

SCHEMA EXPORT IMPORT AUTONOMOUS DATA WAREHOUSE USING SQL DEVELOPER

1. Login to oracle cloud

Signing in to cloud tenant:
twilight
[Change tenant](#)

Single Sign-On (SSO)

We have detected that your tenancy has been federated to another Identity Provider.

Select your Identity Provider below.

IDENTITY PROVIDER

[Continue](#)

Oracle Cloud Infrastructure

The login is uncommon for federated accounts. If you have questions, please review the [FAQ](#) or contact your tenancy administrator.

or

USER NAME

PASSWORD

[Sign In](#) [Forgot password?](#)

2. Download the instance wallet..

ORACLE Cloud

Search for resources, services, and documentation

India West (Mumbai)

Core Infrastructure

Compute

Block Storage

Object Storage

File Storage

Networking

Database

Autonomous Data Warehouse

Autonomous Transaction Processing

Bare Metal, VM, and Exadata

Data Safe

Exadata Cloud@Customer

AUTONOMOUS TRANSACTION PROCESSING

Create an ATP database

3-5 mins

Always Free Eligible

AUTONOMOUS DATA WAREHOUSE

Create an ADW database

3-5 mins

Always Free Eligible

RESOURCE MANAGER

Create a stack

2-6 mins

Always Free Eligible

SEARCH

View all my resources

All systems operational

View health dashboard

Account Center

User Management

Add a user to your tenancy

Upgrade

Access all cloud services

What's New

Exadata Database Home tagging available

Jun 24, 2020

ORACLE Cloud

Search for resources, services, and documentation

India West (Mumbai)

Autonomous Database » Autonomous Databases

Autonomous Database

Autonomous Database

Dedicated Infrastructure

Autonomous Container Database

Autonomous Exadata Infrastructure

List Scope

Compartment

twilight (root)

Select the Compartment

Create Autonomous Database

| Display Name | State | Dedicated | OCPU | Storage (TB) | Workload Type | Created |
|--------------|-----------|-----------|------|--------------|----------------|---------------------------------|
| NEWTEST | Available | No | 1 | 0.02 | Data Warehouse | Thu, Jul 2, 2020, 12:20:22 UTC |
| TEST | Available | No | 1 | 0.02 | Data Warehouse | Tue, Jun 30, 2020, 17:18:47 UTC |

Select the appropriate instance

Displaying 2 Autonomous Databases < 1 of 1 >

ORACLE Cloud

Search for resources, services, and documentation

India West (Mumbai)

Autonomous Database » Autonomous Database Details

ADW

AVAILABLE

NEWTEST

Always Free

Click on DB Connection

DB Connection

Performance Hub

Service Console

Scale Up/Down

More Actions

Autonomous Database Information

Tools

Tags

General Information

Database Name: NEWTEST

Workload Type: Data Warehouse

Compartment: twilight (root)

OCID: ...hmzp6q Show Copy

Created: Thu, Jul 2, 2020, 12:20:22 UTC

OCPU Count: 1

Infrastructure

Dedicated Infrastructure: No

Backup

Last Automatic Backup: Thu, Jul 2, 2020, 12:25:02 UTC

Network

Database Connection

Help

Close

You will need the client credentials and connection information to connect to your database. The client credentials include the wallet, which is required for all types of connections.

Download Client Credentials (Wallet)

To download your client credentials, select the type of wallet, then click **Download Wallet**. You will be asked to create a password for the wallet.

