

Command Prompt - mysql -uroot -p

Microsoft Windows [Version 10.0.19043.928]
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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)

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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)



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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> _
```



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```
service/mysql unchanged
The request is invalid: patch: Invalid value: "map[metadata:map[annotations:map[kubectl.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>kubectl 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>kubectl 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>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.

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



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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.
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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.
2023-04-27T08:00:04.201990Z 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
```



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```
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>
```



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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
=> => sha256:3af2ac94130765b73fc8f1b42ffc04f77996ed8210c297fcfa28ca880ff0a217 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
=> => sha256:9dae329d35093868ef75ac8b7c6eb407fa53abbcb3a264c218c2ec7bca716e6 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 sha256:9dae329d35093868ef75ac8b7c6eb407fa53abbcb3a264c218c2ec7bca716e6 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



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Command Prompt

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubect1 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-5769ddf5c-2b77s	1/1	Running	0	38s
springboot-crud-deployment-5769ddf5c-vdng7	1/1	Running	0	38s
springboot-crud-deployment-5769ddf5c-z5bks	1/1	Running	0	38s

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubect1 logs springboot-crud-deployment-5769ddf5c-2b77s

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      |_|_|_|

:: Spring Boot ::
                (v2.6.1)

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2023-04-27 09:05:36.443 INFO 1 --- [main] .j.c.SpringbootCrudK8sExampleApplication : Starting SpringbootCrudK8sExampleApplication v0.0.1-SNAPSHOT using Java
1.8.0_342 on springboot-crud-deployment-5769ddf5c-2b77s with PID 1 (/springboot-crud-k8s.jar started by root in /)
2023-04-27 09:05:36.446 INFO 1 --- [main] .j.c.SpringbootCrudK8sExampleApplication : No active profile set, falling back to default profiles: default
2023-04-27 09:05:52.000 INFO 1 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2023-04-27 09:05:52.418 INFO 1 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 312 ms. Found 1 JPA repository
interfaces.
2023-04-27 09:06:06.710 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2023-04-27 09:06:06.816 INFO 1 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-04-27 09:06:06.816 INFO 1 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.55]
2023-04-27 09:06:07.592 INFO 1 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-04-27 09:06:07.592 INFO 1 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 29156 ms
2023-04-27 09:06:11.224 INFO 1 --- [main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]
2023-04-27 09:06:11.605 INFO 1 --- [main] org.hibernate.Version : HHH000412: Hibernate ORM core version 5.6.1.Final
2023-04-27 09:06:13.932 INFO 1 --- [main] o.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
2023-04-27 09:06:14.845 INFO 1 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2023-04-27 09:06:17.233 INFO 1 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.

```

C:\Users\DELL\Desktop\miniproj\springboot-crud-k8s>kubect1 logs springboot-crud-deployment-5769ddf5c-z5bks

```

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:: Spring Boot ::
                (v2.6.1)

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Command Prompt - kubectl 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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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



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

```
mysql> use javatchie;
ERROR 1049 (42000): Unknown database 'javatchie'
mysql> use javatechie;
Database changed
mysql> show tables;
Empty set (0.00 sec)

mysql> use javatechie;
Database changed
mysql> show tables;
Empty set (0.00 sec)

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 4
Server version: 5.7.42 MySQL Community Server (GPL)

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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> show databases;
+-----+
| Database |
+-----+
| information_schema |
| javatechie |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.00 sec)

mysql> use javatechie;
Database changed
mysql> show tables;
Empty set (0.01 sec)
```



Type here to search



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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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File Edit Selection View Go Run ... miniproj

EXPLORER

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

springboot-crud-k8s > src > main > java > com > javatechie > crud > controller > OrderController.java > Language Support for Java(TM) by Red Hat > OrderController

