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| **Topic** | RDBMS - Oracle |
| **Document Name** | ORACLEDB-EX-02 |
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| **Document Difficulty Level** | | | |
| **Beginner** | **Junior** | **Senior** | **Expert** |
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# Document History

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| 05.03.2025 | Mennan Tekbir | 1.0 | Initial Draft |
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# RDBMS – Oracle

## Exercise ORACLEDB-EX-02:

**Definiton:** pull & run oracle express edition container from docker hub in your GCP or AWS cloud machine. ( You can use oracle oﬃcial repo- the link is provided below – ). For being more practical, you can run in your local machine first, and then, you can switch to cloud machine. Necesarry command are provided below.

**Note:** If you did not get a cloud machine previously, you may simply run it on your local machine.

**Docker Installation**

<https://blogs.oracle.com/connect/post/deliver-oracle-database-18c-express-edition-in-containers>

<https://github.com/oracle/docker-images/tree/main/OracleDatabase/SingleInstance>

git clone https://github.com/oracle/docker-images.git

cd docker-images/OracleDatabase/SingleInstance/dockerfiles

./buildContainerImage.sh -v 21.3.0 -x

docker run --name oraclexe -p 1521:1521 -p 5500:5500 -e ORACLE\_PWD=ORACLE oracle/database:21.3.0-xe

**Getting into Oracle SQL’s SQLPlus CLI**

docker exec -it oraclexe bash

bash-4.2# sqlplus sys/ORACLE@//localhost:1521/XE as sysdba

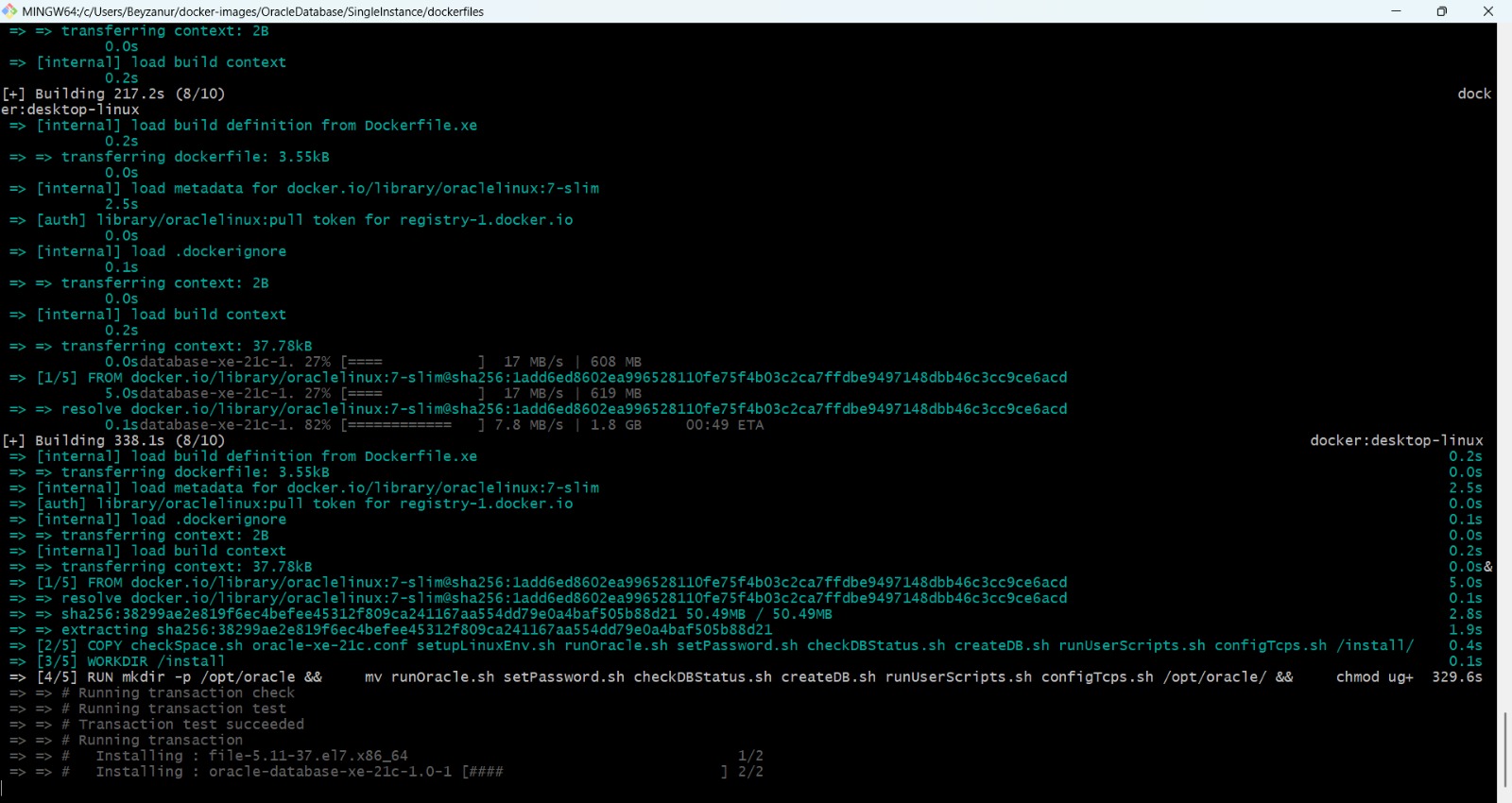
SQL> select name from v$database;

