Preparation

Changing the Port of CDB

connect to System Database

```
sqlplus / as sysdba
```

```
**Administrator Command Rompes supplies / asygotha

corvice, names specifies the service name of the database you unit to access.

Exception Connect to database using Easy Connect and the Service name is ORCL.

The MOLDO option starts SQP-Tips without connecting to a detabase.

The MOLDO option starts SQP-Tips without connecting to a detabase.

The MOLDO option starts SQP-Tips without connecting to a detabase.

**Start > 15: #0.000.** [generator / cont.] [generator / cont.]

The MOLDO option Sqc. first the value for Session ddition.

**Start > 15: #0.000.** [generator / cont.] [generator / cont.]

The MOLDO option spc. first the value for Session ddition.

**Start > 15: #0.000.** [generator / cont.]

The MOLDO option spc. first the value for Session ddition.

**Start > 15: #0.000.** [generator / cont.]

The MOLDO option spc. first the value for Session ddition.

**Start > 15: #0.000.** [generator / cont.]

The MOLDO option spc. first the value for Session ddition.

**Start > 15: #0.000.** [generator / cont.]

The MOLDO option option option option spc. first spc.
```

get Database details

```
select name , cdb,con_id from v$database;
```

check instance [CDB]

```
select instance_name, Status, con_id from v$instance;
```

Get port #getport

```
select dbms_xdb_config.gethttpsport() from dual;
```

Access CDB and Change port

```
alter session set container = CDB$ROOT;
exec DBMS_XDB_CONFIG.sethttpsport(5501);
```

```
Administrator: Windows PowerShell
                                                                                                                 Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\Hunter> <mark>sqlplus</mark> / as sysdba
SQL*Plus: Release 12.1.0.2.0 Production on Thu Nov 30 10:27:20 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> alter session set container = CDB$ROOT;
Session altered.
SQL> exec DBMS_XDB_CONFIG.sethttpsport(5501);
PL/SQL procedure successfully completed.
SQL> select dbms_xdb_config.gethttpsport() from dual;
DBMS_XDB_CONFIG.GETHTTPSPORT()
SQL> _
```

Changing PDB Access port

Display available PDBs

```
select con_id, name, open_mode from v$pdbs;
```

```
alter pluggable database pdborcl open;
```

Access PDB and Change access port

```
alter session set container = PDBORCL;
exec dbms_xdb_config.sethttpsport(5505)
exec DBMS_XDB_CONFIG.sethttpsport(5502);
```

check if Altered port is correct with #getport

```
SQL> alter pluggable database PDBORCL open;

Pluggable database altered.

SQL> select dbms_xdb_config.gethttpsport() from dual;

DBMS_XDB_CONFIG.GETHTTPSPORT()

0

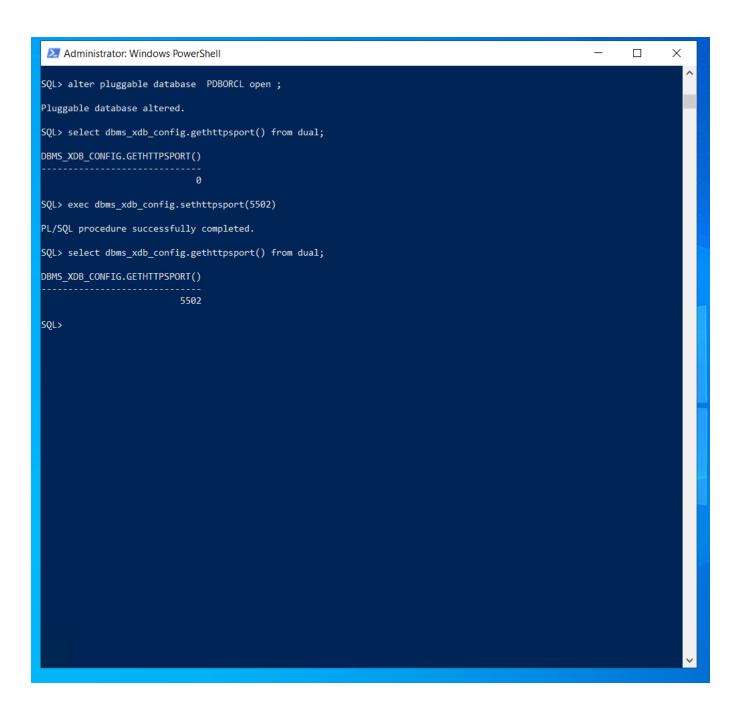
SQL> exec dbms_xdb_config.sethttpsport(5502)

PL/SQL procedure successfully completed.

SQL> select dbms_xdb_config.gethttpsport() from dual;

DBMS_XDB_CONFIG.GETHTTPSPORT()

5502
```