```
5 import org.springframework.beans.factory.annotation.Autowired;
6 import org.springframework.web.bind.annotation.*;
7
8 import java.util.List;
9
10 @RestController
11 @RequestMapping("/orders")
12 public class OrderController {
13
14     @Autowired
15     private OrderService service;
16
17     @PostMapping
18     public Order addOrder(@RequestBody Order order){
19         return service.addOrder(order);
20     }
21
22     @GetMapping
23     public List<Order> getOrders(){
24         return service.getOrders();
25     }
26
27     @GetMapping("/{id}")
28     public Order getOrderById(@PathVariable int id){
29         return service.getOrderById(id);
30     }
31 }
32
```

Ln 21, Col 1 Spaces: 4 UTF-8 CRLF {} Java Go Live

Type here to search

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File Edit Selection View Go Run ... miniproj

EXPLORER

- MINIPROJ
 - springboot-crud-k8s
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 - app-deployment.yaml M
 - db-deployment.yaml M
 - Dockerfile M
 - OUTLINE
 - TIMELINE Order.java
 - #code Basant kumar Hota 1 yr
- JAVA PROJECTS

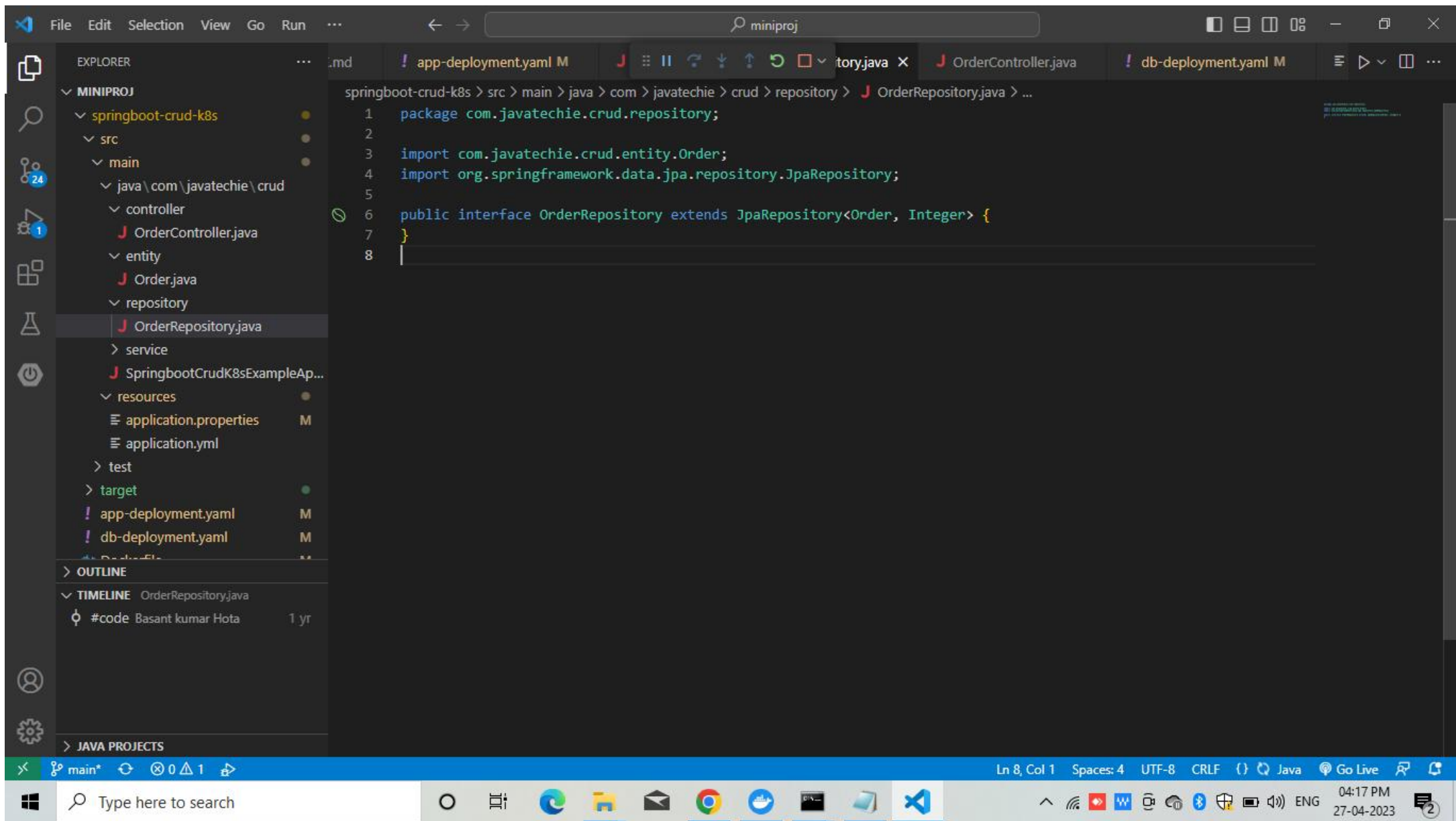
springboot-crud-k8s > src > main > java > com > javatechie > crud > entity > Order.java > Order > id

