 0 [Note] InnoDB: Highest supported file format is Barracuda.
2023-04-27T08:00:04.032378Z 0 [Note] InnoDB: Creating shared tablespace for temporary tables
2023-04-27T08:00:04.032614Z 0 [Note] InnoDB: Setting file './ibtmp1' size to 12 MB. Physically writing the file full; Please wait ...
2023-04-27T08:00:04.200750Z 0 [Note] InnoDB: File './ibtmp1' size is now 12 MB.
2023-04-27T08:00:04.201908Z 0 [Note] InnoDB: 96 redo rollback segment(s) found. 96 redo rollback segment(s) are active.
2023-04-27T08:00:04.201909Z 0 [Note] InnoDB: 32 non-redo rollback segment(s) are active.
2023-04-27T08:00:04.205069Z 0 [Note] InnoDB: 5.7.42 started; log sequence number 2770892

Command Prompt

```

2023-04-27T08:00:29.093047Z 0 [Warning] A deprecated TLS version TLSv1.1 is enabled. Please use TLSv1.2 or higher.
2023-04-27T08:00:29.093677Z 0 [Warning] CA certificate ca.pem is self signed.
2023-04-27T08:00:29.093755Z 0 [Note] Skipping generation of RSA key pair as key files are present in data directory.
2023-04-27T08:00:29.094113Z 0 [Note] Server hostname (bind-address): '*'; port: 3306
2023-04-27T08:00:29.094409Z 0 [Note] IPv6 is available.
2023-04-27T08:00:29.094690Z 0 [Note] - '::' resolves to '::';
2023-04-27T08:00:29.094745Z 0 [Note] Server socket created on IP: '::'.
2023-04-27T08:00:29.152768Z 0 [Warning] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a
different directory.
2023-04-27T08:00:29.160154Z 0 [Note] Event Scheduler: Loaded 0 events
2023-04-27T08:00:29.160661Z 0 [Note] mysqld: ready for connections.
Version: '5.7.42' socket: '/var/run/mysqld/mysqld.sock' port: 3306 MySQL Community Server (GPL)

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
mysql-7b47b674b7-cwc29              1/1     Running   0           11m
nginx-deployment-95585b474-x4gkw    1/1     Running   3 (100m ago) 23h

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>ls
'ls' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>docker ls
docker: 'ls' is not a docker command.
See 'docker --help'

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>dir
Volume in drive C is WIN10
Volume Serial Number is 9A14-9E92

Directory of C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s

27-04-2023  01:19 PM    <DIR>          .
27-04-2023  01:19 PM    <DIR>          ..
27-04-2023  01:27 PM                2,287 db-deployment.yaml
26-04-2023  11:41 AM                142 Dockerfile
26-04-2023  11:46 AM               1,981 pom.xml
26-04-2023  11:41 AM                88 README.md
26-04-2023  11:41 AM    <DIR>          src
26-04-2023  11:45 AM    <DIR>          target
                4 File(s)          4,498 bytes
                4 Dir(s) 125,184,348,160 bytes free

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>