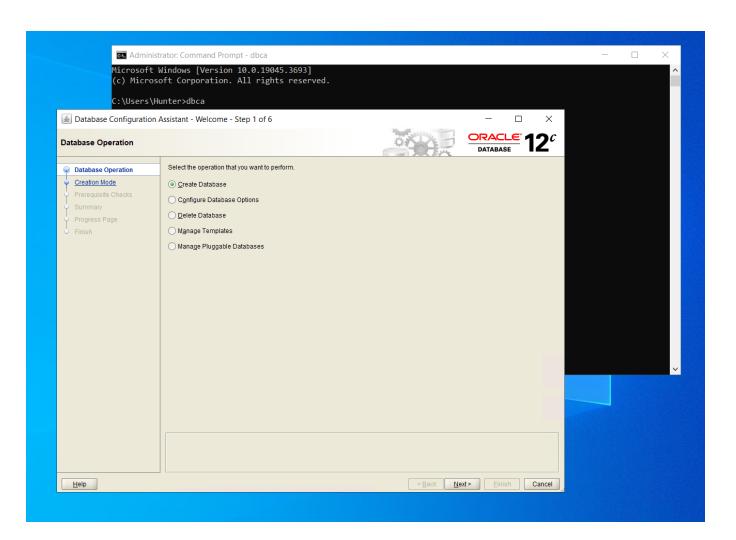
```
Select Administrator: Windows PowerShell
                                                                                                               \times
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\Hunter> <mark>sqlplus</mark> / as sysdba
SQL*Plus: Release 12.1.0.2.0 Production on Thu Nov 30 10:27:20 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> alter session set container = CDB$ROOT;
Session altered.
SQL> exec DBMS_XDB_CONFIG.sethttpsport(5501);
PL/SQL procedure successfully completed.
SQL> select dbms_xdb_config.gethttpsport() from dual;
DBMS_XDB_CONFIG.GETHTTPSPORT()
                          5501
SQL> select con_id, name, open_mode from v$pdbs;
   CON_ID NAME
                                          OPEN_MODE
                                          READ ONLY
        2 PDB$SEED
         3 PDBORCL
                                          MOUNTED
SQL> alter session set container = PDBORCL;
Session altered.
```

