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SQL Developer 3.1 Data Pump Wizards (expdp, impdp)

SQL Developer 3.1 includes a neat GUI interface for Data Pump, allowing you to do on-the-fly exports and imports without having to remember the expdp/impdp command line syntax. This article gives an overview of these wizards.

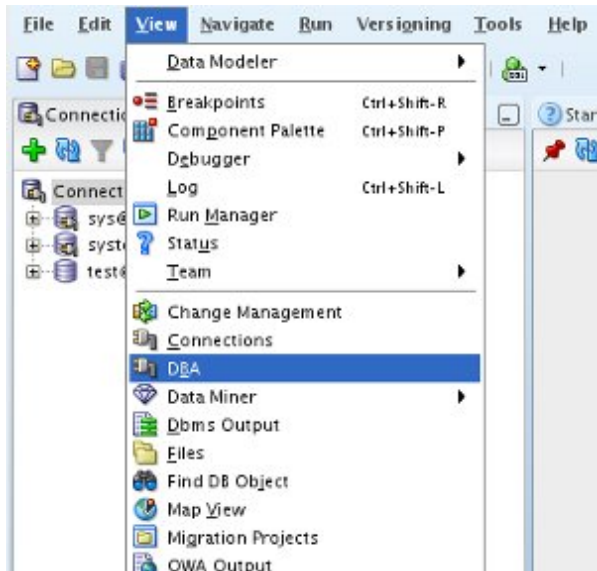
- General Points
- Exports (expdp)
- Imports (impdp)

Related articles.

- Oracle Data Pump in Oracle Database 10g (expdp and impdp) (/articles/10g/oracle-data-pump-10g)
- Data Pump Enhancements in Oracle Database 11g Release 1 (/articles/11g/data-pump-enhancements-11gr1)
- Transportable Tablespaces (/articles/misc/transportable-tablespaces)

General Points

The data pump wizards are accessible from the DBA browser (View > DBA).



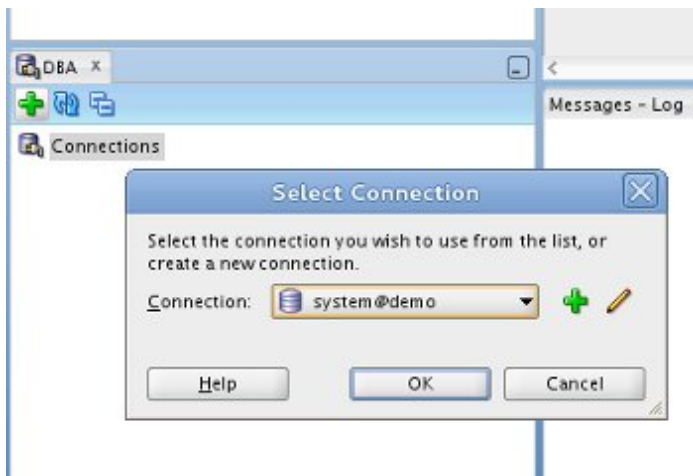
If no connections are available, click the "+" icon and select the appropriate connection from the drop-down list and click the "OK" button. In this case I will be using the "system" connection.

[Translate](#)

