

RIGA TECHNICAL UNIVERSITY FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY INSTITUTE OF APPLIED COMPUTER SYSTEMS

Practical Assignment #1 "Database Management Systems" **Database Installation**

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1 Task

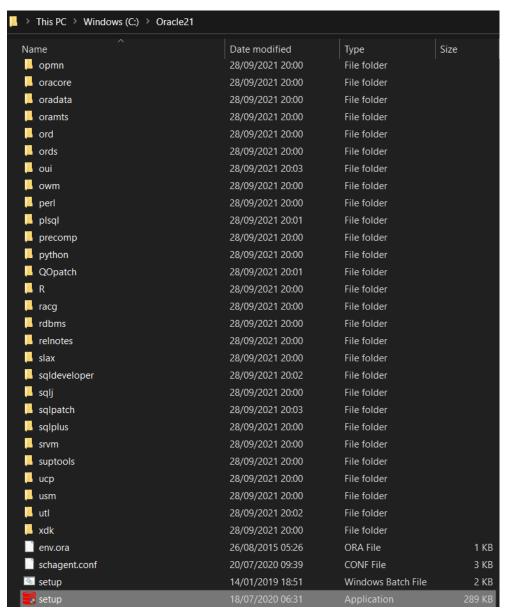
- 1. Install database;
- 2. Access database using SQLPlus with SYS user credentials;
- 3. Create additional user, grant access, connect with newly created user;
- 4. Install chosen ER modelling tool.
- Install sqlDeveloper, create connection, launch following commands: alter session set NLS_DATE_FORMAT='YYYY-MM-DD HH24:MI:SS'; select sysdate from dual;
- 6. Show results with screenshots. Upload 1 MS Word file named: DBMS_0_YourSurname.doc(x)

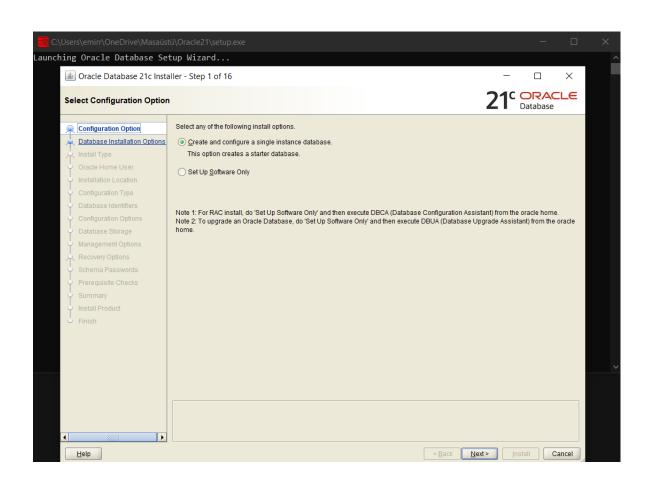
2 Main sections of practical work

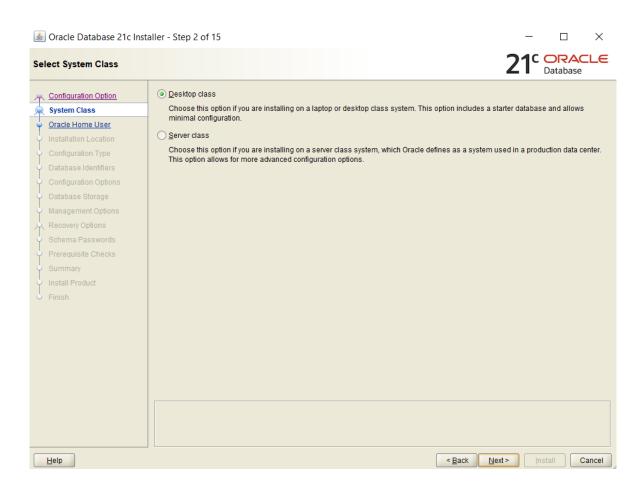
Show completion of each task using screenshots. Put screenshots in this section.

