Sri Lanka Institute of Information Technology



Assignment-2023

Database System Administration

IE2010

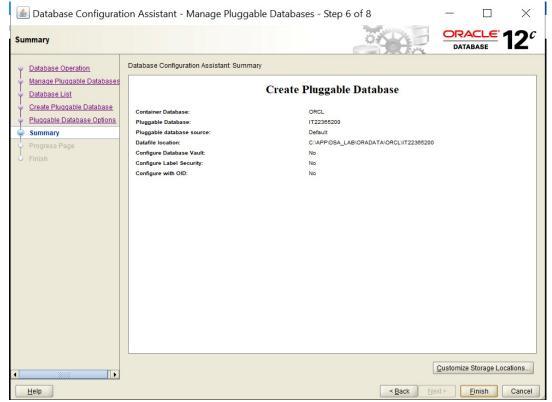
IT22365200 – RANGANA WIJESINGHE 12/02/2023

Part B

1. Log in to the Oracle server using sqlplus.

```
X
Administrator: Command Prompt - sqlplus / as sysdba
Microsoft Windows [Version 10.0.19045.3324]
(c) Microsoft Corporation. All rights reserved.
C:\Users\DSA_IT22365200>sqlplus / as sysdba
SQL*Plus: Release 12.1.0.2.0 Production on Sat Dec 2 14:31:12 2023
Copyright (c) 1982, 2014, Oracle. All rights reserved.
Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options
SQL> show pdbs;
   CON_ID CON_NAME
                                         OPEN MODE RESTRICTED
        2 PDB$SEED
                                          READ ONLY NO
        3 PDBORCL
                                          MOUNTED
        4 IT22365200
                                         READ WRITE NO
SQL> alter session set container=IT22365200;
Session altered.
```

2. Run DBCA utility provided by Oracle to create a new pluggable database.



Part C

1. Create a profile.

```
Administrator: Command Prompt - sqlplus / as sysdba
SQL> CREATE PROFILE Accountant1 LIMIT
 2 SESSIONS_PER_USER UNLIMITED
 3 CPU_PER_SESSION UNLIMITED
 4 CPU_PER_CALL 3000
 5 CONNECT_TIME 40
 6 logical_READS_PER_SESSION DEFAULT
 7 LOGICAL_READS_PER_CALL 1000
 8 PRIVATE SGA 25K
 9 COMPOSITE_LIMIT 5000000
10 FAILED_LOGIN_ATTEMPTS 3
11 PASSWORD_LIFE_TIME 180
12 PASSWORD_REUSE_TIME 30
13 PASSWORD REUSE MAX 7
14 PASSWORD_LOCK_TIME 1/24
15 PASSWORD_GRACE_TIME 7
16 PASSWORD_VERIFY_FUNCTION NULL;
Profile created.
```

2. Create default table space.

```
SQL> create tablespace Maleesha1TS
2 DATAFILE 'Maleesha1_perm.dat'
3 SIZE 100M
4 REUSE
5 AUTOEXTEND ON NEXT 10M MAXSIZE 200M;
Tablespace created.
```

3. Create temporary table space

```
SQL> create temporary tablespace Maleesha1TEMP
2 TEMPFILE 'Maleesha1_temp.dbf'
3 SIZE 10M
4 AUTOEXTEND ON;
Tablespace created.
```

4. Create role.

```
Administrator: Command Prompt - sqlplus / as sysdba

SQL> create role Accountant1;

Role created.

SQL> grant connect, resource, dba to Accountant1;

Grant succeeded.

SQL> grant create session to Accountant1;

Grant succeeded.

SQL> grant create table, create view, create any procedure, create session, create trigger, create synonym to Accountant1;

Grant succeeded.
```

