

IE2080 Database Systems Administration 2nd Year 1st Semester

Assignment

Submitted to
Sri Lanka Institute of Information Technology

BSc (Hons) in Information Technology - Computer Systems & Network

Engineering

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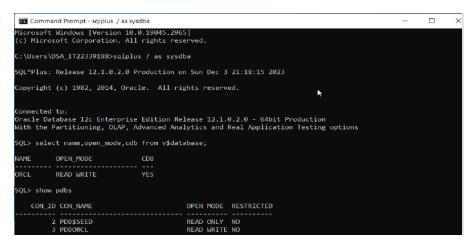
05th December 2023

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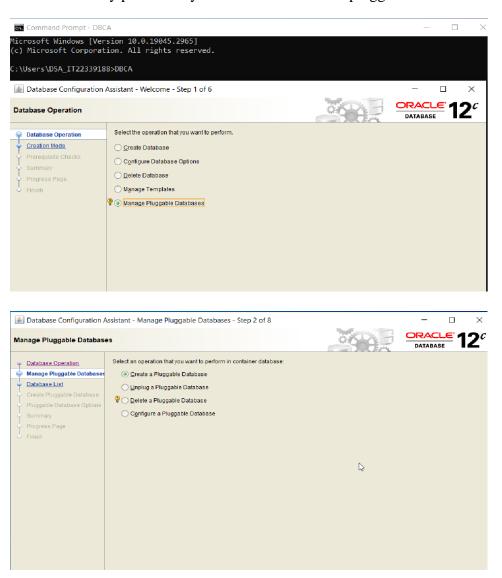
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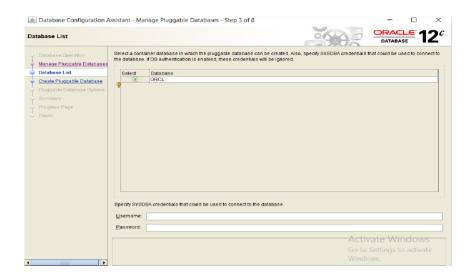
B) Create a PDB by using Database Configuration Assistant

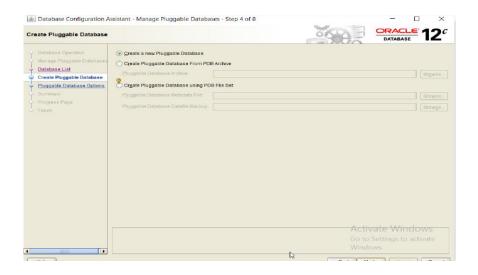
1. Log in to Oracle server using sqlplus and Check the PDB

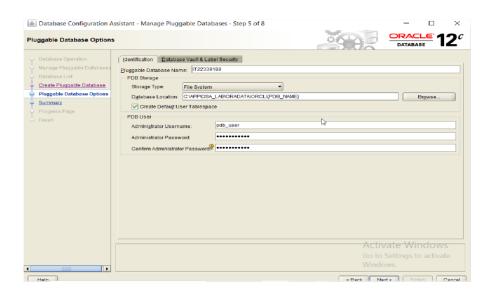


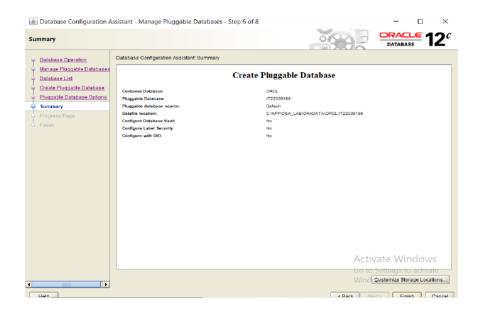
2. Run DBCA utility provided by Oracle to create a new pluggable database













C) Provide user administration and security

1) Create Profile

```
Command Prompt - sqiplus / as sysdba

SQL> Alter session set container = IT22339188;

Session altered.

SQL> create profile Accountant limit

SQL> create profile Accountant limit

SESSIONS_PER_USER UNLIMITED

CPU_PER_SESSION UNLIMITED

CPU_PER_SESSION UNLIMITED

CONNECT_ITME 40

CONNECT_ITME 40

COGICAL_READS_PER_SESSION DEFAULT

LOGICAL_READS_PER_CALL 1000

PRIVATE_SGA 25K

COMPOSITE_LIMIT 5000000

FAILED_LOGIN_ATTEMPTS 3

PASSWORD_LIFE_TIME 180

PASSWORD_LIFE_TIME 180

PASSWORD_REUSE_TIME 30

PASSWORD_REUSE_TIME 30

PASSWORD_LOCK_TIME 1/24

PASSWORD_LOCK_TIME 1/24

PASSWORD_LOCK_TIME 7

PASSWORD_VERIFY_FUNCTION NULL

Profile created.
```