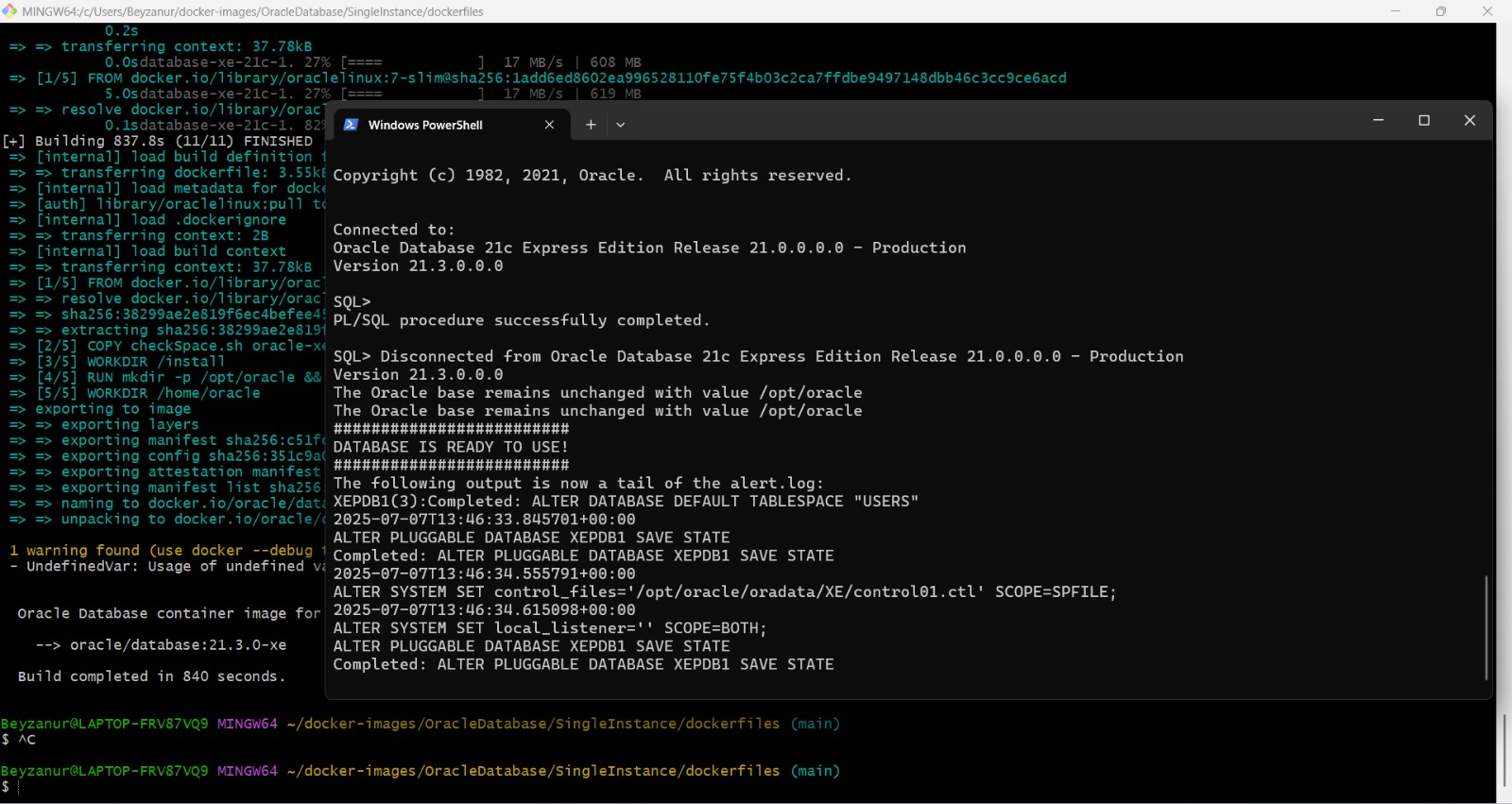
Please provide screenshots to show your work.