```
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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The screenshot shows an IDE interface with a dark theme. The Explorer panel on the left displays the project structure for 'MINIPROJ', including 'springboot-crud-k8s', 'src', 'main', 'java', 'com', 'javatechie', 'crud', 'controller', 'entity', 'repository', 'service', 'resources', 'test', and 'target'. The 'resources' folder is expanded, showing 'application.properties' and 'application.yml'. The 'application.properties' file is open in the editor, displaying the following configuration:

```
spring.datasource.url=jdbc:mysql://localhost:3306/mydatabase
spring.datasource.username=root
spring.datasource.password=1234
```

The status bar at the bottom indicates the current file is 'main*', the encoding is 'UTF-8', and the line ending is 'CRLF'. The Spring Boot Properties icon is also visible in the status bar.

miniproj

EXPLORER

- MINIPROJ
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 - app-deployment.yaml
 - db-deployment.yaml

OUTLINE

 - TIMELINE
 - application.yml
 - #code Basant kumar Hota 1 yr

JAVA PROJECTS

```
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

Type here to search

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File Edit Selection View Go Run ... miniproj

EXPLORER

- MINIPROJ
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 - ! app-deployment.yaml M
 - ! 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
 - JAVA PROJECTS

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:
21             # Setting Enviornmental Variables
22             - name: DB_HOST # Setting Database host address from configMap
23               value: mysql
24             - name: DB_NAME # Setting Database name from configMap
25               value: javatechie
26             - name: DB_USERNAME # Setting Database username from Secret
27               value: root
28             - name: DB_PASSWORD # Setting Database password from Secret
29               value: "1234"
30       ---
31
32  apiVersion: v1 # Kubernetes API version
```

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

Type here to search

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File Edit Selection View Go Run ... miniproj

EXPLORER

- MINIPROJ
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 - test
 - target
 - ! app-deployment.yaml M
 - ! 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
- JAVA PROJECTS

! app-deployment.yaml M

```
springboot-crud-k8s > ! app-deployment.yaml
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
33 kind: Service # Kubernetes resource kind we are creating
34 metadata: # Metadata of the resource kind we are creating
35   name: springboot-crud-svc
36 spec:
37   selector:
38     app: springboot-k8s-mysql
39   ports:
40     - protocol: "TCP"
41       port: 8080 # The port that the service is running on in the cluster
42       targetPort: 8080 # The port exposed by the service
43   type: NodePort # type of the service.
```