```



```
Command Prompt

Usage: docker build [OPTIONS] PATH | URL | -

Build an image from a Dockerfile

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>docker build -t springboot-crud-k8s:1.0 .
[+] Building 160.9s (7/7) FINISHED
=> [internal] load .dockerignore 0.5s
=> => transferring context: 2B 0.0s
=> [internal] load build definition from Dockerfile 0.8s
=> => transferring dockerfile: 182B 0.0s
=> [internal] load metadata for docker.io/library/openjdk:8 4.9s
=> [internal] load build context 2.5s
=> => transferring context: 38.57MB 2.2s
=> [1/2] FROM docker.io/library/openjdk:8@sha256:86e863cc57215cfb181bd319736d0baf625fe8f150577f9eb58bd937f5452cb8 136.3s
=> => resolve docker.io/library/openjdk:8@sha256:86e863cc57215cfb181bd319736d0baf625fe8f150577f9eb58bd937f5452cb8 0.6s
=> => sha256:86e863cc57215cfb181bd319736d0baf625fe8f150577f9eb58bd937f5452cb8 1.04kB / 1.04kB 0.0s
=> => sha256:3af2ac94130765b73fc8f1b42ffcf04f77996ed8210c297fcfa28ca880ff0a217 1.79kB / 1.79kB 0.0s
=> => sha256:b273004037cc3af245d8e08cfbfa672b93ee7dcb289736c82d0b58936fb71702 7.81kB / 7.81kB 0.0s
=> => sha256:001c52e26ad57e3b25b439ee0052f6692e5c0f2d5d982a00a8819ace5e521452 55.00MB / 55.00MB 66.7s
=> => sha256:d9d4b9b6e964657da49910b495173d6c4f0d9bc47b3b44273cf82fd32723d165 5.16MB / 5.16MB 17.9s
=> => sha256:2068746827ec1b043b571e4788693eab7e9b2a95301176512791f8c317a2816a 10.88MB / 10.88MB 16.8s
=> => sha256:9daef329d35093868ef75ac8b7c6eb407fa53abbcb3a264c218c2ec7bca716e6 54.58MB / 54.58MB 89.8s
=> => sha256:d85151f15b6683b98f21c3827ac545188b1849efb14a1049710ebc4692de3dd5 5.42MB / 5.42MB 25.8s
=> => sha256:52a8c426d30b691c4f7e8c4b438901ddeb82ff80d4540d5bbd49986376d85cc9 210B / 210B 26.6s
=> => sha256:8754a66e005039a091c5ad0319f055be393c7123717b1f6fee8647c338ff3ceb 105.92MB / 105.92MB 118.4s
=> => extracting sha256:001c52e26ad57e3b25b439ee0052f6692e5c0f2d5d982a00a8819ace5e521452 7.8s
=> => extracting sha256:d9d4b9b6e964657da49910b495173d6c4f0d9bc47b3b44273cf82fd32723d165 0.6s
=> => extracting sha256:2068746827ec1b043b571e4788693eab7e9b2a95301176512791f8c317a2816a 0.8s
=> => extracting sha256:9daef329d35093868ef75ac8b7c6eb407fa53abbcb3a264c218c2ec7bca716e6 23.5s
=> => extracting sha256:d85151f15b6683b98f21c3827ac545188b1849efb14a1049710ebc4692de3dd5 0.7s
=> => extracting sha256:52a8c426d30b691c4f7e8c4b438901ddeb82ff80d4540d5bbd49986376d85cc9 0.0s
=> => extracting sha256:8754a66e005039a091c5ad0319f055be393c7123717b1f6fee8647c338ff3ceb 10.2s
=> [2/2] COPY target/springboot-crud-k8s.jar springboot-crud-k8s.jar 16.2s
=> exporting to image 1.5s
=> => exporting layers 1.2s
=> => writing image sha256:f60f9ed64563a0687b1fce921f4e91aea45fa2320154c13c137fc6e900c15133 0.1s
=> => naming to docker.io/library/springboot-crud-k8s:1.0 0.2s

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
springboot-crud-k8s 1.0 f60f9ed64563 13 seconds ago 565MB
mysql 5.7 dd6675b5cfea 9 days ago 569MB
registry.k8s.io/kube-apiserver v1.26.3 1d9b3cbae03c 6 weeks ago 134MB
```

Command Prompt

mysql	5.7	dd6675b5cfea	9 days ago	569MB
registry.k8s.io/kube-apiserver	v1.26.3	1d9b3cbae03c	6 weeks ago	134MB
registry.k8s.io/kube-scheduler	v1.26.3	5a7904736932	6 weeks ago	56.4MB
registry.k8s.io/kube-controller-manager	v1.26.3	ce8c2293ef09	6 weeks ago	123MB
registry.k8s.io/kube-proxy	v1.26.3	92ed2bec97a6	6 weeks ago	65.6MB
registry.k8s.io/etcd	3.5.6-0	fce326961ae2	5 months ago	299MB
registry.k8s.io/pause	3.9	e6f181688397	6 months ago	744kB
registry.k8s.io/coredns/coredns	v1.9.3	5185b96f0bec	11 months ago	48.8MB
gcr.io/k8s-minikube/storage-provisioner	v5	6e38f40d628d	2 years ago	31.5MB
nginx	1.16	dfcfd8e9a5d3	3 years ago	127MB

```
C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubectl apply -f app-deployment.yaml
deployment.apps/springboot-crud-deployment created
service/springboot-crud-svc created
```

```
C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubectl get deployment
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
mysql	1/1	1	1	3h13m
nginx-deployment	1/1	1	1	24h
springboot-crud-deployment	3/3	3	3	16s