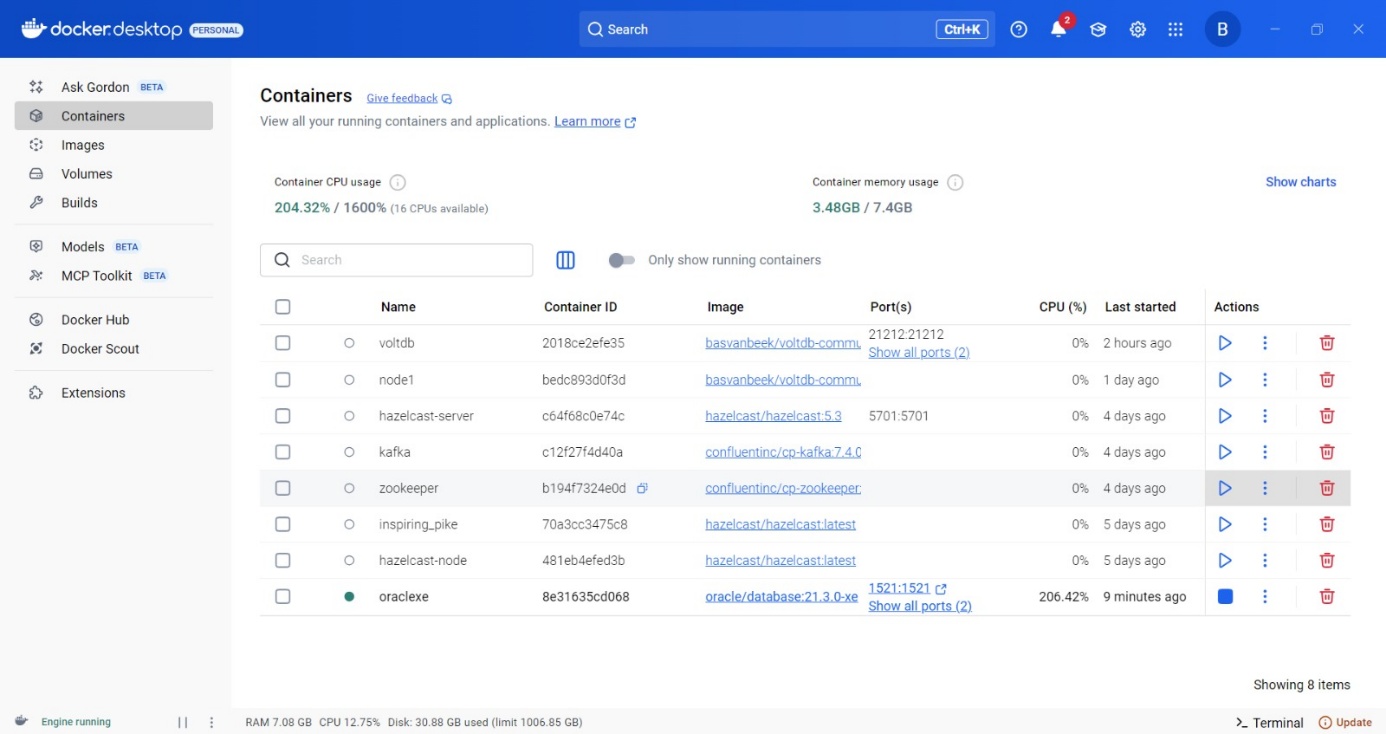
## ORACLEDB-EX-02 Solution:

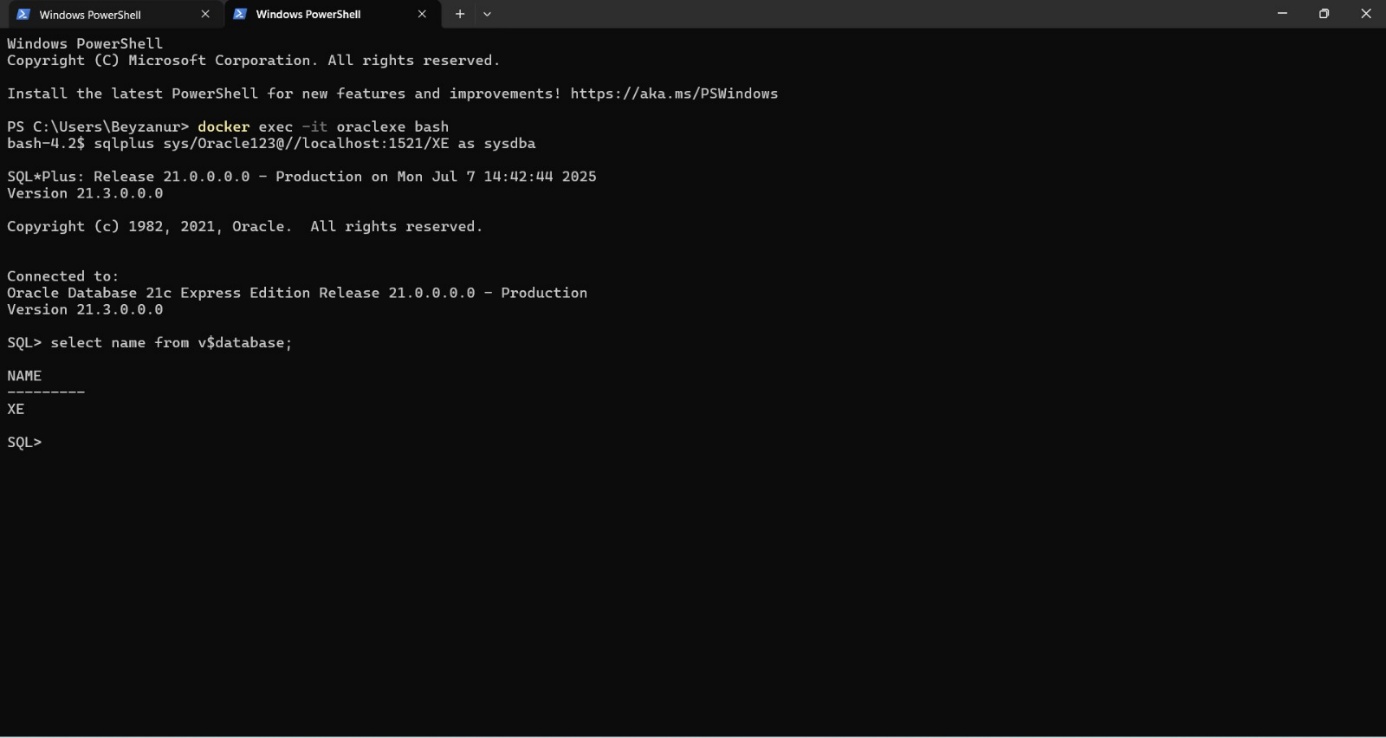
**Your Answer:**

You may provide screenshots here to show your work…









1. **Gereken Araçlar Kuruldu:**
   * Docker Desktop ve Git Bash bilgisayara yüklendi.
2. **Oracle XE İmajı Hazırlandı:**
   * Oracle’ın GitHub reposu klonlandı.
   * buildContainerImage.sh komutuyla oracle/database:21.3.0-xe imajı oluşturuldu.
3. **Oracle Konteyneri Başlatıldı:**

docker run --name oraclexe -p 1521:1521 -p 5500:5500 -e ORACLE\_PWD=Oracle123 oracle/database:21.3.0-xe

1. **SQLPlus ile Bağlantı Kuruldu:**

sqlplus sys/Oracle123@//localhost:1521/XE as sysdba

1. **Test Komutu Çalıştırıldı:**

select name from v$database;

-- Çıktı: XE

📌 Oracle XE Docker üzerinde başarıyla kuruldu ve çalıştırıldı.

**Required Tools Installed:**

Docker Desktop and Git Bash were installed on the computer.

**Oracle XE Image Built:**

Oracle’s GitHub repository was cloned.  
The Docker image oracle/database:21.3.0-xe was created using the buildContainerImage.sh script.

**Oracle Container Started:**

docker run --name oraclexe -p 1521:1521 -p 5500:5500 -e ORACLE\_PWD=Oracle123 oracle/database:21.3.0-xe

**Connected via SQLPlus:**

sqlplus sys/Oracle123@//localhost:1521/XE as sysdba

**Test Query Executed:**

select name from v$database;

-- Output: XE

📌 Oracle XE was successfully installed and run using Docker.