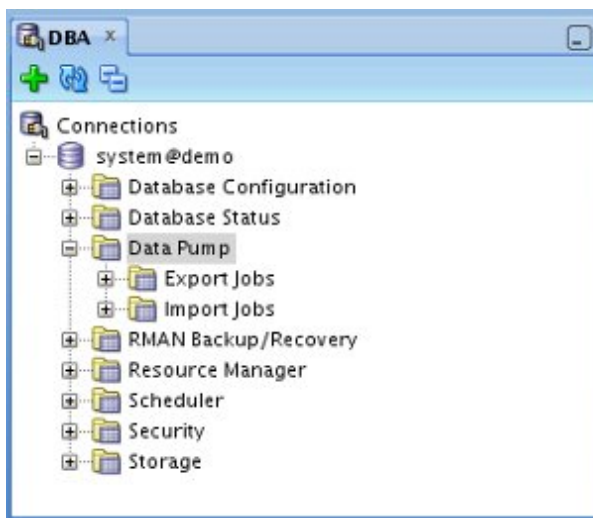

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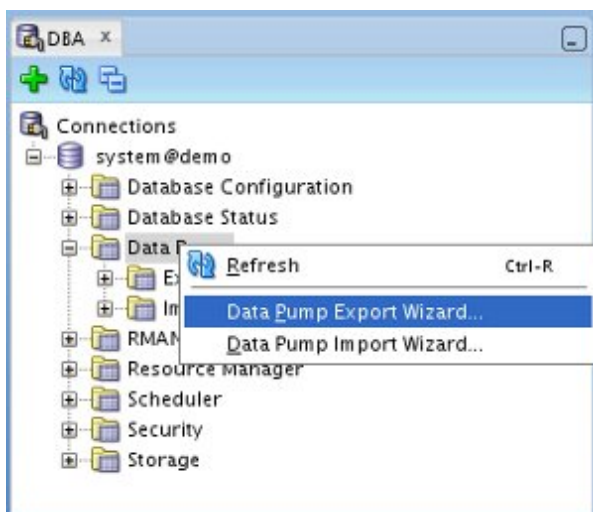
Expanding the connection node in the tree lists a number of functions, including "Data Pump". Expanding the "Data Pump" node displays "Export Jobs" and "Import Jobs" nodes, which can be used to monitor running data pump jobs.



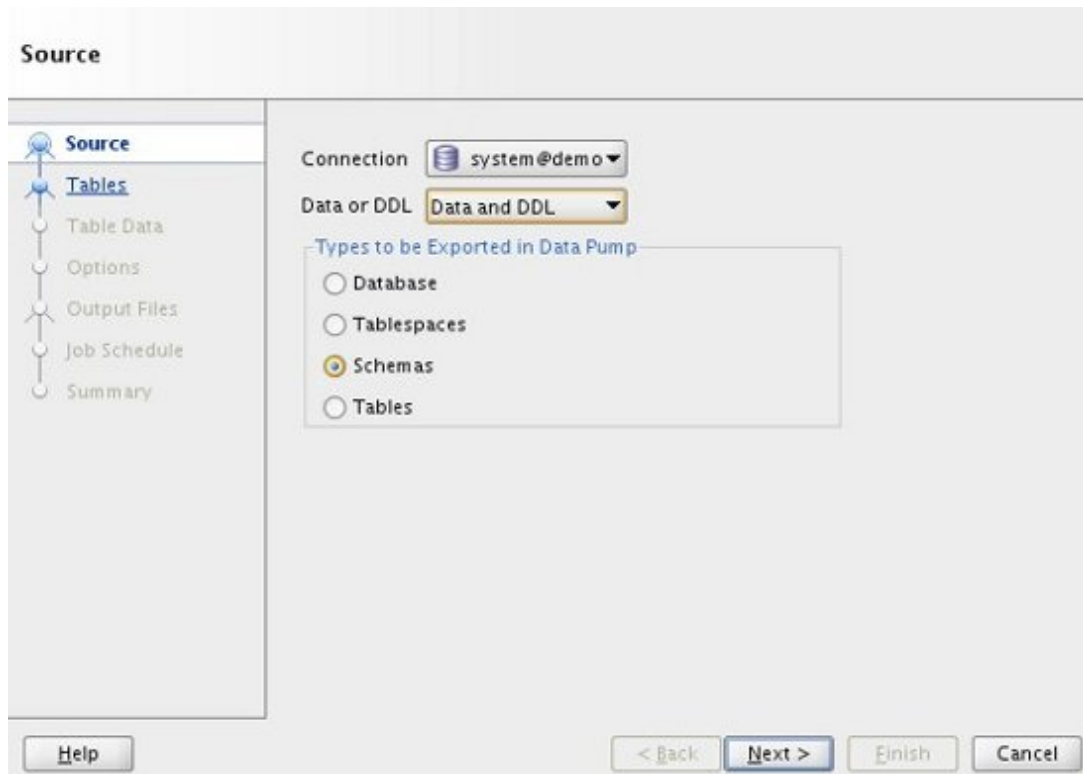
This tree will be the starting point for the operations listed in the following sections.