Wallet Type ⓘ

Instance Wallet

Select instance wallet

Download Wallet

Rotate Wallet

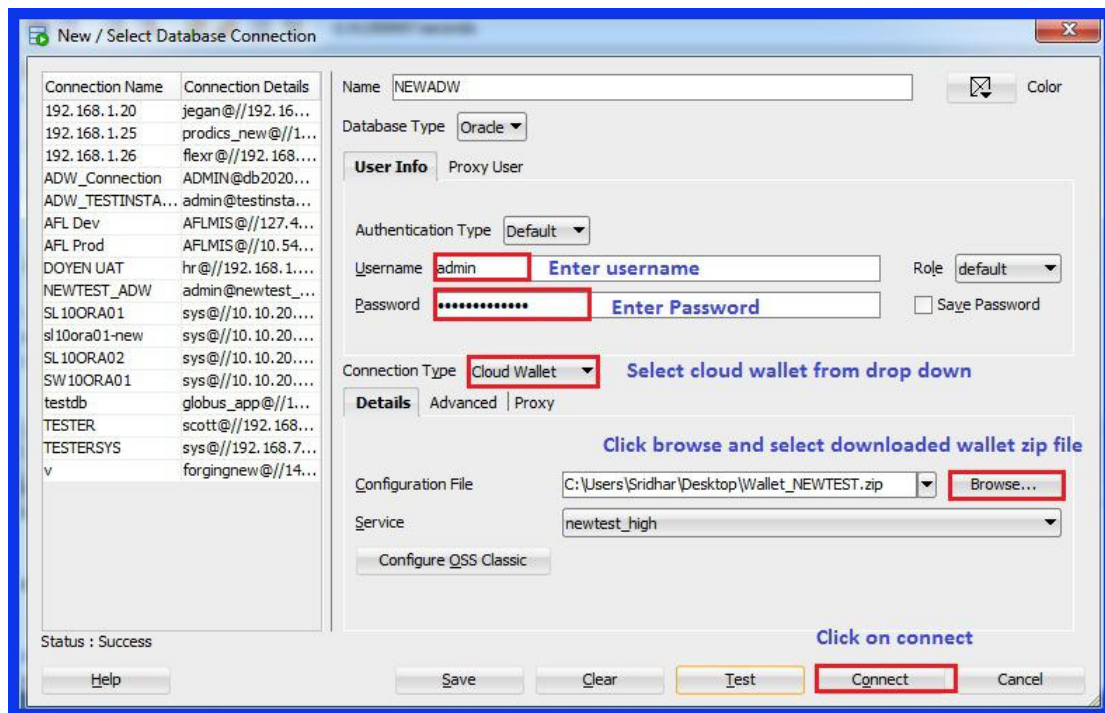
Click download

Wallet last rotated: - If Password is asked for wallet ,give password for wallet

Close

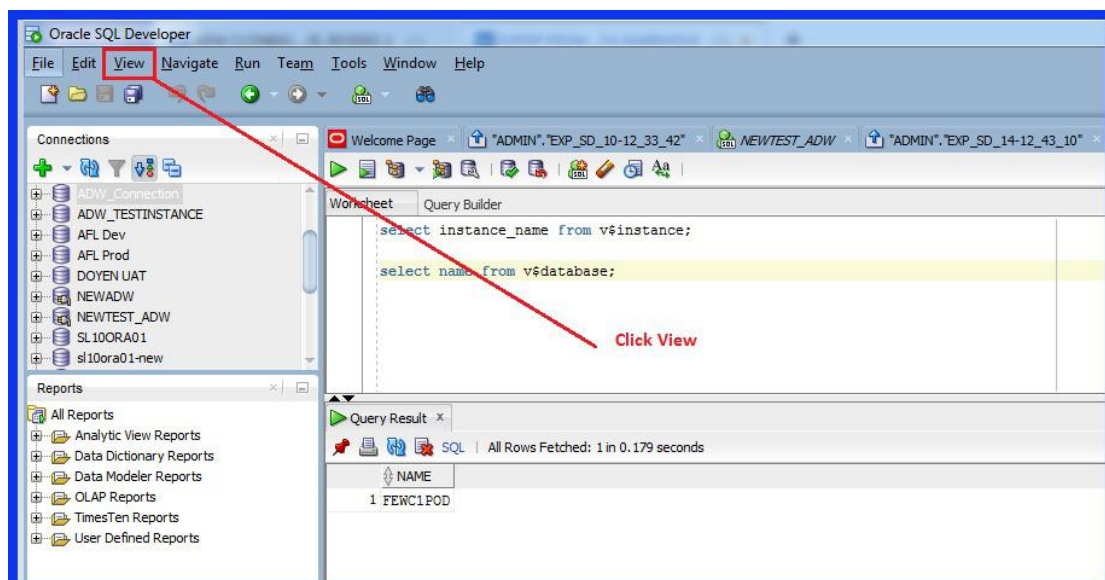
3. Download and install Latest version of SQLDEVELOPER

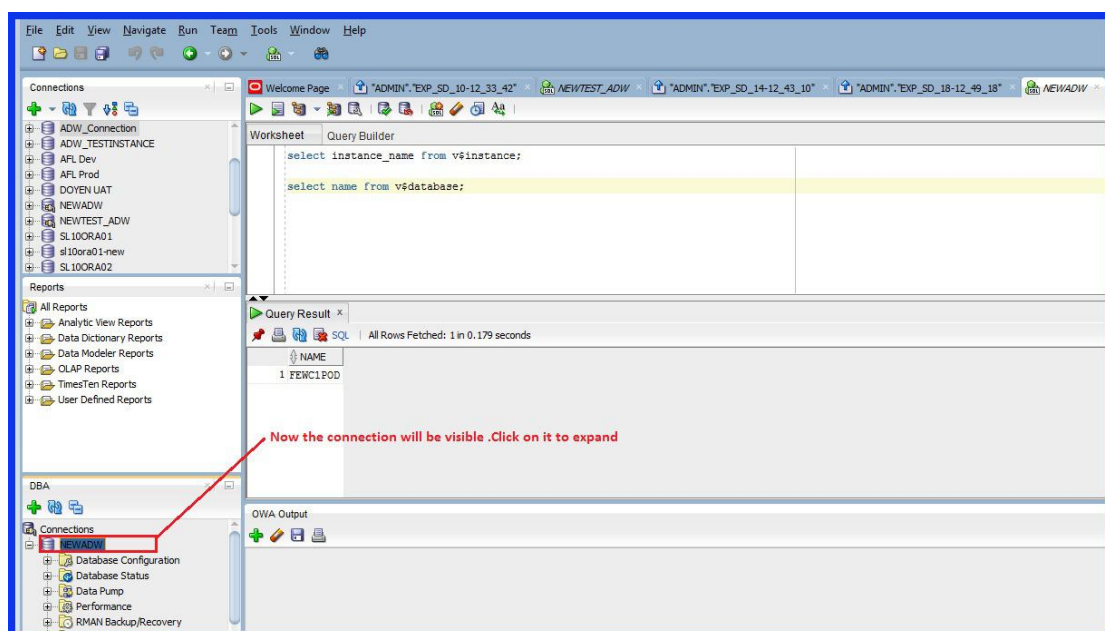
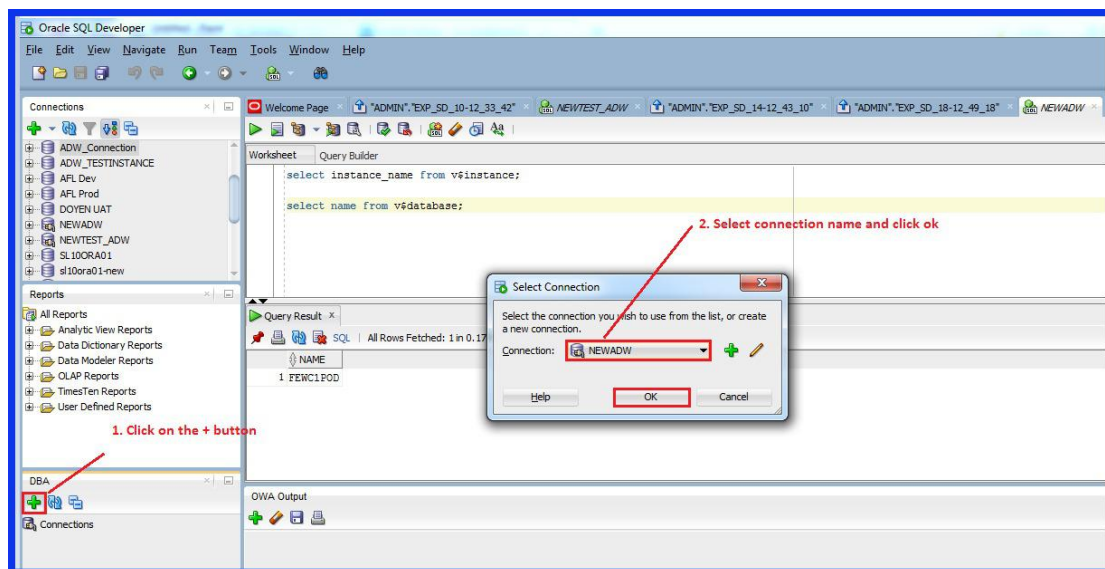
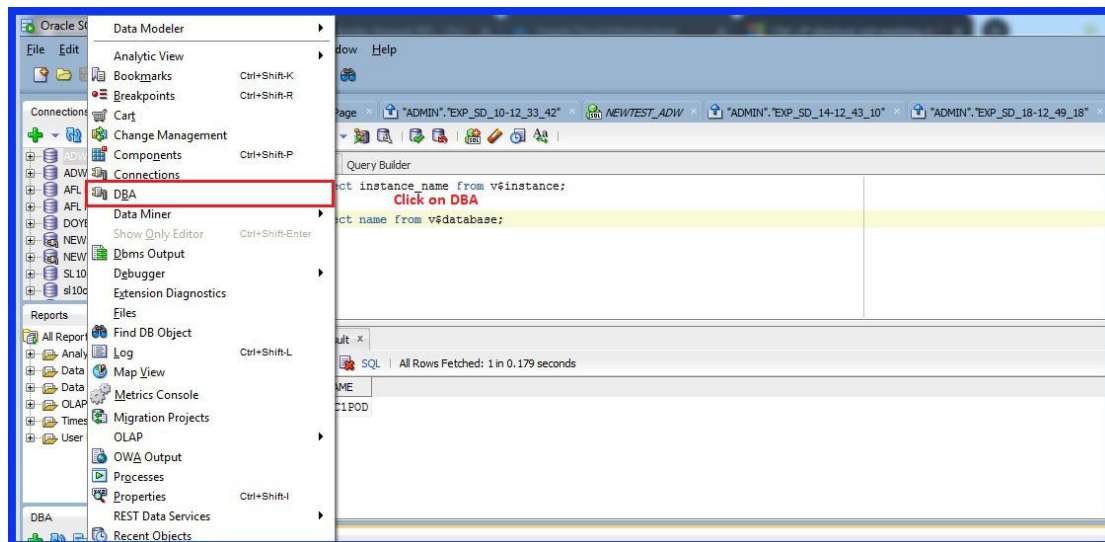
Connect to the instance using wallet.