5. Create user

```
SQL>
SQL> CREATE USER Maleesha1 IDENTIFIED BY Malee123

2 DEFAULT TABLESPACE Maleesha1TS

3 TEMPORARY TABLESPACE Maleesha1TEMP

4 QUOTA 50M ON Maleesha1TS

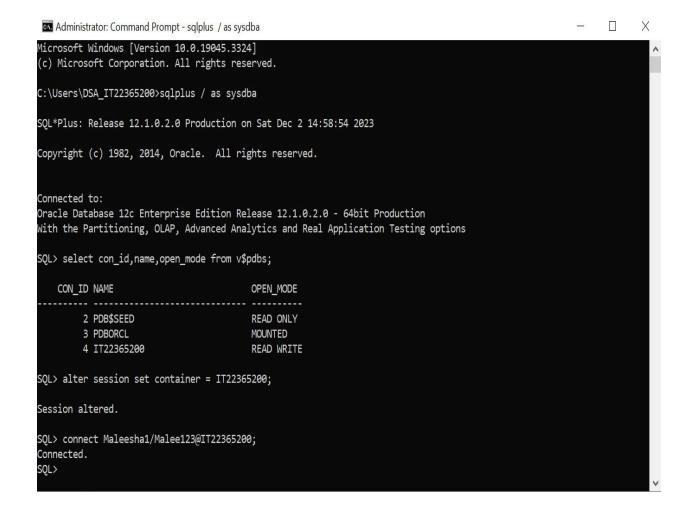
5 PROFILE Accountant1;

User created.

SQL> grant Accountant1 to Maleesha1;

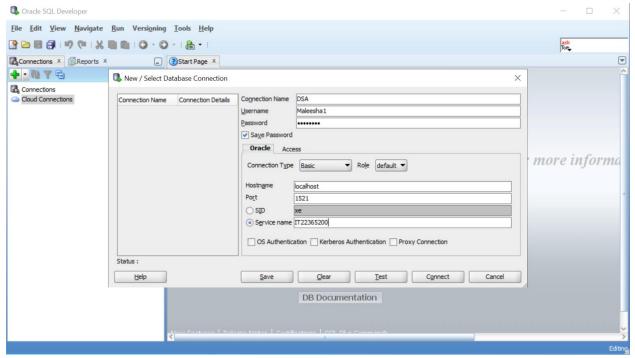
Grant succeeded.
```

6. Connect to the user account.

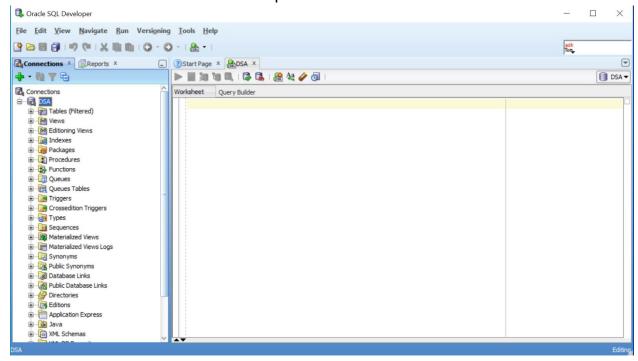


Part D

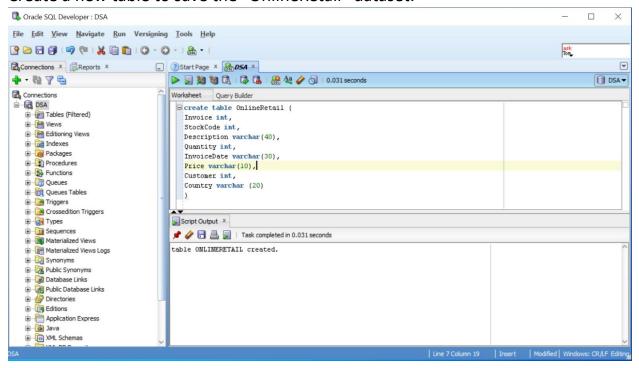
1. Create Database connection in SQL developer.



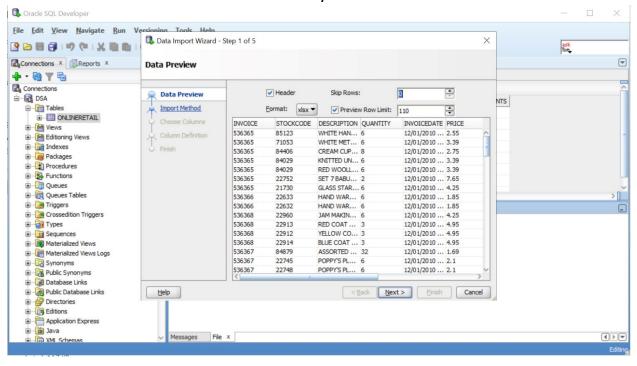
2. Check whether the user created in part C is available in the users list



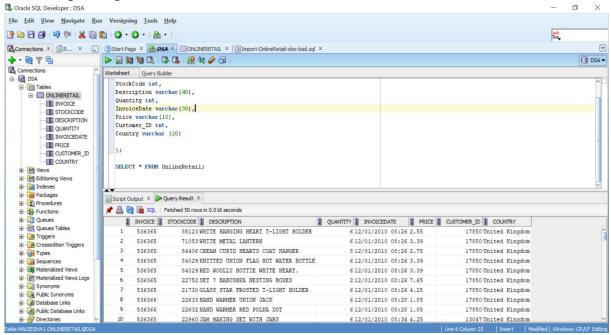
3. Create a new table to save the "OnlineRetail" dataset.



4. Load the OnlineRetail data into the newly created table.



4.1 After importing Data file.



5. Create an index to the table based on the "Price" column in the data sheet.