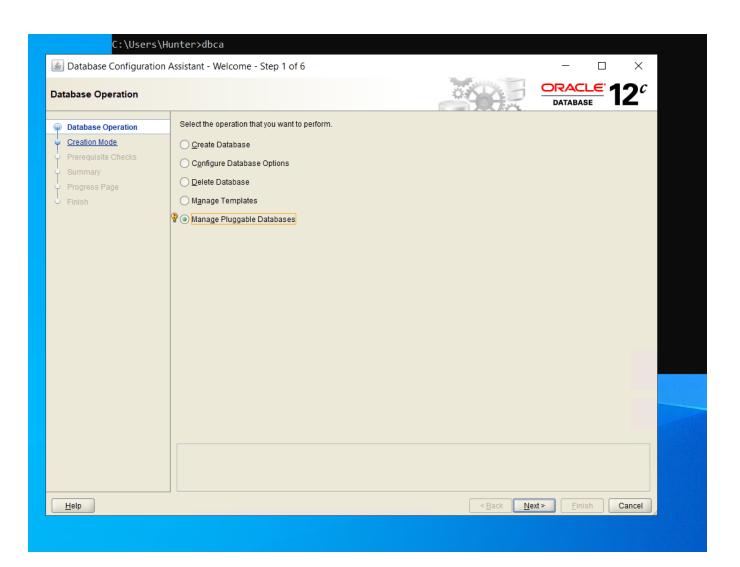
User Creation

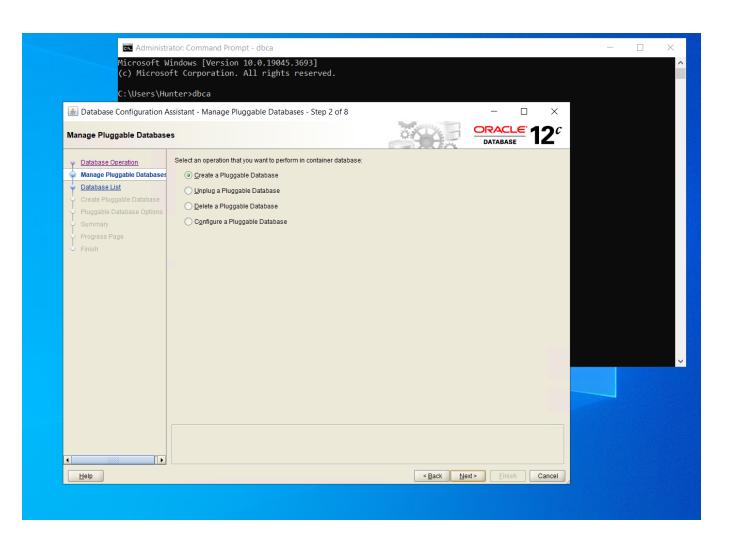
Create PDB

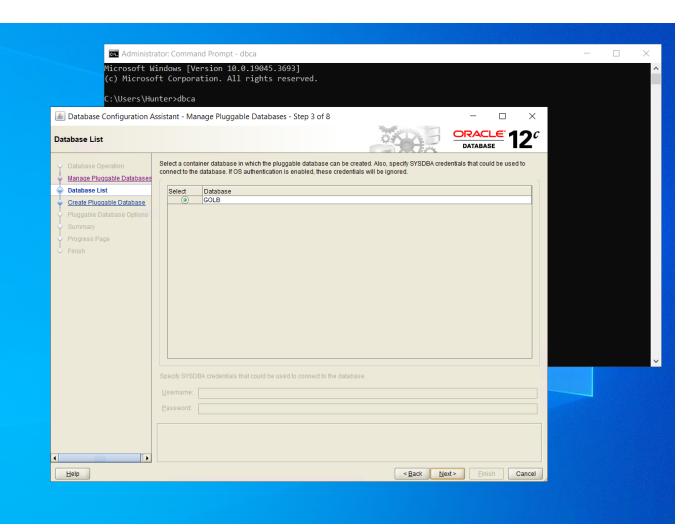
dbca

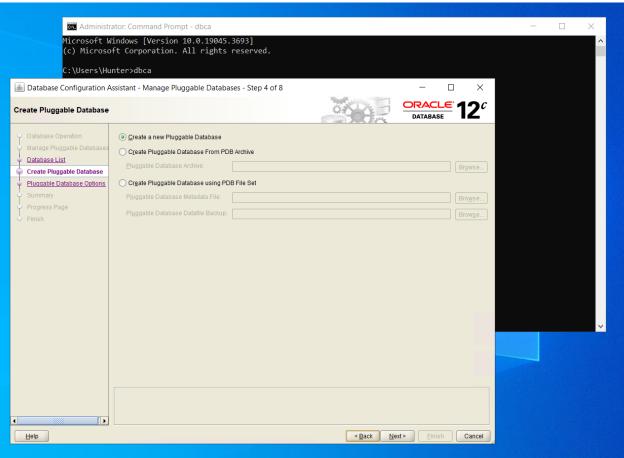
PDB NAme: IT22169730

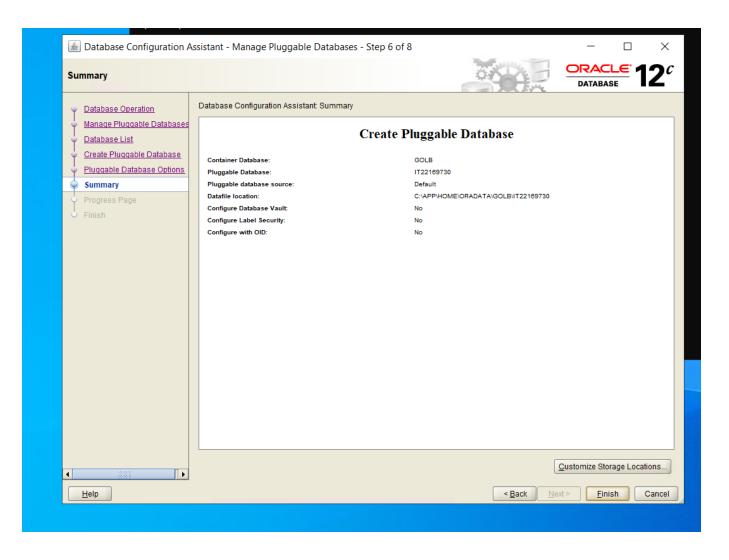


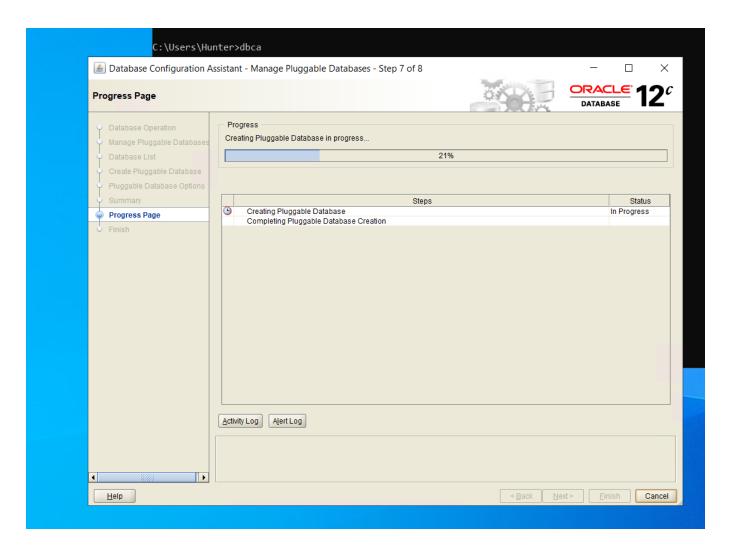


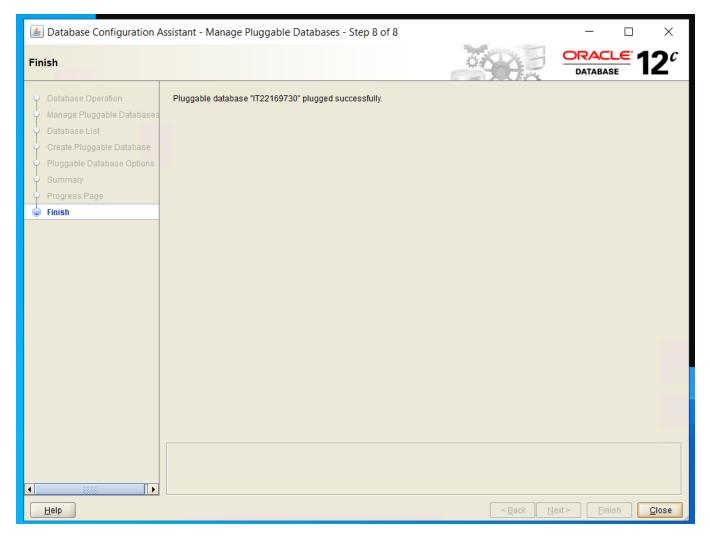












Username: admin Password: Content1@

Alt to PDB

Create a profile Accountant

```
alter pluggable database IT22169730 open;
alter session set container = IT22169730;
exec dbms_xdb_config.sethttpsport(5502)
select dbms_xdb_config.gethttpsport() from dual;
```

```
Administrator: Windows PowerShell

SQL> alter session set container = IT22169730;

Session altered.

SQL> exec dbms_xdb_config.sethttpsport(5502)

PL/SQL procedure successfully completed.

SQL> select dbms_xdb_config.gethttpsport() from dual;

DBMS_XDB_CONFIG.GETHTTPSPORT()

5502
```

```
CREATE PROFILE Accountant LIMIT
  SESSIONS_PER_USER UNLIMITED
  CPU_PER_SESSION UNLIMITED
  CPU_PER_CALL 3000
  CONNECT_TIME 40
  LOGICAL_READS_PER_SESSION DEFAULT
  LOGICAL_READS_PER_CALL 1000
  PRIVATE SGA 25K
  COMPOSITE_LIMIT 5000000
  FAILED_LOGIN_ATTEMPTS 3
  PASSWORD_LIFE_TIME 180
  PASSWORD_REUSE_TIME 30
  PASSWORD_REUSE_MAX 7
  PASSWORD_LOCK_TIME 1/24