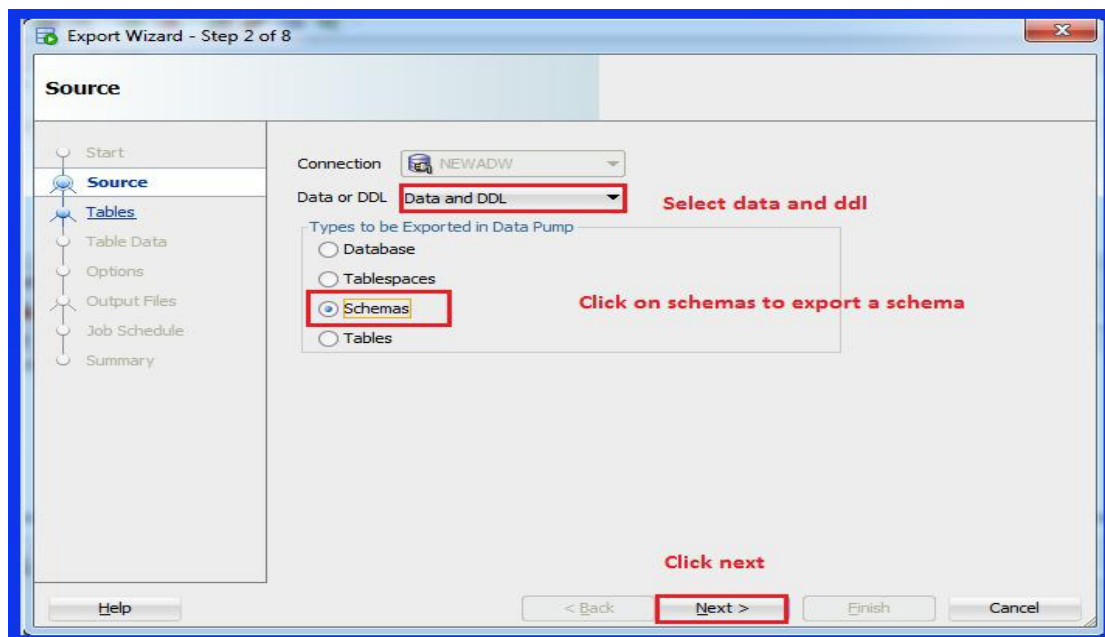
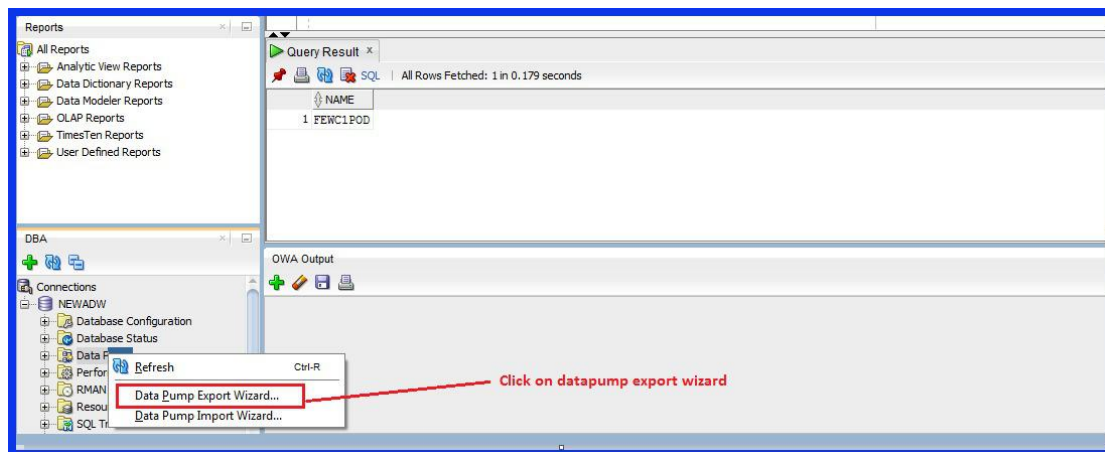
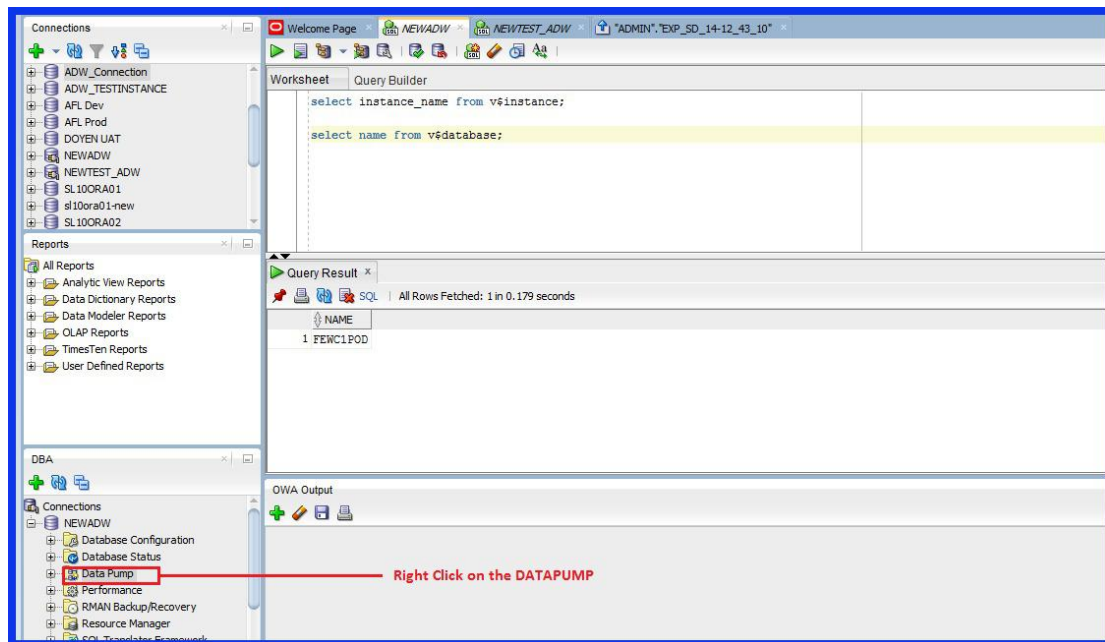