```
C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubectl get svc
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	25h
mysql	ClusterIP	None	<none>	3306/TCP	3h13m
springboot-crud-svc	NodePort	10.103.101.7	<none>	8080:31140/TCP	32s

```
C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
mysql-7b47b674b7-cwc29	1/1	Running	0	67m
nginx-deployment-95585b474-x4gkw	1/1	Running	3 (156m ago)	24h
springboot-crud-deployment-5769ddfb5c-2b77s	1/1	Running	0	38s
springboot-crud-deployment-5769ddfb5c-vdng7	1/1	Running	0	38s
springboot-crud-deployment-5769ddfb5c-z5bks	1/1	Running	0	38s

```
C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubectl logs springboot-crud-deployment-5769ddfb5c-2b77s
```

```

  ____  _
 / ___|| | | |
| |___| |_| |
 \___ \|  __/
      |_|_|_|

:: Spring Boot :: (v2.6.1)

```


Command Prompt - kubect exec -it mysql-7b47b674b7-cwc29 /bin/bash

Microsoft Windows [Version 10.0.19043.928]

(c) Microsoft Corporation. All rights reserved.

C:\Users\DELL>kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
mysql-7b47b674b7-cwc29	1/1	Running	0	12m
nginx-deployment-95585b474-x4gkw	1/1	Running	3 (101m ago)	23h

C:\Users\DELL>kubectl exec -it mysql-7b47b674b7-cwc29 /bin/bash

kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.

bash-4.2# mysql -h mysql -u root -p

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 2

Server version: 5.7.42 MySQL Community Server (GPL)

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Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;

Database
information_schema
javatechie
mysql
performance_schema
sys

5 rows in set (0.00 sec)

mysql> use javatechie;

Database changed

mysql> exit;

Bye

bash-4.2# mysql -h mysql -u root -p

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 3

Type here to search



File Edit Selection View Go Run ... miniproj

EXPLORER

- MINIPROJ
 - springboot-crud-k8s
 - src
 - main
 - java\com\javatechie\crud
 - controller
 - OrderController.java
 - entity
 - Order.java
 - repository
 - service
 - resources
 - application.properties
 - application.yml
 - test
 - target
 - app-deployment.yaml
 - db-deployment.yaml
 - Dockerfile
- OUTLINE
- TIMELINE
 - Order.java
 - #code Basant kumar Hota 1 yr
- JAVA PROJECTS

springboot-crud-k8s > src > main > java > com > javatechie > crud > entity > Order.java > Order > id