  PASSWORD_GRACE_TIME 7
  PASSWORD_VERIFY_FUNCTION NULL;
```

```
5502

SQL> CREATE PROFILE Accountant LIMIT SESSIONS_PER_USER UNLIMITED CPU_PER_SESSION UNLIMITED CPU_PER_CALL 3000 CONNECT TIME 40 LOGICAL_READS_PER_SESSION DEFAULT LOGICAL_READS_PER_CALL 1000 PRIVATE_SGA 25K COMPOSITE_LIMIT 50000000 FAIL ED_LOGIN_ATTEMPTS 3 PASSWORD_LIFE_TIME 180 PASSWORD_REUSE_TIME 30 PASSWORD_REUSE_MAX 7 PASSWORD_LOCK_TIME 1/24 PASS WORD_GRACE_TIME 7 PASSWORD_VERIFY_FUNCTION NULL;

Profile created.

SQL> _
```

Default Table Space

```
CREATE TABLESPACE ThimiraTS

DATAFILE 'Thimira_perm.dat' SIZE 100M

REUSE
```

```
AUTOEXTEND ON
NEXT 10M MAXSIZE 200M;
```

```
SQL> CREATE TABLESPACE ThimiraTS DATAFILE 'Thimira_perm.dat' SIZE 100M REUSE AUTOEXTEND ON NEXT 10M MAXSIZE 200M;
Tablespace created.
```

Create Temporary Table Space

```
CREATE TEMPORARY TABLESPACE ThimiraTEMP

TEMPFILE 'Thimra_temp.dbf' SIZE 10M

AUTOEXTEND ON;
```

```
SQL> CREATE TEMPORARY TABLESPACE ThimiraTEMP TEMPFILE 'Thimra_temp.dbf' SIZE 10M AUTOEXTEND ON;
Tablespace created.
```

Create Role

```
CREATE ROLE Accountant;
GRANT CONNECT, RESOURCE, DBA TO Accountant;
GRANT CREATE SESSION TO Accountant;
GRANT CREATE TABLE, CREATE VIEW, CREATE PROCEDURE, CREATE SESSION, CREATE TRIGGER,
CREATE SYNONYM TO Accountant;