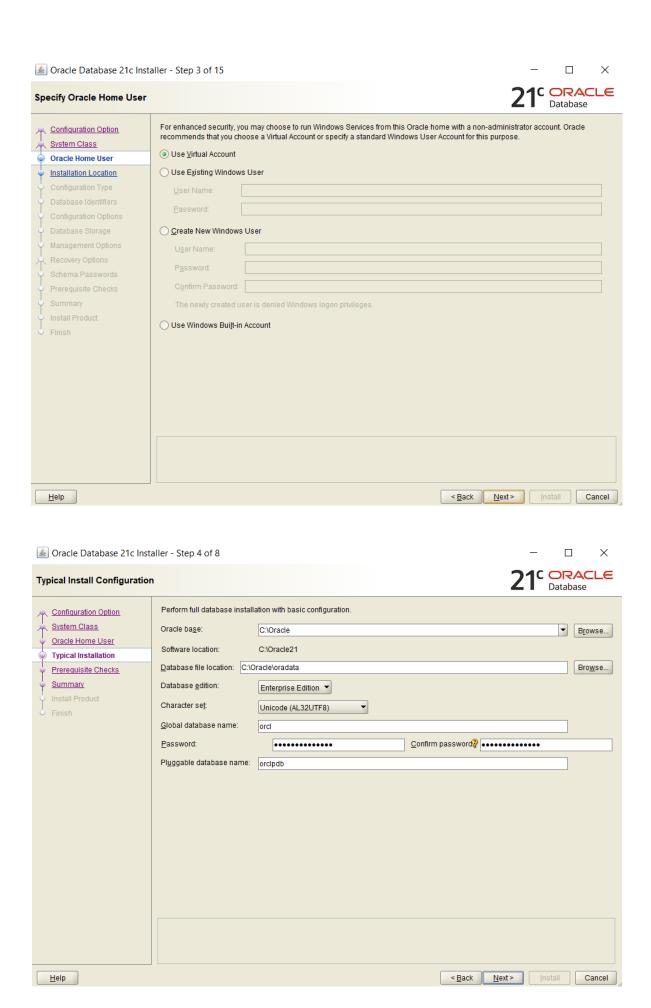
a. Install database

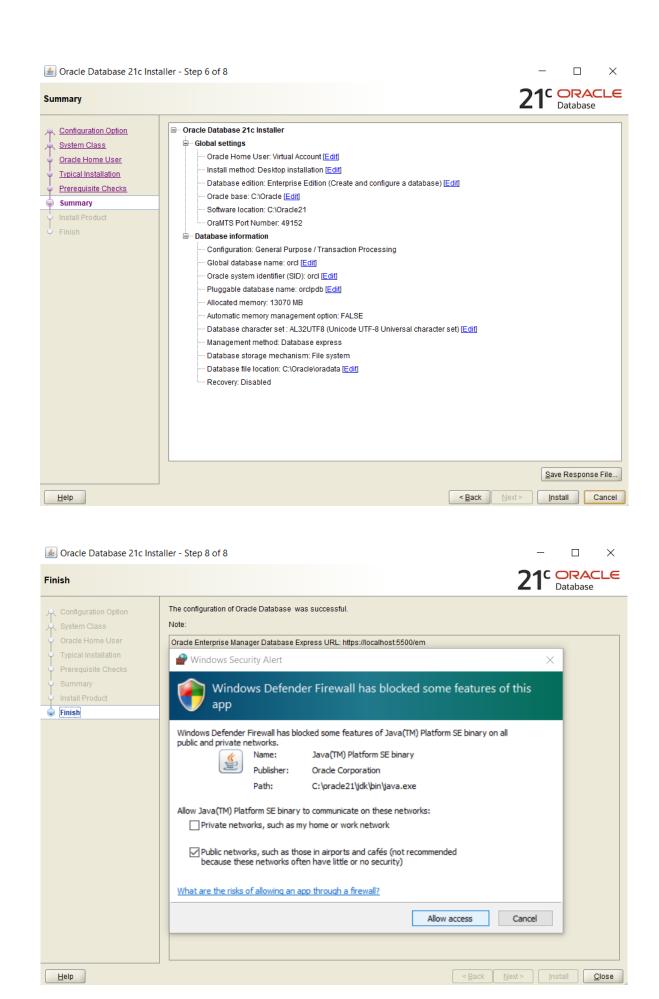




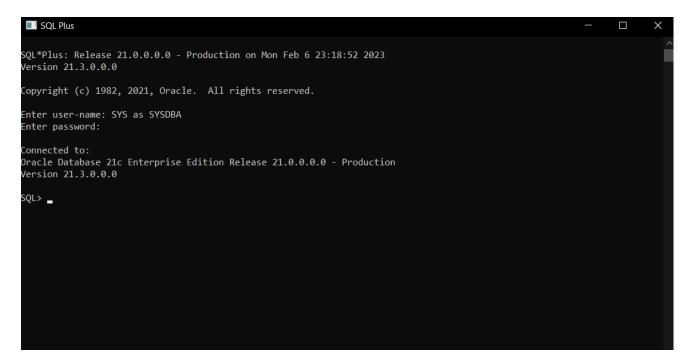






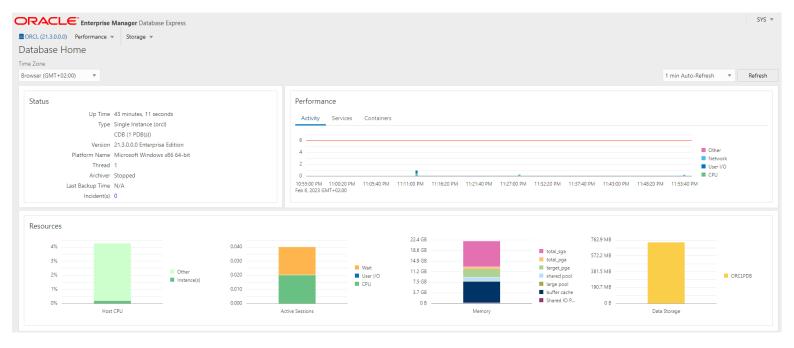


b. Access database using SQLPlus with SYS user credentials

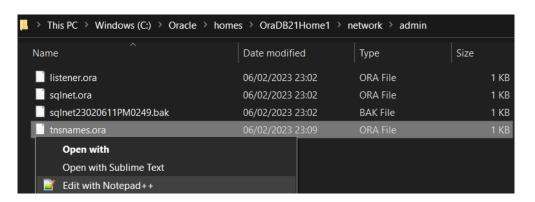


• Oracle Enterprise Manager Database Express





• tnsname.ora



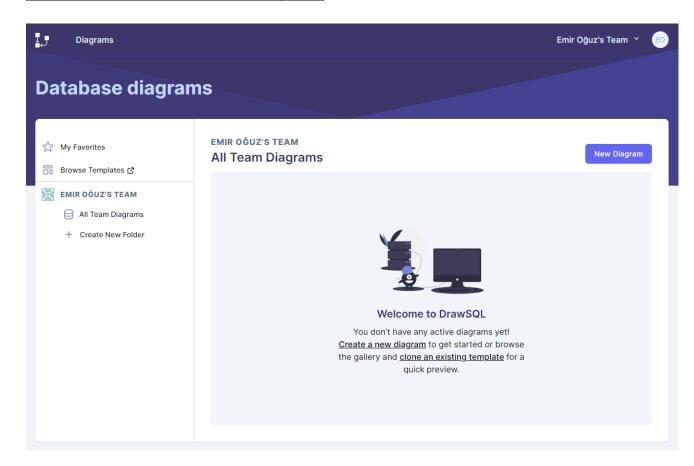
```
# tnsnames.ora Network Configuration File: C:\Oracle\homes\OraDB21Home1\NETWORK\ADMIN\tnsnames.ora
# Generated by Oracle configuration tools.
  (ADDRESS = (PROTOCOL = TCP) (HOST = heckon) (PORT = 1521))
ORACLR_CONNECTION_DATA =
  (DESCRIPTION =
    (ADDRESS LIST =
      (ADDRESS = (PROTOCOL = IPC) (KEY = EXTPROC1521))
    (CONNECT_DATA = (SID = CLRExtProc)
      (PRESENTATION = RO)
ORCL =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP) (HOST = heckon) (PORT = 1521))
    (CONNECT_DATA = (SERVER = DEDICATED)
      (SERVICE NAME = orcl)
ORCLPDB =
    (DESCRIPTION =
        (ADDRESS = (PROTOCOL = TCP) (HOST = localhost) (PORT = 1521))
        (CONNECT_DATA = (SERVER = DEDICATED)
             (SERVICE_NAME = orclpdb)
```