Exports (expdp)

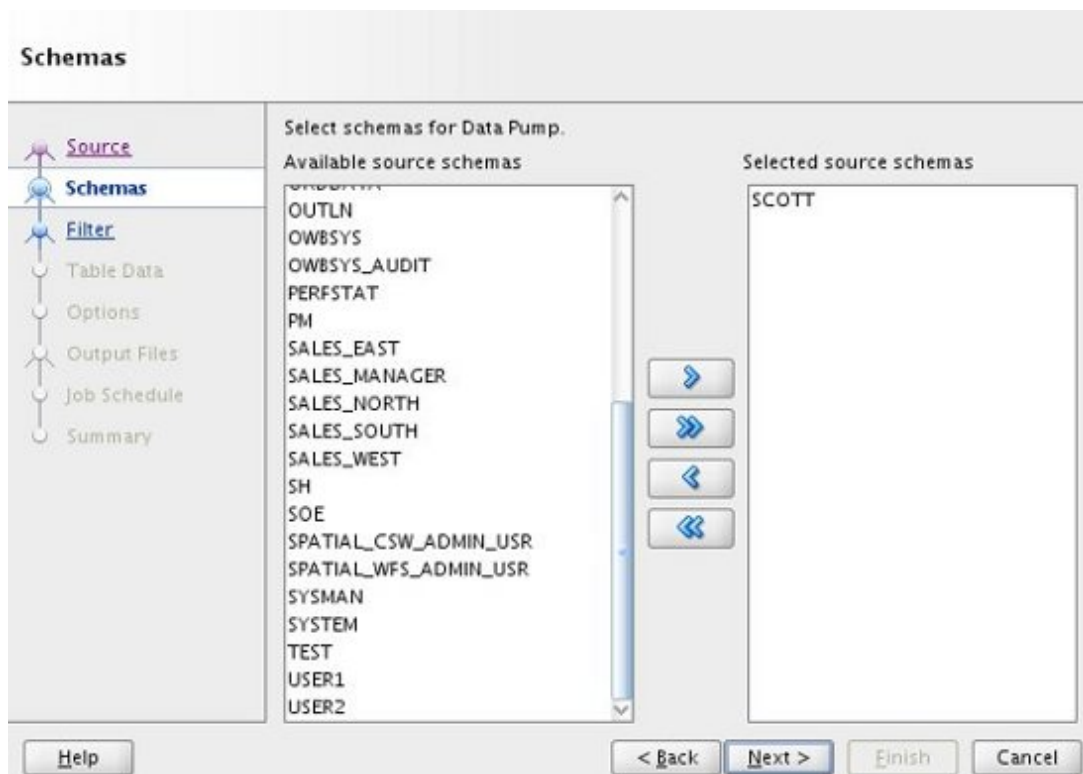
Right-click on either the "Data Pump" or "Export Jobs" tree node and select the "Data Pump Export Wizard..." menu option.



Check the connection details are correct and select the type of export you want to perform, then click the "Next" button. In this case I will do a simple schema export.



The screens that follow will vary depending on the type of export you perform. For the schema export, we must select the schema to be exported. To do this, highlight the schema of interest in the left-hand "Available" pane, then click the ">" button to move it to the right-hand "Selected" pane. When you are happy with your selection, click the "Next" button.



If you have any specific include/exclude filters, add them and click the "Next" button.

Filter

Source
Schemas
Filter
Table Data
Options
Output Files
Job Schedule
Summary

☐ Enable Include Exclude Filter

☒ Include ☐ Exclude

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

Add Row Remove Row

Help < Back Next > Finish Cancel

If you want to apply a `WHERE` clause to any or all of the tables, enter the details in the "Table Data" screen, then click the "Next" button.