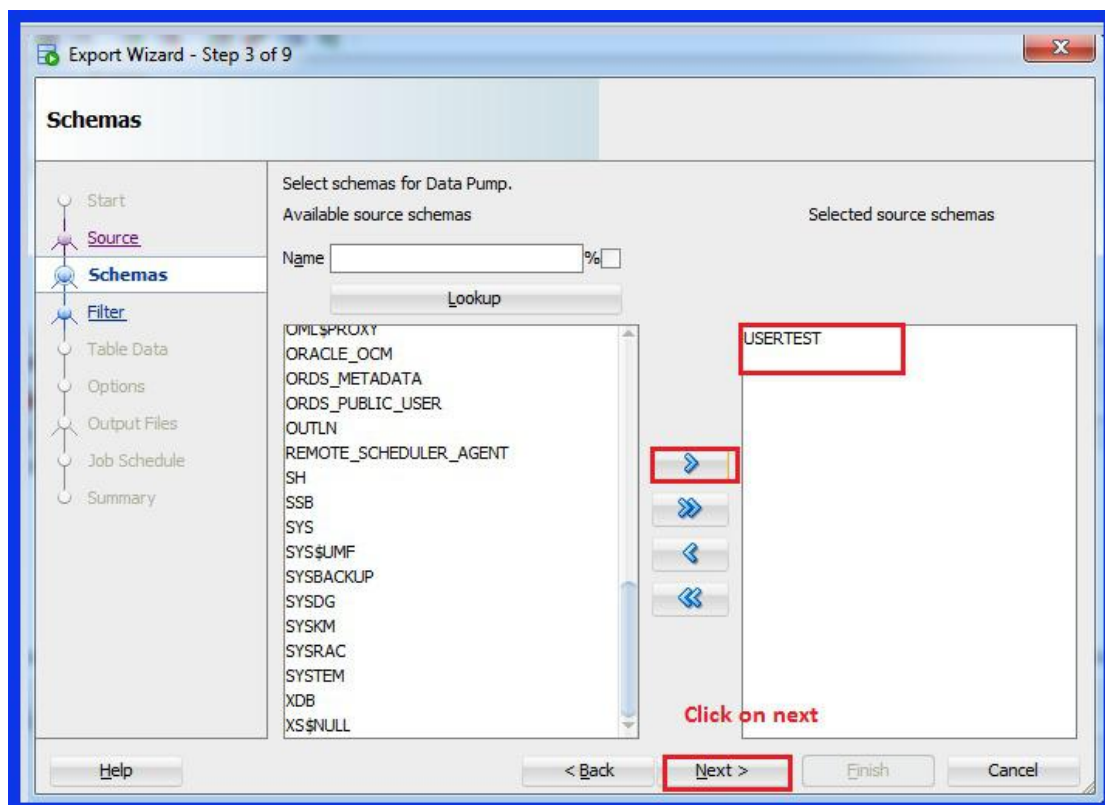
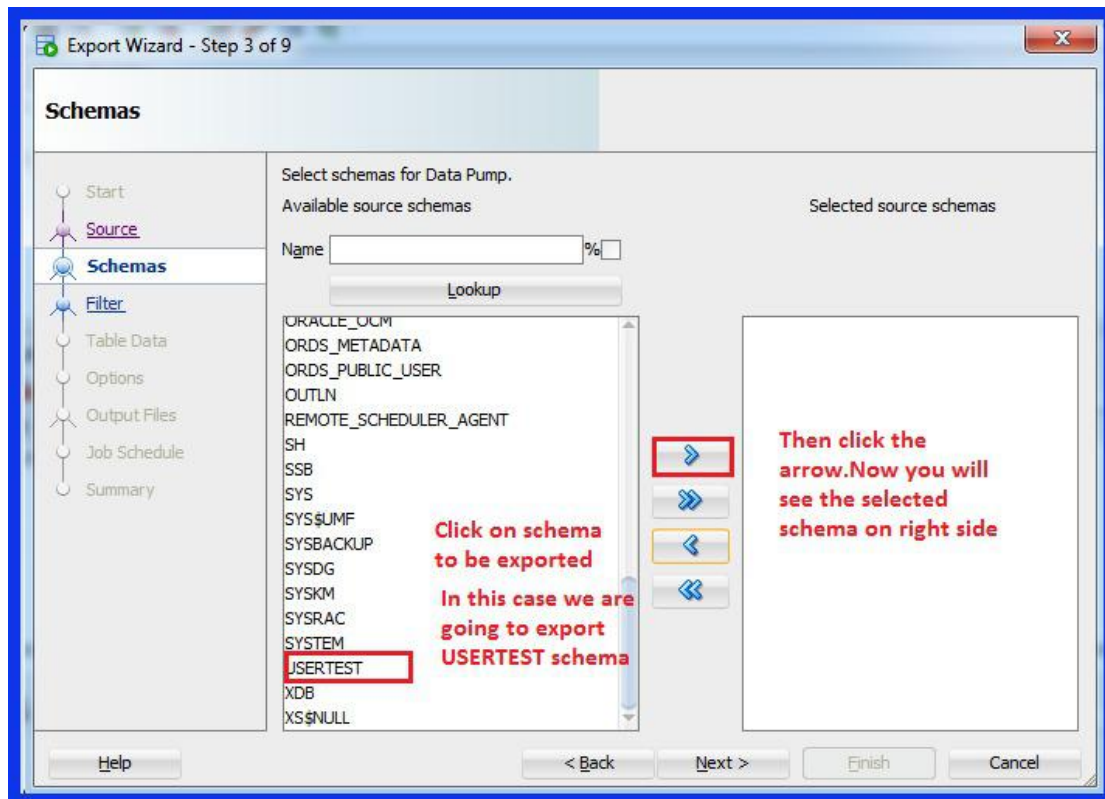
DATAPUMP EXPORT

To Export the schema Follow below steps. In this case we are going to export the schema USERTEST









Export Wizard - Step 4 of 9

Filter

☐ Enable Include Filter

☒ Referenced Types ☐ All Types (Blank = Exclude Type)

| Filter Type | Expression |
|-------------|------------|
|-------------|------------|

Click Next

Export Wizard - Step 5 of 9

Table Data

Name % ☐

| Database Object | Columns | Object Where |
|-----------------|---------|--------------|
|-----------------|---------|--------------|

Global Where:

Click Next

Export Wizard - Step 6 of 9

Options

- Start
- Source
- Schemas
- Filter
- Table Data
- Options**
- Output Files
- Job Schedule
- Summary

Thread Number:

Estimate: Blocks Calculate (Not Calculated yet)

☒ Enable Logging

Log File: DATA_PUMP_DIR EXP_USERTEST.LOG

☐ Export read-consistent view of data

By SCN ☒ By Date ☐

VERSION: COMPATIBLE

☐ Delete Master table

Click on next

Help < Back **Next >** Finish Cancel

Name the export logfile

Select the directory where the export dumpfile needs to be created

Export Wizard - Step 7 of 9

Output Files

- Start
- Source
- Schemas
- Filter
- Table Data
- Options
- Output Files**
- Job Schedule
- Summary

Choose Output Files

| Directories | File Names | Size (M) |
|---------------|--------------------|----------|
| DATA_PUMP_DIR | EXP_USERTEST%U.DMP | 1024 |

Add Row Remove Row

File Actions

☐ Delete Existing Dump Files

☒ Append Timestamp to Dump, Log and Job names

☐ Compression ☐ Encryption Password ☐ Transparent

☐ Copy files to Oracle Object Storage Service (OSS)

OSS Transfer

☐ Oracle Directory path override:

Data Pump Export Job Name:

☐ Proceed to summary.