c. Create additional user, grant access, connect with newly created user

```
SQL Plus
SQL*Plus: Release 21.0.0.0.0 - Production on Tue Feb 7 00:09:14 2023
Version 21.3.0.0.0
Copyright (c) 1982, 2021, Oracle. All rights reserved.
Enter user-name: SYS as SYSDBA
Enter password:
Connected to:
Oracle Database 21c Enterprise Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0
SQL> alter session set "_ORACLE_SCRIPT" = true;
Session altered.
SQL> create user NEWUSERNAME identified by PASSWORD;
User created.
SQL> grant sysdba to NEWUSERNAME;
Grant succeeded.
SQL> grant create session to NEWUSERNAME;
Grant succeeded.
```

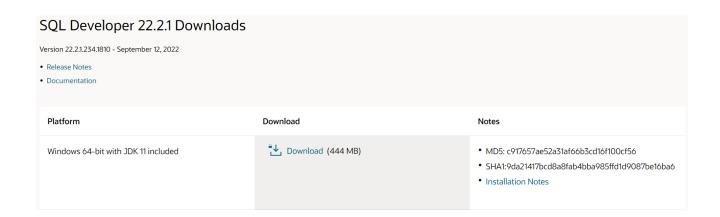
```
SQL Plus
SQL*Plus: Release 21.0.0.0.0 - Production on Tue Feb 7 00:39:59 2023
Version 21.3.0.0.0
Copyright (c) 1982, 2021, Oracle. All rights reserved.
Enter user-name: SYS as SYSDBA
Enter password:
Connected to:
Oracle Database 21c Enterprise Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0
SQL> disconnect
Disconnected from Oracle Database 21c Enterprise Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0
SQL> connect
Enter user-name: NEWUSERNAME
Enter password:
Connected.
SQL> _
```