2) Create default table space

```
Command Prompt - sqiplus / as sysdba — — — X

SQL> CREATE TABLESPACE DamithaTS

2 DATAFILE 'Damitha_perm.dat'

3 SIZE 100M

4 REUSE

5 AUTOEXTEND ON NEXT 10M MAXSIZE 200M

6 ;

Tablespace created.

SQL>
```

3) Create temporary table space

```
Command Prompt - sqlplus / as sysdba

SQL> CREATE TEMPORARY TABLESPACE DamithaTEMP
2 TEMPFILE 'Damitha_temp.dpf'
3 SIZE 10M
4 AUTOEXTEND ON
5 ;
Tablespace created.

SQL> ____
```

4) Create role

```
SQL> CREATE ROLE Accountant;

Role created.

SQL> GRANT CONNECT, RESOURCE, DBA TO Accountant;

Grant succeeded.

SQL> GRANT CREATE SESSION TO Accountant;

Grant succeeded.

SQL> GRANT CREATE SESSION TO Accountant;

Grant succeeded.

SQL> GRANT CREATE TABLE, CREATE VIEW, CREATE ANY PROCEDURE, CREATE SESSION, CREATE TRIGGER, CREATE SYNONYM TO Accountant;

Grant succeeded.
```

5) Create user

```
Command Prompt - sqlplus / as sysdba — X

SQL > CREATE USER Damitha IDENTIFIED BY dami123

2 DEFAULT TABLESPACE DamithaTS

3 TEMPORARY TABLESPACE DamithaTEMP

4 QUOTA 50M ON DamithaTS

5 PROFILE Accountant

6 ;

User created.

SQL > GRANT Accountant TO Damitha;

Grant succeeded.
```

6) Connect to user account

```
Command Prompt - sqlplus Damitha/dami123@IT22339188 — X

Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DSA_IT22339188>sqlplus Damitha/dami123@IT22339188

SQL*Plus: Release 12.1.0.2.0 Production on Mon Dec 4 17:15:13 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

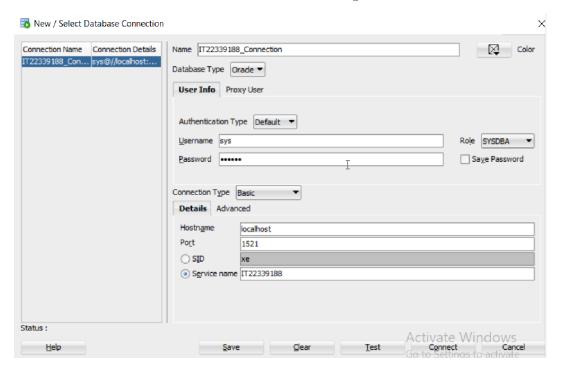
SQL> select user from dual;

USER

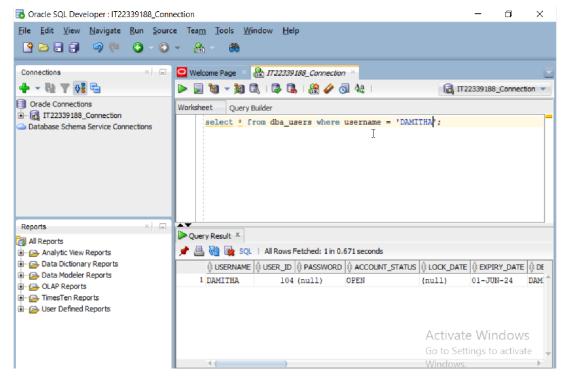
DAMITHA
```

D) Managing Schema Objects

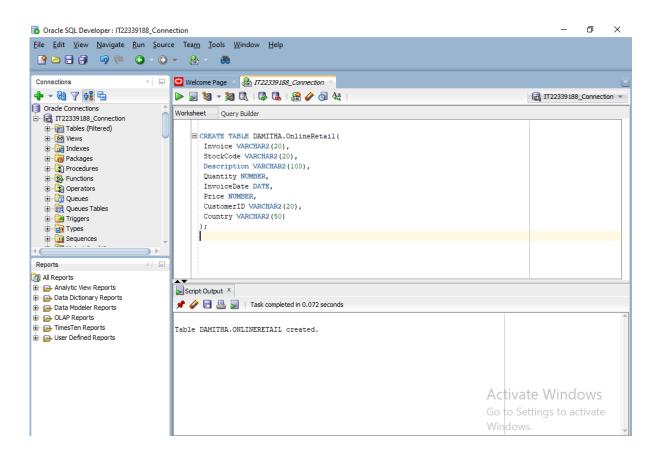
1) Create Database connection in SQL developer



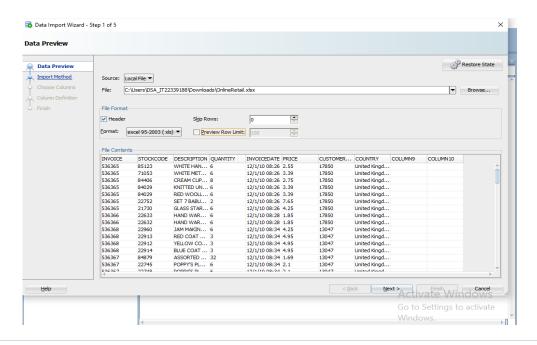
2) Check whether the user created in part C is available in the user's list.