Table Data

Source
Schemas
Filter
Table Data
Options
Output Files
Job Schedule
Summary

Name %

More... Lookup

Database Object Columns Object Where

Global Where:

Help < Back Next > Finish Cancel

The "Options" screen allows you to increase the parallelism of the export, name the logfile and control the read-consistent point in time if necessary. When you have selected your specific options, click the "Next" button.

Options

Thread Number:

Estimate: **Blocks** (Not Calculated yet)

☒ Enable Logging

Log File:

☐ Export read-consistent view of data

By SCN: ☒

By Date: ☐

Enter a suitable dump file name by double-clicking on the default name and choose the appropriate action should the file already exist, then click the "Next" button.

Output Files

Choose Output Files

Directories	File Names	Size (M)
DATA_PUMP_DIR	EXPDAT-SCOTT%U.DMP	

☐ Existing files will prevent export

☒ Delete Existing Dump Files

☐ Append Timestamp to Dump and Log file names

☐ Proceed to summary.

If you want to schedule the export to run at a later time, or on regular intervals, enter the details here. The default is to run the job immediately. Click the "Next" button.

Job Schedule

- Source
- Schemas
- Filter
- Table Data
- Options
- Output Files
- Job 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:

Check the summary information is correct. If you need to keep a copy of the job you have just defined, click on the "PL/SQL" tab to see the code. When you are ready, click the "Finish" button.