Click next

Help < Back **Next >** Finish Cancel

Size of each dumpfile

Click and edit dumpfile name

Compression needs additional licence. If needed click check box

Export Wizard - Step 8 of 9

Job Schedule

Start
Source
Schemas
Filter
Table Data
Options
Output Files
Job Schedule
Summary

Job Parameters
Job Name: **USERTEST_EXPORT** EXPORT Job name
Job Description:

Job Schedule
Start
☒ Immediately IST
☐ Later
Date: Jul 3, 2020 5:11:08
Repeat
☒ One Time Only
☐ Interval
Frequency: 1 Minutes
☐ Monthly
☐ Yearly
Repeat Until
☒ Indefinite
☐ Custom
Date: Jul 3, 2020 5:11:08

Click next

Help < Back **Next >** Finish Cancel

Export Wizard - Step 9 of 9

Summary

Start
Source
Schemas
Filter
Table Data
Options
Output Files
Job Schedule
Summary

Summary PL/SQL

- Connections
 - Source: NEWADW
- Tables with Where Clause
 - ☒ No Individual Table Where Clauses
- Schema
 - USERTEST
- Options
 - ☒ Type - Schemas
 - ☒ Data or DDL - Data and DDL
 - ☒ Threads - 1
 - Log File - DATA_PUMP_DIR EXP_USERTEST.LOG
 - Output File - DATA_PUMP_DIR EXP_USERTEST%U.DMP Size Limit - 1024M
 - Append Date to file names - true
 - ☒ Schedule - Immediate
 - ☒ For Object Store Service = FALSE
 - ☒ OSS File Transfer is OFF
 - ☒ OSS Full Import is OFF
 - ☒ VERSION - COMPATIBLE
 - ☒ Encryption password is on: FALSE
 - ☒ Transparent Encryption is on: FALSE

Verify summary and Click Finish

Help < Back Next > **Finish** Cancel

The screenshot shows the Oracle SQL Developer environment. The main window displays a PL/SQL script in the 'Query Builder' tab. The script is as follows:

```

begin
for i in 1 .. 1000000
loop
insert into userstest.TABLE7 values ( i,'SAMPLEDATA'||i,'BLAHBLAHBLAHBLAH'||i);
end loop;
commit;
end;
/

```

The 'Script Output' tab shows the execution progress: 'Task completed in 21.208 seconds', 'PL/SQL procedure successfully completed', and 'Table USERTEST.TABLE7 created.'.

A red box highlights the 'Running Export/Import PL/SQL Script' dialog box, which is titled 'Running Export/Import PL/SQL Script'. The dialog shows a progress bar and the text 'Running Export/Import PL/SQL Script (Running)'. Below the progress bar, it says '[00:07]'. At the bottom of the dialog, there are two buttons: 'Run in Background' and 'Cancel Task'.

A red arrow points to the dialog box with the text 'Export will start to run'.

The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left lists several connections, with 'NEWADW' selected. The main workspace displays a SQL query: `select * from dba_datapump_jobs;`. A red box highlights this query, and a red arrow points to the 'Query Result' tab at the bottom. The 'Query Result' tab shows the following data:

| OWNER_NAME | JOB_NAME | OPERATION | JOB_MODE | STATE | DEGREE | ATTACHED_SESSIONS | DATAPUMP_SERV |
|------------|--------------------------|-----------|----------|-------------|--------|-------------------|---------------|
| ADMIN | USERTEST_EXPORT-23_41_07 | EXPORT | SCHEMA | EXECUTING | 1 | 0 | |
| ADMIN | EXP_SD_18-12_49_18 | EXPORT | SCHEMA | NOT RUNNING | 0 | 0 | |
| ADMIN | EXP_SD_14-12_43_10 | EXPORT | SCHEMA | NOT RUNNING | 0 | 0 | |

Annotations in the image include: 'We can check export job execution querying DBA_DATAPUMP_JOBS' pointing to the query, and 'Here we see our export job USERTEST_EXPORT is Executing. After completion state changes to not running' pointing to the 'EXECUTING' state of the first job.

The screenshot shows the Oracle SQL Developer interface. On the left, the 'Connections' pane lists several database connections, including 'ADW_Connection', 'ADW_TESTINSTANCE', 'AFL Dev', 'AFL Prod', 'DOYEN UAT', 'NEWADW', 'NEWTEST_ADW', 'SL10ORA01', and 'sl10ora01-new'. The 'Reports' pane is also visible, showing 'All Reports' and various report categories. The main window displays the 'Actions' tab for the 'NEWTEST_ADW' connection. A table lists the execution details of a PL/SQL procedure:

| OWNER_NAME | JOB_NAME | JOB_MODE | STATE | DEGREE | ATTACHED_SESSIONS | DATAPUMP_SESSIONS |
|------------|--------------------------|----------|-----------|--------|-------------------|-------------------|
| ADMIN | USERTEST_EXPORT-23_41_07 | SCHEMA | EXECUTING | 1 | 0 | 2 |

Below the table, the 'LOG FILES' section shows the execution log for the procedure:

```

PL/SQL procedure successfully completed.

CHECKING MASTER TABLE

PL/SQL procedure successfully completed.

PL/SQL procedure successfully completed.

OWNER: ADMIN JOB_NAME: USERTEST_EXPORT-23_41_07

OPENING: DATA_PUMP_DIR:EXP_USERTEST-23_52_37.LOG
DIRECTORY: DATA_PUMP_DIR FILE: EXP_USERTEST-23_52_37.LOG

PL/SQL procedure successfully completed.
  
```

A red box highlights the log output, and a red arrow points to it with the text: "After export completion we can see output like this".

To find the dumpfiles in the directory .Use the below query.

```
SELECT * FROM DBMS_CLOUD.LIST_FILES('DATA_PUMP_DIR');
```

Note : DATA_PUMP_DIR is directory name

The screenshot shows the Oracle SQL Developer interface. The 'Query Builder' window contains the query: `SELECT * FROM DBMS_CLOUD.LIST_FILES('DATA_PUMP_DIR');`. Below the query, a red box highlights the text: "The above command will list the dumpfiles in the directory". The 'Query Result' window shows the output of the query, which is a table with columns: OBJECT_NAME, BYTES, CHECKSUM, CREATED, and LAST_MODIFIED. The table lists various files, including EXPDAT and USERTEST dumpfiles. A red box highlights the last three rows of the table, which are USERTEST dumpfiles.