```
4 import lombok.Data;
5 import lombok.NoArgsConstructor;
6
7 import javax.persistence.Entity;
8 import javax.persistence.GeneratedValue;
9 import javax.persistence.Id;
10 import javax.persistence.Table;
11
12 @Data
13 @AllArgsConstructor
14 @NoArgsConstructor
15 @Entity
16 @Table(name = "ORDERS_TBL")
17 public class Order {
18     @Id
19     @GeneratedValue
20     private int id;
21     private String name;
22     private int qty;
23     private double price;
24 }
25
```

Ln 18, Col 8 Spaces: 4 UTF-8 CRLF Java Go Live

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File Edit Selection View Go Run ... miniproj

EXPLORER

- MINIPROJ
 - springboot-crud-k8s
 - src
 - main
 - java\com\javatechie\crud
 - controller
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 - entity
 - Order.java
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 - SpringbootCrudK8sExampleAp...
 - resources
 - application.properties M
 - application.yml
 - test
 - target
 - app-deployment.yaml M
 - db-deployment.yaml M

OUTLINE

TIMELINE OrderRepository.java

 - #code Basant kumar Hota 1 yr

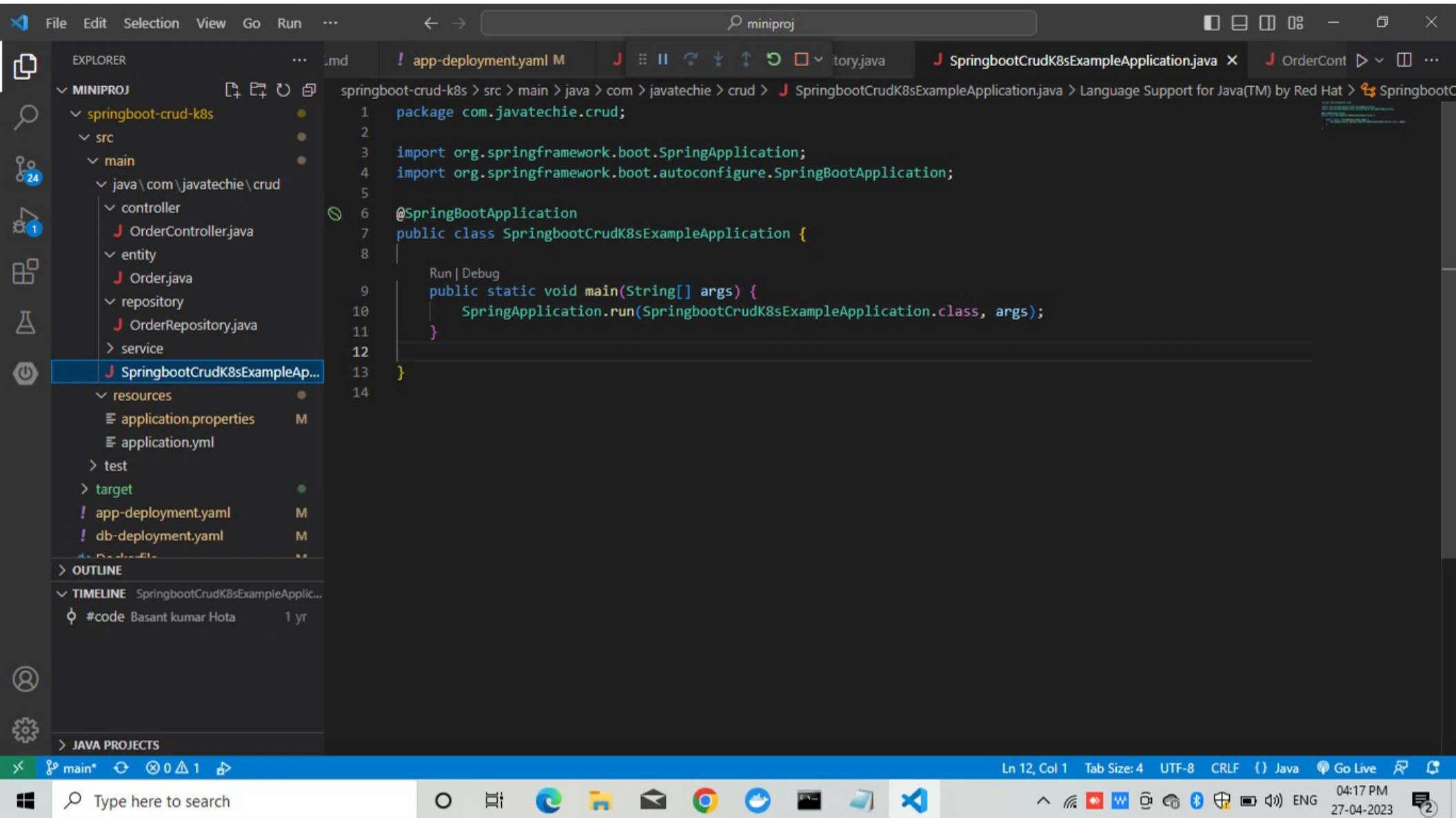
JAVA PROJECTS

```
springboot-crud-k8s > src > main > java > com > javatechie > crud > repository > OrderRepository.java > ...
1 package com.javatechie.crud.repository;
2
3 import com.javatechie.crud.entity.Order;
4 import org.springframework.data.jpa.repository.JpaRepository;
5
6 public interface OrderRepository extends JpaRepository<Order, Integer> {
7 }
8 |
```

Ln 8, Col 1 Spaces: 4 UTF-8 CRLF {} Java Go Live

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miniproj

EXPLORER

MINIPROJ

springboot-crud-k8s

src

main

java\com\javatechie\crud

controller

OrderController.java

entity

Order.java

repository

OrderRepository.java

service

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OUTLINE

TIMELINE application.properties

File Saved 12 mins

File Saved 25 mins

File Saved 1 day

File Saved

#code Basant kumar Hota 1 yr

JAVA PROJECTS

SpringbootCrudK8sExampleAppli

OrderController.java

Order.java

OrderRepository.java

SpringbootCrudK8sExampleAp...

application.properties

application.yml

app-deployment.yaml

db-deployment.yaml

springboot-crud-k8s > src > main > resources > application.properties

1

2 spring.datasource.url=jdbc:mysql://localhost:3306/mydatabase

3 spring.datasource.username=root

4 spring.datasource.password=1234

5

6

7

Ln 7, Col 1 Spaces: 4 UTF-8 CRLF Spring Boot Properties Go Live

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File Edit Selection View Go Run ... miniproj

EXPLORER

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OUTLINE

TIMELINE application.yml

 - #code Basant kumar Hota 1 yr

JAVA PROJECTS

springboot-crud-k8s > src > main > resources > application.yml