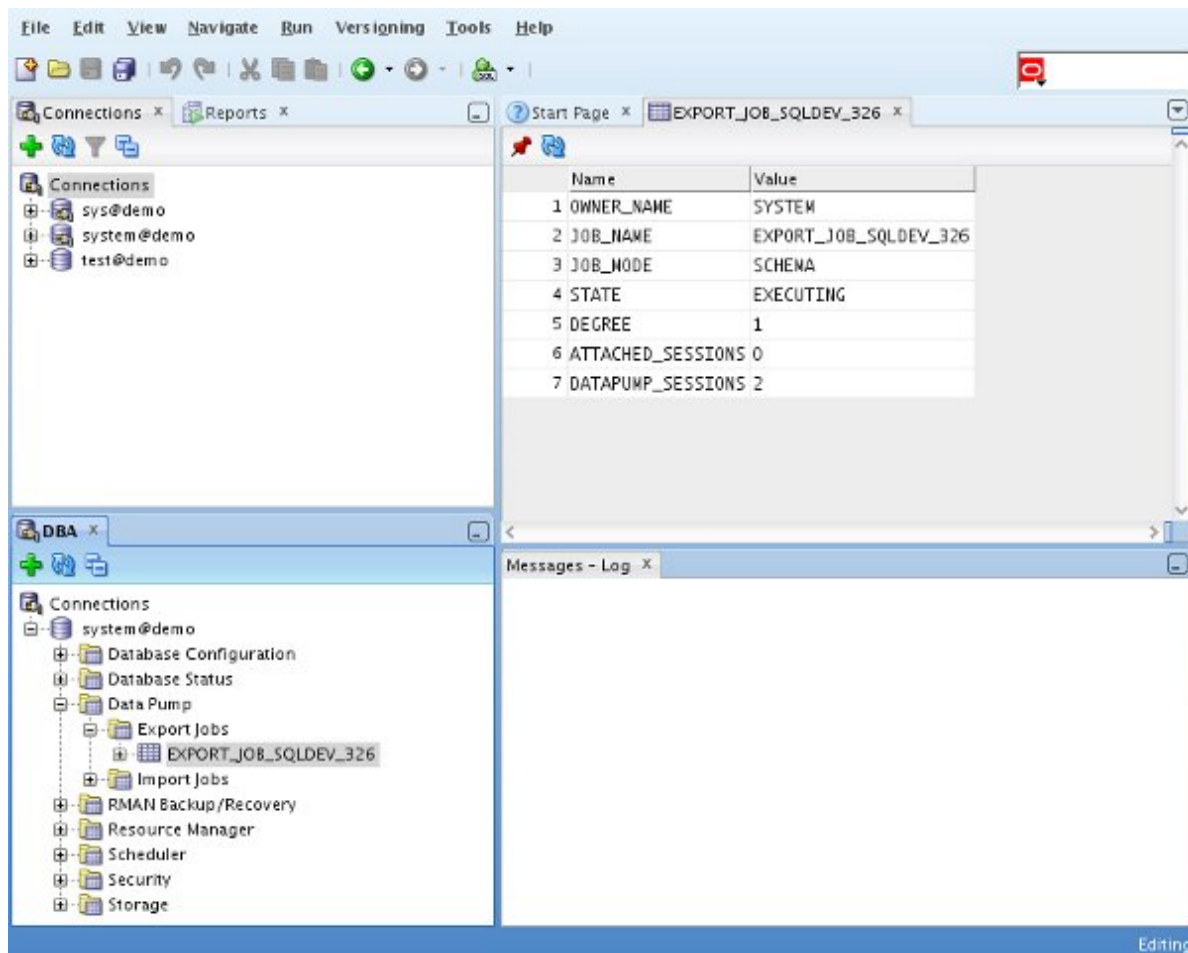
Summary

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

Summary **PL/SQL**

- Data Pump Summary
 - Connections
 - Source: system@demo
 - Tables with Where Clause
 - No Individual Table Where Clauses
 - Schema
 - SCOTT
 - Options
 - Type - Schemas
 - Data or DDL - Data and DDL
 - Threads - 1
 - Log File - DATA_PUMP_DIR EXPDAT-SCOTT.LOG
 - Output File - DATA_PUMP_DIR EXPDAT-SCOTT%U.DMP
 - Delete Existing Dump Files (Uses utl_file.remove) - true
 - Schedule - Immediate

Once the job is initiated, it can be seen under the "Export Jobs" node of the tree, where it can be monitored.



As normal, the dump file and log file are located in the specified directory on the database server.

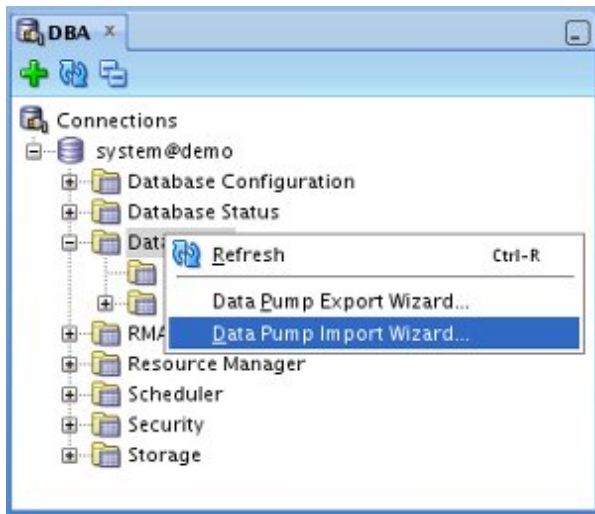
Imports (impdp)

In this section we will import the SCOTT schema, exported in the previous section, into a new user. The new user was created as follows.