| OBJECT_NAME | BYTES | CHECKSUM | CREATED | LAST_MODIFIED |
|--------------------------------|-------------------|----------|-------------------------------------|-------------------------------------|
| 1 EXPDAT-12_38_08.LOG | 202 (null) | | 02-JUL-20 12.38.08.000000000 PM GMT | 02-JUL-20 12.38.56.000000000 PM GMT |
| 2 EXPDAT-12_43_52.LOG | 1188 (null) | | 02-JUL-20 12.43.51.000000000 PM GMT | 02-JUL-20 12.47.28.000000000 PM GMT |
| 3 EXPDAT01-12_43_52.DMP | 49115136 (null) | | 02-JUL-20 12.43.52.000000000 PM GMT | 02-JUL-20 12.47.27.000000000 PM GMT |
| 4 EXPDAT-12_49_18.LOG | 1190 (null) | | 02-JUL-20 12.57.09.000000000 PM GMT | 02-JUL-20 01.00.14.000000000 PM GMT |
| 5 USERTEST01-12_49_18.DMP | 49115136 (null) | | 02-JUL-20 12.57.09.000000000 PM GMT | 02-JUL-20 01.00.13.000000000 PM GMT |
| 6 ADW.docx | 841479 (null) | | 02-JUL-20 02.26.08.000000000 PM GMT | 02-JUL-20 02.26.08.000000000 PM GMT |
| 7 EXP_USERTEST-23_52_37.LOG | 2842 (null) | | 02-JUL-20 11.52.36.000000000 PM GMT | 03-JUL-20 12.01.01.000000000 AM GMT |
| 8 EXP_USERTEST01-23_52_37.DMP | 1073741824 (null) | | 02-JUL-20 11.52.36.000000000 PM GMT | 02-JUL-20 11.56.02.000000000 PM GMT |
| 9 EXP_USERTEST02-23_52_37.DMP | 1073741824 (null) | | 02-JUL-20 11.58.01.000000000 PM GMT | 03-JUL-20 12.00.51.000000000 AM GMT |
| 10 EXP_USERTEST03-23_52_37.DMP | 216952832 (null) | | 03-JUL-20 12.00.21.000000000 AM GMT | 03-JUL-20 12.00.59.000000000 AM GMT |

To IMPORT the schema follow below steps.

In this case we are importing the **USERTEST** schema by renaming it to **USERDEV**.

The screenshot shows the Oracle SQL Developer interface. The 'Query Builder' window contains the query: `SELECT * FROM DBMS_CLOUD.LIST_FILES('DATA_PUMP_DIR');`. The 'Query Result' window shows the output of the query, which is a table with columns: OBJECT_NAME, BYTES, CHECKSUM, and CREATED. The table lists various files, including EXPDAT and USERTEST dumpfiles. A red box highlights the last three rows of the table, which are USERTEST dumpfiles. The 'Data Pump Import Wizard' dialog box is open, showing the 'Schema to be imported' as USERTEST and the 'Target schema' as USERDEV.

| OBJECT_NAME | BYTES | CHECKSUM | CREATED |
|--------------------------------|-------------------|----------|------------------------|
| 1 EXPDAT-12_38_08.LOG | 202 (null) | | 02-JUL-20 12.38.08.000 |
| 2 EXPDAT-12_43_52.LOG | 1188 (null) | | 02-JUL-20 12.43.51.000 |
| 3 EXPDAT01-12_43_52.DMP | 49115136 (null) | | 02-JUL-20 12.43.52.000 |
| 4 EXPDAT-12_49_18.LOG | 1190 (null) | | 02-JUL-20 12.57.09.000 |
| 5 USERTEST01-12_49_18.DMP | 49115136 (null) | | 02-JUL-20 12.57.09.000 |
| 6 ADW.docx | 841479 (null) | | 02-JUL-20 02.26.08.000 |
| 7 EXP_USERTEST-23_52_37.LOG | 2842 (null) | | 02-JUL-20 11.52.36.000 |
| 8 EXP_USERTEST01-23_52_37.DMP | 1073741824 (null) | | 02-JUL-20 11.52.36.000 |
| 9 EXP_USERTEST02-23_52_37.DMP | 1073741824 (null) | | 02-JUL-20 11.58.01.000 |
| 10 EXP_USERTEST03-23_52_37.DMP | 216952832 (null) | | 03-JUL-20 12.00.21.000 |
| 11-00_26_01.LOG | 1639 (null) | | 03-JUL-20 12.26.00.000 |

Import Wizard - Step 1 of 6

Type

Type

Filter

Remapping

Options

Schedule

Summary

Connection: NEWTEST

Job Name: **IMP_SD_90** *Specify job name if needed*

Data or DDL: Data and DDL

Encryption Password: ☐ OMIT

Type of import:

☒ **Schemas** *Choose schemas*

☐ Full

☐ Tables

☐ Tablespaces

Choose Input Files

| Credentials or Directories | File Names or URI |
|----------------------------|--------------------------|
| DIRECTORY:DATA_PUMP... | EXP_USERTEST02-23_52_... |
| DIRECTORY:DATA_PU... | EXP_USERTEST03-23_52_... |

Add Row **Remove Row**

Enter the dumpfile name which need to be imported. If multiple dumpfiles need to imported, we need to add one by one

Click add row and select DIRECTORY from drop down menu

Help < Back **Next >** Finish Cancel

Import Wizard - Step 2 of 6

Filter

Type

Filter

Remapping

Options

Schedule

Summary

Schemas Include Filter

Select schemas for Data Pump.