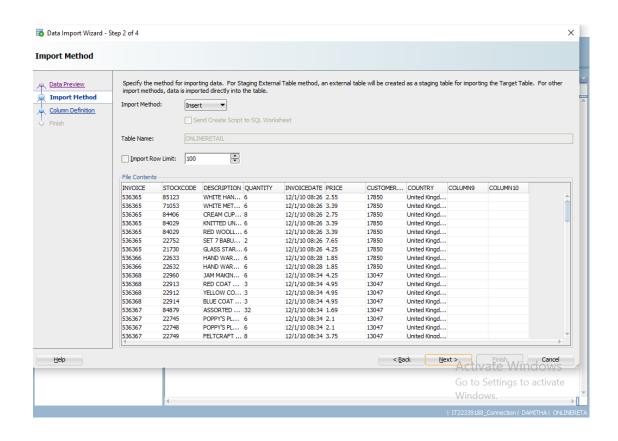


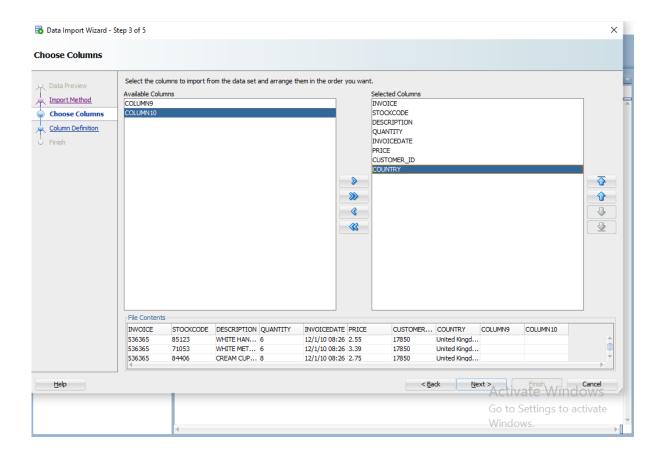
3) Create a new table.

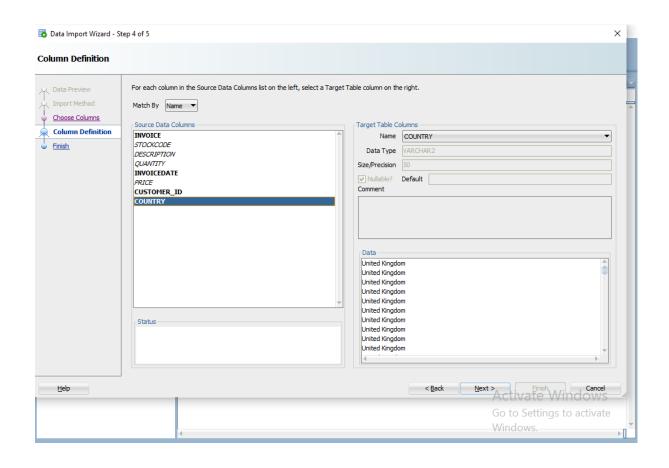


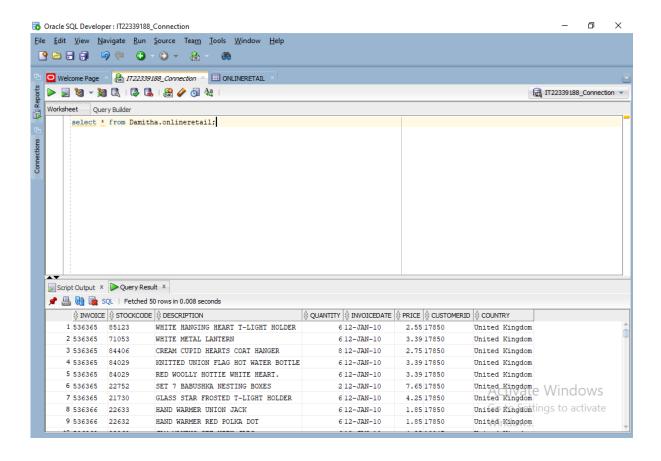
4) Load the OnlineRetail data into the newly created table.











5) Create an index.