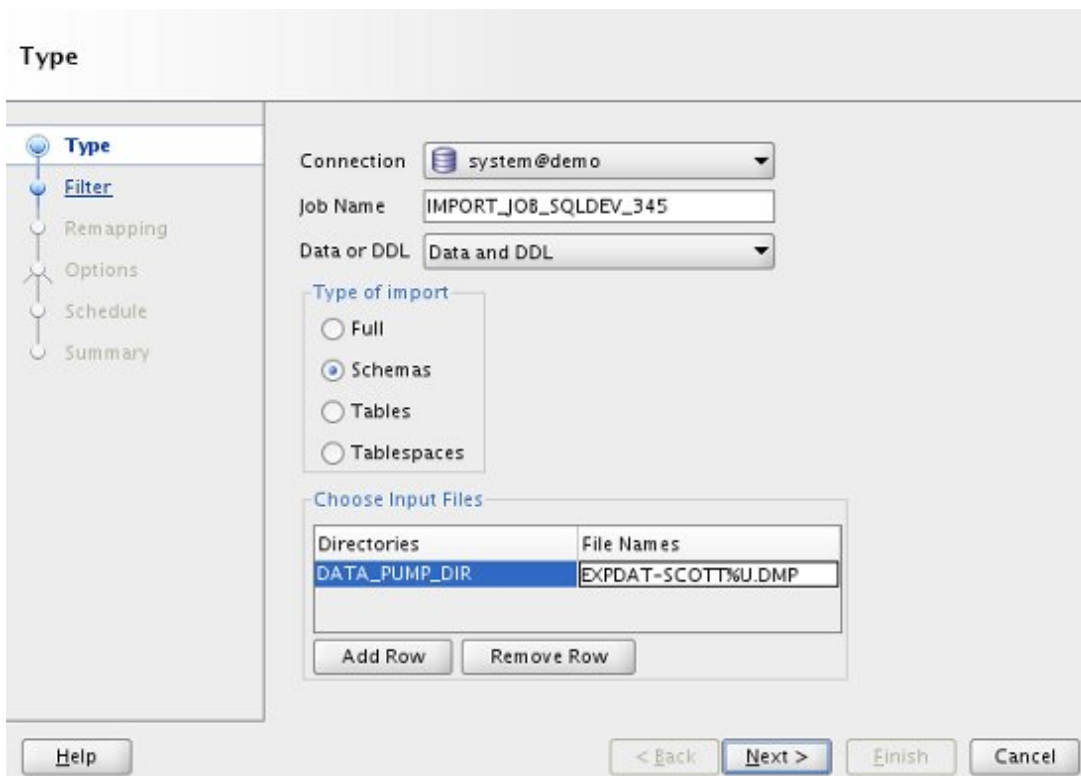
```
CREATE USER scott_copy IDENTIFIED BY scott_copy
  DEFAULT TABLESPACE users
  TEMPORARY TABLESPACE temp
  QUOTA UNLIMITED ON users;

GRANT CREATE SESSION, CREATE TABLE to scott_copy;
```

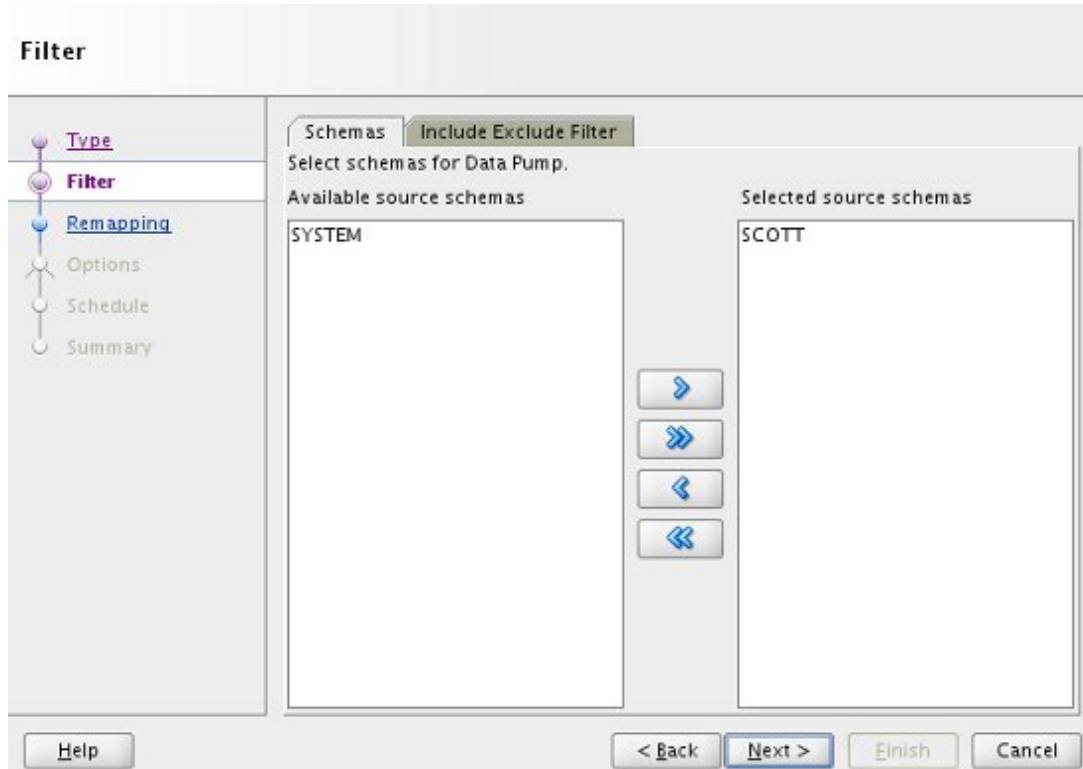
Right-click on either the "Data Pump" or "Import Jobs" tree node and select the "Data Pump Import Wizard..." menu option.