```

```
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 TABLE, VIEW, PROCEDURE, SESSION, TRIGGER, SYNONYM TO Accountant;

GRANT CREATE TABLE, VIEW, PROCEDURE, SESSION, TRIGGER, SYNONYM TO Accountant

*

ERROR at line 1:

ORA-01919: role 'PROCEDURE' does not exist

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

Grant succeeded.
```

Create User

```
CREATE USER Thimira IDENTIFIED BY 200129203657

DEFAULT TABLESPACE ThimiraTS

TEMPORARY TABLESPACE ThimiraTEMP

QUOTA 50M ON ThimiraTS

PROFILE Accountant;

ALTER USER Thimira DEFAULT ROLE ALL;
```

```
SQL> CREATE USER Thimira IDENTIFIED BY 200129203657 DEFAULT TABLESPACE ThimiraTS TEMPORARY TABLESPACE ThimiraTEMP QUO
TA 50M ON ThimiraTS PROFILE Accountant;
User created.
SQL> ALTER USER Thimira DEFAULT ROLE ALL;
User altered.
```

Listener configuration

It is necessary to configure the listner and unlock the user in order for us to connect to the pdb using sql plus

```
sqlplus / as sysdba
select name ,con_id from v$pdbs;
select name as "Service" from v$active_services where con_id=4;
```

Service name = it22169730

Listerner configuration

```
IT22169730 =
(DESCRIPTION =
(ADDRESS = (PROTOCOL = TCP)(HOST = localhost)(PORT = 1521))
(CONNECT_DATA =
(SERVER = DEDICATED)
(SERVICE_NAME = it22169730)
)
```