```
1 spring:
2   datasource:
3     driver-class-name: com.mysql.cj.jdbc.Driver
4     url: jdbc:mysql://${DB_HOST}/${DB_NAME}?useSSL=false
5     username: ${DB_USERNAME}
6     password: ${DB_PASSWORD}
7     hikari:
8       initialization-fail-timeout: 0
9   jpa:
10     database-platform: org.hibernate.dialect.MySQL5Dialect
11     generate-ddl: true
12     show-sql: true
13     hibernate:
14       ddl-auto: update
```

Ln 8, Col 37 Spaces: 2 UTF-8 CRLF Spring Boot Properties Yaml Go Live

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EXPLORER

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OUTLINE

 - TIMELINE app-deployment.yaml
 - File Saved 22 mins
 - File Saved 32 mins
 - File Saved 35 mins
 - File Saved 1 hr
 - File Saved

JAVA PROJECTS

main* 0 1

app-deployment.yaml M X Order.java SpringbootCrudK8sExampleApplication.java OrderController.ji

```
springboot-crud-k8s > ! app-deployment.yaml
1  apiVersion: apps/v1
2  kind: Deployment
3  metadata:
4    name: springboot-crud-deployment
5  spec:
6    selector:
7      matchLabels:
8        app: springboot-k8s-mysql
9    replicas: 3
10   template:
11     metadata:
12       labels:
13         app: springboot-k8s-mysql
14     spec:
15       containers:
16         - name: springboot-crud-k8s
17           image: springboot-crud-k8s:1.0
18           ports:
19             - containerPort: 8080
20           env: # Setting Enviornmental Variables
21             - name: DB_HOST # Setting Database host address from configMap
22               value: mysql
23             - name: DB_NAME # Setting Database name from configMap
24               value: javatechie
25             - name: DB_USERNAME # Setting Database username from Secret
26               value: root
27             - name: DB_PASSWORD # Setting Database password from Secret
28               value: "1234"
29
30 ---
31
32 apiVersion: v1 # Kubernetes API version
```

Ln 21, Col 35 Spaces: 2 UTF-8 CRLF YAML Go Live

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EXPLORER

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 - ! db-deployment.yaml M

OUTLINE

 - TIMELINE app-deployment.yaml
 - File Saved 22 mins
 - File Saved 32 mins
 - File Saved 35 mins
 - File Saved 1 hr
 - File Saved

JAVA PROJECTS

! app-deployment.yaml M X Order.java SpringbootCrudK8sExampleApplication.java OrderController.ji

springboot-crud-k8s > ! app-deployment.yaml

```
17 image: springboot-crud-k8s:1.0
18 ports:
19   - containerPort: 8080
20 env: # Setting Environmental Variables
21   - name: DB_HOST # Setting Database host address from configMap
22     value: mysql
23   - name: DB_NAME # Setting Database name from configMap
24     value: javatechie
25   - name: DB_USERNAME # Setting Database username from Secret
26     value: root
27   - name: DB_PASSWORD # Setting Database password from Secret
28     value: "1234"
29 ---
30
31 apiVersion: v1 # Kubernetes API version
32 kind: Service # Kubernetes resource kind we are creating
33 metadata: # Metadata of the resource kind we are creating
34   name: springboot-crud-svc
35 spec:
36   selector:
37     app: springboot-k8s-mysql
38   ports:
39     - protocol: "TCP"
40       port: 8080 # The port that the service is running on in the cluster
41       targetPort: 8080 # The port exposed by the service
42   type: NodePort # type of the service.
```

Ln 21, Col 35 Spaces: 2 UTF-8 CRLF YAML Go Live

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OUTLINE

 - TIMELINE db-deployment.yaml
 - File Saved 2 hrs
 - File Saved
 - configMap & secrets Basant k... 1 yr
 - #code Basant kumar Hota

JAVA PROJECTS

springboot-crud-k8s > ! db-deployment.yaml