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

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miniproj

EXPLORER

- MINIPROJ
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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

```
1 # Define a 'Persistent Voulume 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: 16Gi #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

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miniproj

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EXPLORER

- MINIPROJ
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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

db-deployment.yaml

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

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

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← →

miniproj

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EXPLORER

MINIPROJ

springboot-crud-k8s

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java\com\javatechie\crud

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entity

Order.java

repository

OrderRepository.java

service

SpringbootCrudK8sExampleAp...

resources

application.properties

application.yml

test

target

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db-deployment.yaml

OUTLINE

TIMELINE db-deployment.yaml

File Saved 2 hrs

File Saved

configMap & secrets Basant k... 1 yr

#code Basant kumar Hota

JAVA PROJECTS

Order.java

OrderRepository.java

lication.java

OrderController.java

db-deployment.yaml

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

49 name: mysql

50 volumeMounts: # Mounting vouluem 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 'vloume' 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

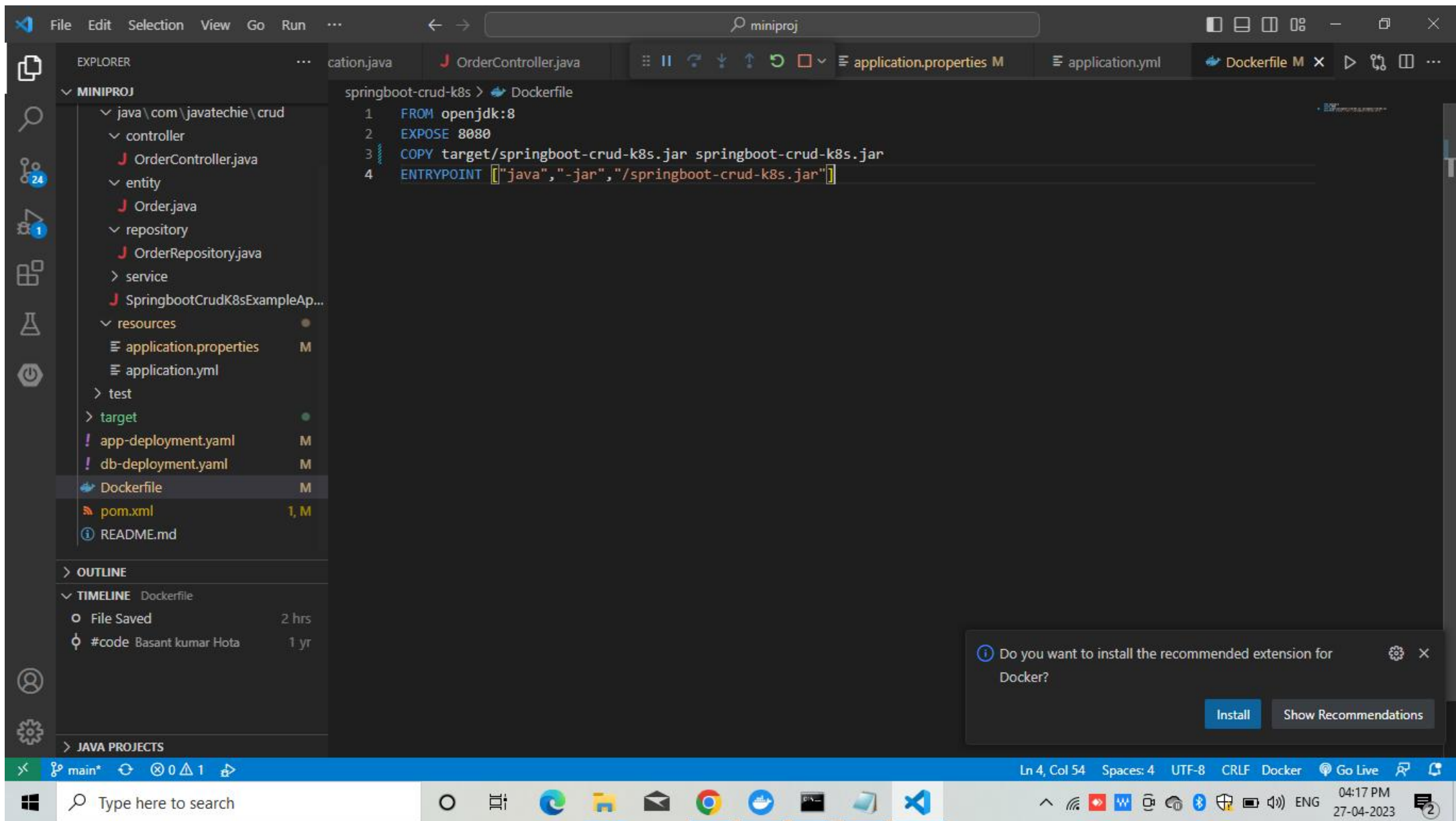
Go Live

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Type here to search





localhost:8080/orders x +

localhost:8080/orders

Gmail YouTube Maps WhatsApp Telegram Online Java Compiler Online SQL Editor

```
[{"id":1,"name":"watch","qty":2,"price":2000.0}]
```

Windows taskbar with search bar and system tray.

03:27 PM
02-05-2023

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

Your MySQL connection id is 2

Server version: 5.7.42 MySQL Community Server (GPL)

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

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 (0.76 sec)

mysql> use javatechie;

Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed

mysql> show tables;

Tables_in_javatechie
orders_tbl

1 row in set (0.00 sec)

mysql> select * from orders_tbl;

id	name	qty	price
1	watch	2	2000

1 row in set (0.00 sec)



Type here to search



04:40 PM
02-05-2023



Command Prompt - kubectl 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	3 (3m4s ago)	5d2h
nginx-deployment-95585b474-x4gkw	1/1	Running	6 (3m4s ago)	6d1h
springboot-crud-deployment-5769ddf5c-2b77s	1/1	Running	47 (170m ago)	5d
springboot-crud-deployment-5769ddf5c-vdng7	1/1	Running	47 (170m ago)	5d
springboot-crud-deployment-5769ddf5c-z5bks	1/1	Running	48 (171m ago)	5d

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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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 (0.76 sec)

mysql> use javatechie;

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

Database changed



Type here to search



04:40 PM
02-05-2023