Available source schemas

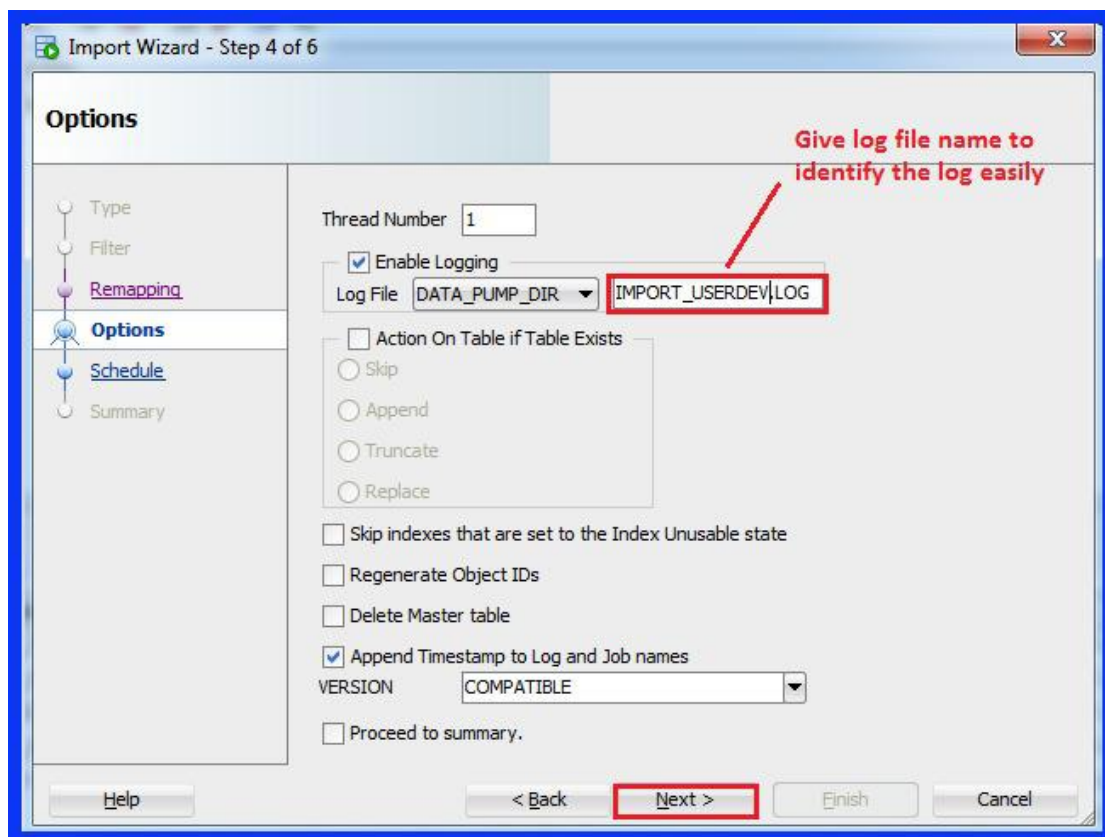
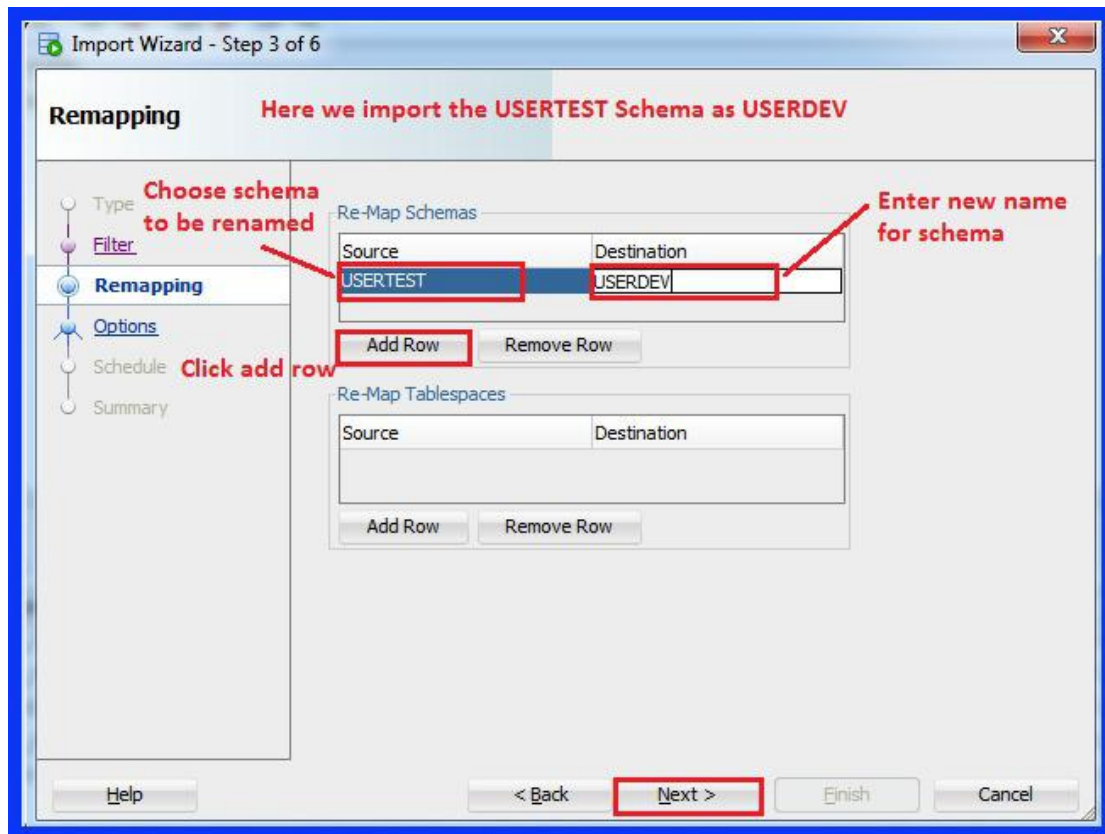
USERTEST

Select schema to import

Selected source schemas

Click on arrow .The schema will be visible in right hand side

Help < Back **Next >** Finish Cancel



Import Wizard - Step 5 of 6

Schedule

Type
Filter
Remapping
Options
Schedule
Summary

Job Parameters
Job Name:
Job Description:

Job Schedule
Start
☒ Immediately
☐ Later
Date:

Repeat
☒ One Time Only
☐ Interval
Frequency:
☐ Monthly
☐ Yearly

Repeat Until
☒ Indefinite
☐ Custom
Date:

Help < Back **Next >** Finish Cancel

Import Wizard - Step 6 of 6

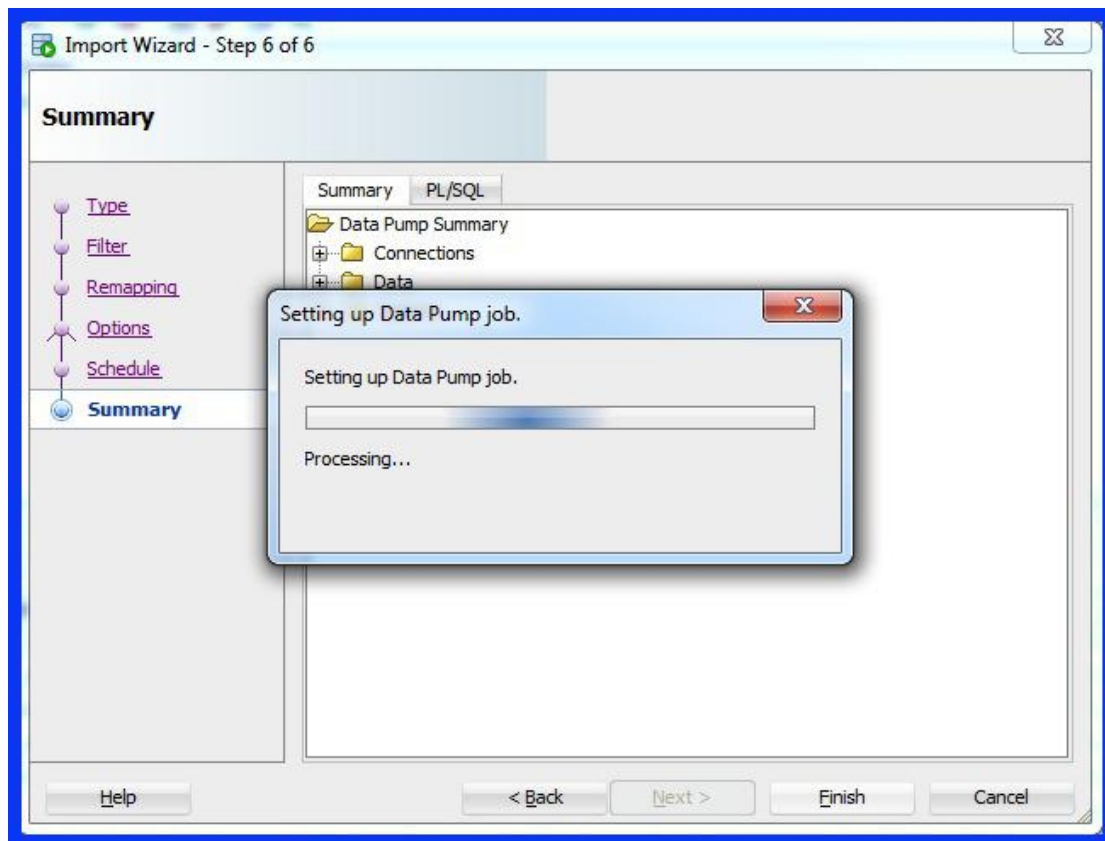
Summary

Type
Filter
Remapping
Options
Schedule
Summary

Summary PL/SQL
Data Pump Summary
Connections
Data
Options

Help < Back Next > **Finish** Cancel

Now we can see the import job started.



```
. estimated "USERTEST"."TABLE8"                4.683 KB
. estimated "USERTEST"."TABLE9"                4.683 KB
Processing object type SCHEMA_EXPORT/TABLE/STATISTICS/TABLE_STATISTICS
Processing object type SCHEMA_EXPORT/STATISTICS/MARKER
Processing object type SCHEMA_EXPORT/USER
Processing object type SCHEMA_EXPORT/SYSTEM_GRANT
Processing object type SCHEMA_EXPORT/DEFAULT_ROLE
Processing object type SCHEMA_EXPORT/PASSWORD_HISTORY
Processing object type SCHEMA_EXPORT/PRE_SCHEMA/PROCACT_SCHEMA
Processing object type SCHEMA_EXPORT/TABLE/TABLE
Processing object type SCHEMA_EXPORT/POST_SCHEMA/PROCACT_SCHEMA
. . exported "USERTEST"."TABLE10"              492.7 MB 10000000 rows
. . exported "USERTEST"."TABLE11"              492.7 MB 10000000 rows
. . exported "USERTEST"."TABLE1"               46.50 MB 1000000 rows
. . exported "USERTEST"."TABLE2"               4.456 MB 100000 rows
. . exported "USERTEST"."TABLE3"              46.50 MB 1000000 rows
. . exported "USERTEST"."TABLE4"              492.7 MB 10000000 rows
. . exported "USERTEST"."TABLE5"              46.50 MB 1000000 rows
. . exported "USERTEST"."TABLE6"              46.50 MB 1000000 rows
. . exported "USERTEST"."TABLE7"              46.50 MB 1000000 rows
. . exported "USERTEST"."TABLE8"              46.50 MB 1000000 rows
. . exported "USERTEST"."TABLE9"              492.7 MB 10000000 rows
ORA-39173: Encrypted data has been stored unencrypted in dump file set.
Master table "ADMIN"."USERTEST_EXPORT-23_41_07" successfully loaded/unloaded
*****
```

Verifying the IMPORT

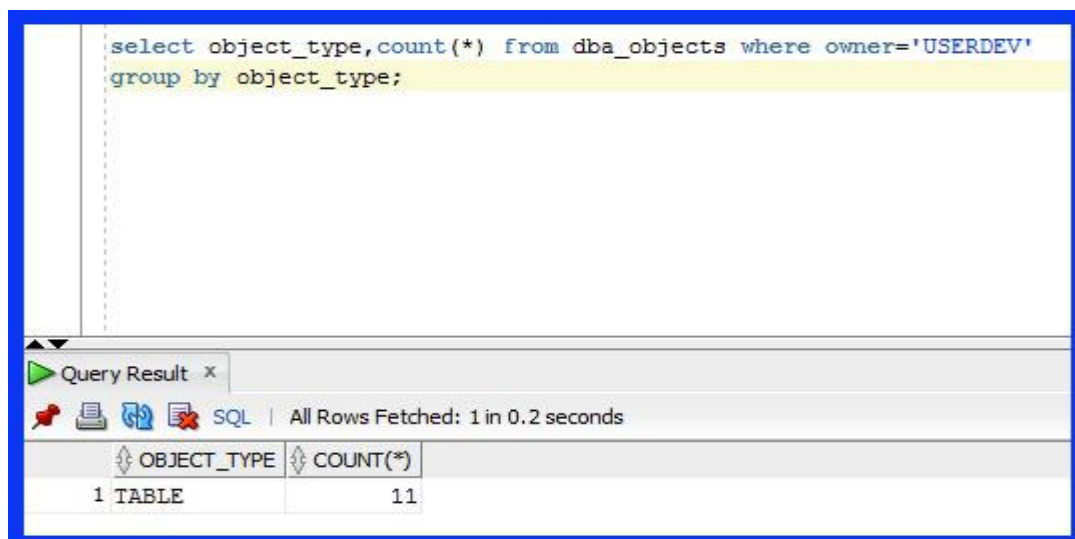
Checking for new schema USERDEV



The screenshot shows a SQL query in a text editor: `select * from dba_users where username='USERDEV';`. Below the editor, the 'Query Result' window displays the results of the query. It shows one row with the following details: USERNAME: USERDEV, USER_ID: 127, CREATED: 06-JUL-20, PASSWORD: (null), ACCOUNT_STATUS: OPEN, LOCK_DATE: (null), and EXPIRY_DATE: 01-JUL-21. The status bar indicates 'All Rows Fetched: 1 in 0.207 seconds'.

| | USERNAME | USER_ID | CREATED | PASSWORD | ACCOUNT_STATUS | LOCK_DATE | EXPIRY_DATE |
|---|----------|---------|-----------|----------|----------------|-----------|-------------|
| 1 | USERDEV | 127 | 06-JUL-20 | (null) | OPEN | (null) | 01-JUL-21 |

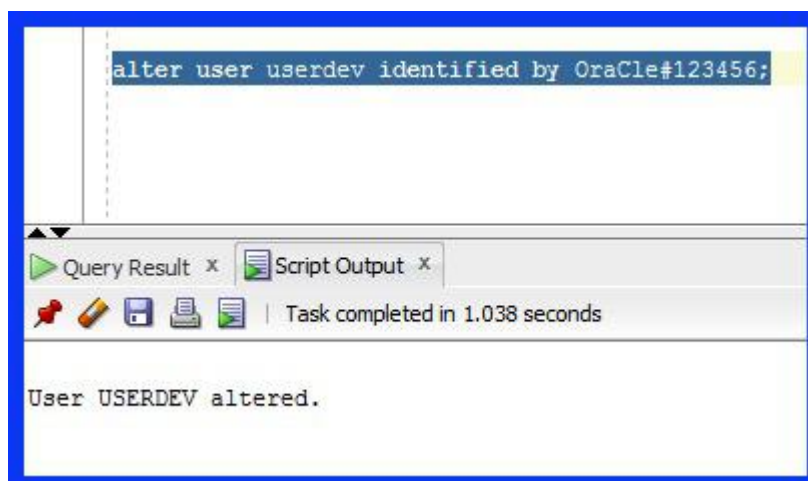
Checking objects in new schema



The screenshot shows a SQL query in a text editor: `select object_type,count(*) from dba_objects where owner='USERDEV' group by object_type;`. Below the editor, the 'Query Result' window displays the results. It shows one row: OBJECT_TYPE: TABLE, COUNT(*): 11. The status bar indicates 'All Rows Fetched: 1 in 0.2 seconds'.

| | OBJECT_TYPE | COUNT(*) |
|---|-------------|----------|
| 1 | TABLE | 11 |

Changing new schema password.



The screenshot shows a SQL query in a text editor: `alter user userdev identified by OraCle#123456;`. Below the editor, the 'Query Result' window displays the message 'User USERDEV altered.'. The status bar indicates 'Task completed in 1.038 seconds'.

| | Message |
|---|-----------------------|
| 1 | User USERDEV altered. |