Stop listner

```
lsnrctl stop
```

```
SQL> alter user Thimira account unlock;
User altered.

SQL> alter user admin account unlock;
User altered.
```

```
SQL> select name as "Service" from v$active_services where con_id=4;
Service
it22169730
SQL> alter session set container = it22169730;
Session altered.
SQL> select name , open_mode from v$pdbs;
MAN
                               OPEN MODE
IT22169730
                               READ WRITE
SQL> alter user Thimira identified by 200129203657 account unlock;
alter user Thimira identified by 200129203657 account unlock
ERROR at line 1:
DRA-28007: the password cannot be reused
SQL> alter user Thimira account unlock;
Jser altered.
SQL> .
```

Start Listener

```
lsnrctl start
```

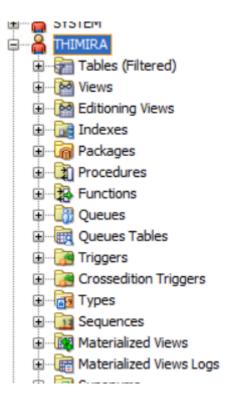
Managing Schema Objects with SQL Developer

Create Database connection in SQL developer.[Use new PDB]

check SID

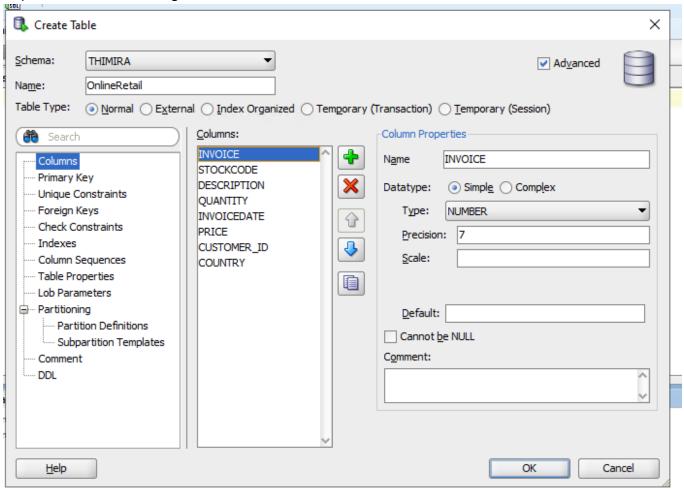
New Connections in SQL PLUS

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



Create a new table to save the "OnlineRetail" dataset given in the courseweb.

Import data from existing xI sheet



Create the new table under the user you have created in Part C above.

a. Table/ schema name: OnlineRetail

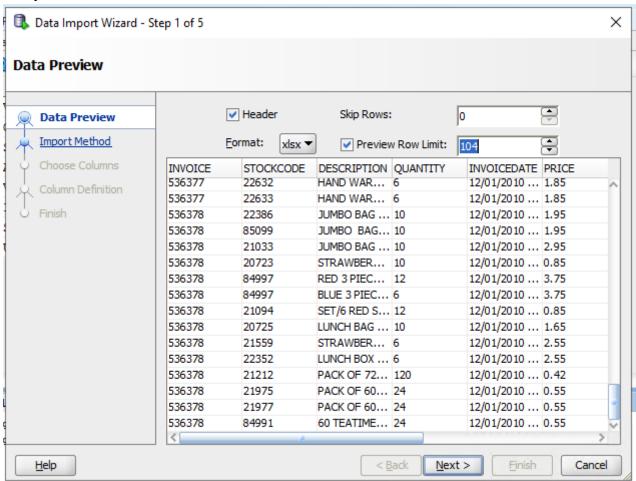
A	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 IN	VOICE	NUMBER(7,0)	Yes	(null)	1	(null)
2 ST	OCKCODE	NUMBER(7,0)	Yes	(null)	2	(null)
3 DE	SCRIPTION	VARCHAR2 (35 BYTE)	Yes	(null)	3	(null)
4 QU	ANTITY	NUMBER(4,0)	Yes	(null)	4	(null)
5 IN	VOICEDATE	VARCHAR2 (25 BYTE)	Yes	(null)	5	(null)
6 PR	ICE	FLOAT	Yes	(null)	6	(null)
7 CU	STOMER_ID	NUMBER(7,0)	Yes	(null)	7	(null)
8 CO	UNTRY	VARCHAR2(20 BYTE)	Yes	(null)	8	(null)