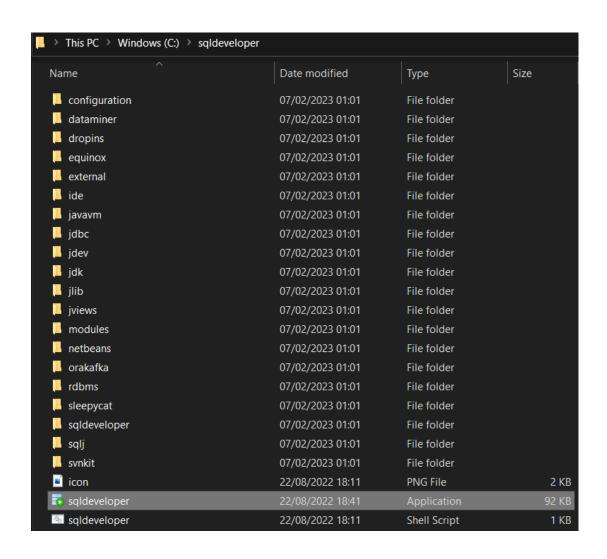
d. Install chosen ER modelling tool

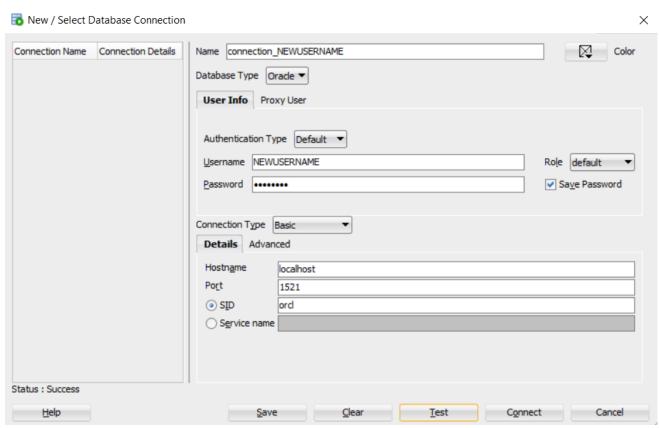


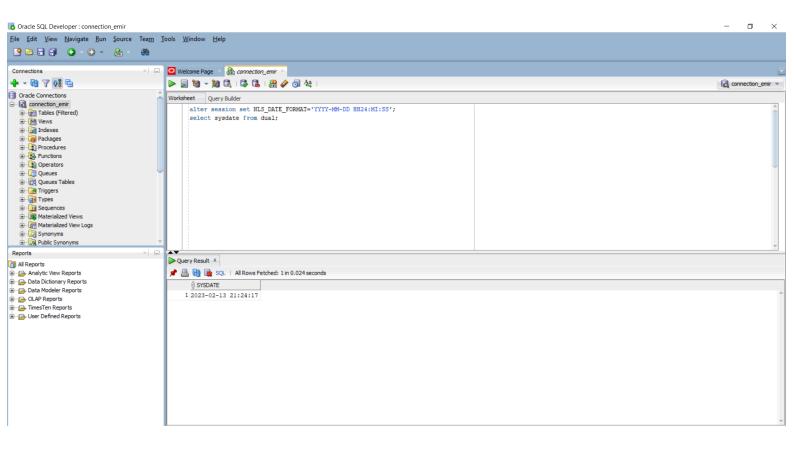
- I chose DrawSQL, which is one of the entity relationship diagram applications, and I created my account. I will use this app to create entity relationship diagrams.

e. Install sqlDeveloper, create connection, launch following commands: alter session set NLS_DATE_FORMAT='YYYY-MM-DD HH24:MI:SS'; select sysdate from dual;









3 Conclusion

In general, within the scope of this assignment, I downloaded Oracle Database, accessed the database with SYS user credential using SQLPlus, created an additional user and connected with the newly created user, opened an account in an entity relationship diagram application, installed SQL Developer and created a connection. As a result, I prepared for the Database Management Systems course with the installation steps we need to do in this assignment.

4 References

- Riga Technical University, Faculty of Computer Science and Information Technology, Institute of Applied Computer Systems, DSP201 – Database Management Systems, The Presentation of Lecture 1