```
1 # Define a 'Persistent Volume Claim'(PVC) for Mysql Storage, dynamically provisioned by cluster
2 apiVersion: v1
3 kind: PersistentVolumeClaim
4 metadata:
5   name: mysql-pv-claim # name of PVC essential for identifying the storage data
6   labels:
7     app: mysql
8     tier: database
9 spec:
10   accessModes:
11     - ReadWriteOnce #This specifies the mode of the claim that we are trying to create.
12   resources:
13     requests:
14       storage: 1Gi #This will tell kubernetes about the amount of space we are trying to claim.
15 ---
16 # Configure 'Deployment' of mysql server
17 apiVersion: apps/v1
18 kind: Deployment
19 metadata:
20   name: mysql
21   labels:
22     app: mysql
23     tier: database
24 spec:
25   selector: # mysql Pod Should contain same labels
26     matchLabels:
27       app: mysql
28       tier: database
29   strategy:
30     type: Recreate
31   template:
32     metadata:
```

Ln 45, Col 54 Spaces: 2 UTF-8 CRLF YAML Go Live 04:17 PM 27-04-2023

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EXPLORER

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 - springboot-crud-k8s
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OUTLINE

 - TIMELINE db-deployment.yaml
 - File Saved 2 hrs
 - File Saved
 - configMap & secrets Basant k... 1 yr
 - #code Basant kumar Hota

JAVA PROJECTS

springboot-crud-k8s > ! db-deployment.yaml

```
32 metadata:
33   labels: # Must match 'Service' and 'Deployment' selectors
34     app: mysql
35     tier: database
36 spec:
37   containers:
38     - image: mysql:5.7 # image from docker-hub
39     args:
40       - "--ignore-db-dir=lost+found" # Workaround for https://github.com/docker-library/mysql/issues/186
41     name: mysql
42     env:
43       - name: MYSQL_ROOT_PASSWORD
44         value: "1234"
45       - name: MYSQL_DATABASE # Setting Database Name from a 'ConfigMap'
46         value: javatechie
47     ports:
48       - containerPort: 3306
49         name: mysql
50     volumeMounts: # Mounting volume obtained from Persistent Volume Claim
51       - name: mysql-persistent-storage
52         mountPath: /var/lib/mysql #This is the path in the container on which the mounting will take place
53   volumes:
54     - name: mysql-persistent-storage # Obtaining 'volume' from PVC
55       persistentVolumeClaim:
56         claimName: mysql-pv-claim
57 ---
58 # Define a 'Service' To Expose mysql to Other Services
59 apiVersion: v1
60 kind: Service
61 metadata:
62   name: mysql # DNS name
63   labels:
```

Ln 45, Col 54 Spaces: 2 UTF-8 CRLF YAML Go Live

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MINIPROJ

springboot-crud-k8s

src

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java\com\javatechie\crud

controller

OrderController.java

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Order.java

repository

OrderRepository.java

service

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OUTLINE

TIMELINE db-deployment.yaml

File Saved 2 hrs

File Saved

configMap & secrets Basant k... 1 yr

#code Basant kumar Hota

JAVA PROJECTS

OrderRepository.java

OrderController.java

db-deployment.yaml

```
springboot-crud-k8s > ! db-deployment.yaml
49     name: mysql
50     volumeMounts:      # Mounting volume obtained from Persistent Volume Claim
51       - name: mysql-persistent-storage
52         mountPath: /var/lib/mysql #This is the path in the container on which the mounting will take place
53     volumes:
54       - name: mysql-persistent-storage # Obtaining 'volume' from PVC
55         persistentVolumeClaim:
56           claimName: mysql-pv-claim
57     ---
58     # Define a 'Service' To Expose mysql to Other Services
59     apiVersion: v1
60     kind: Service
61     metadata:
62       name: mysql # DNS name
63       labels:
64         app: mysql
65         tier: database
66     spec:
67       ports:
68         - port: 3306
69           targetPort: 3306
70       selector:      # mysql Pod Should contain same labels
71         app: mysql
72         tier: database
73       clusterIP: None # We Use DNS, Thus ClusterIP is not relevant
```

Ln 45, Col 54 Spaces: 2 UTF-8 CRLF YAML Go Live 04:17 PM 27-04-2023