• b. Column names: refer to the column names available in the data sheet

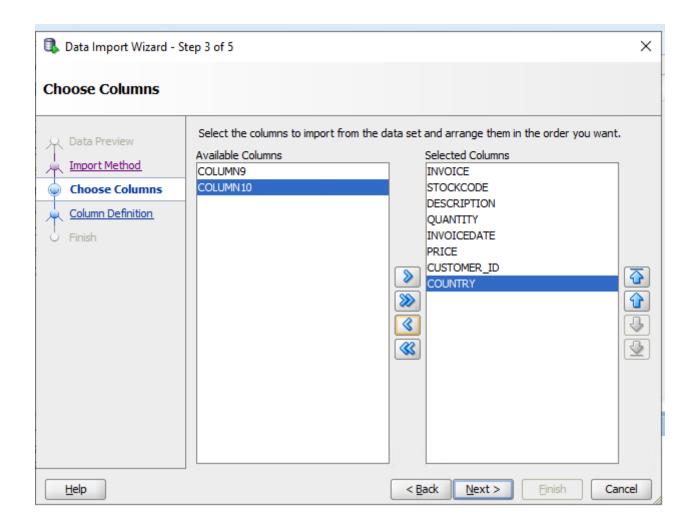
c. Data types: Identify the data types referring the data sheet

Load the OnlineRetail data into the newly created table.

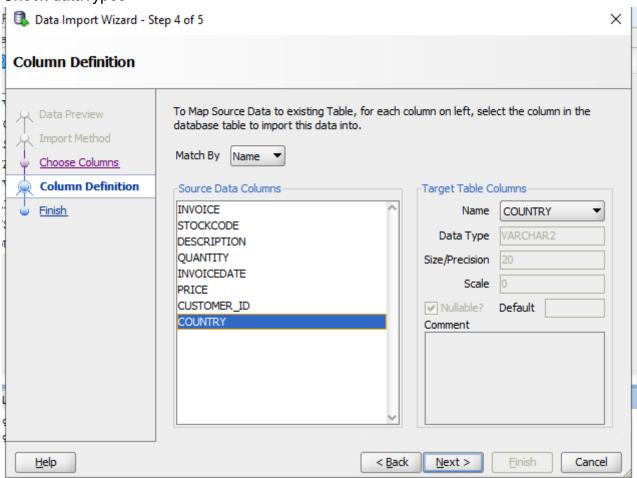
Import the data and make sure you can see everything in the data sheet. Use logical iduction to verify if all data is

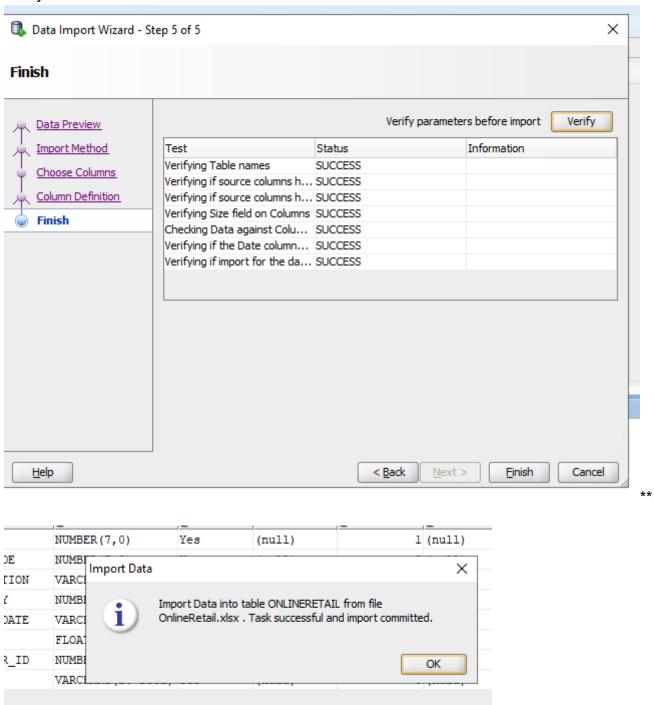


Import essentials only



Check dataTypes





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

• a. Index name: Price_IX