Enter the type of import you want to do and the name of the dump file that is the source of the data, then click the "Next" button.



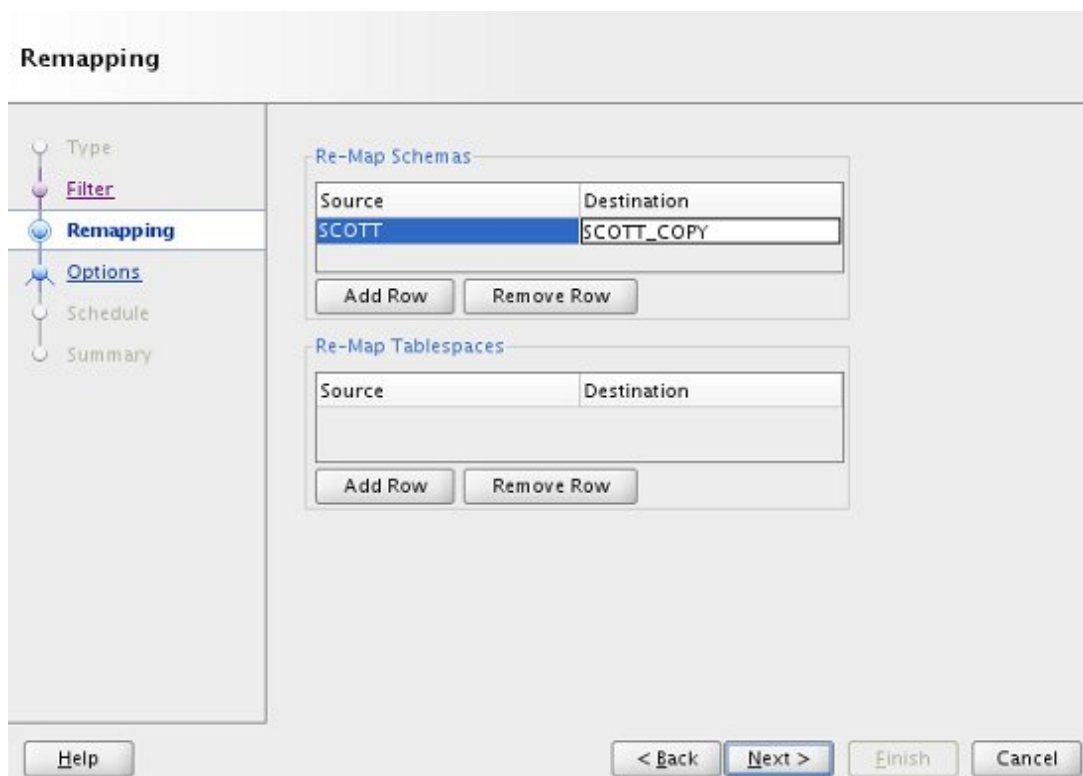
The screens that follow will vary depending on the type of import you perform. Wait for the utility to interrogate the file, then select the schema of choice. If you need any specific include/exclude filters, they can be added in the "Include Exclude Filter" tab. Click the "Next" button.



The **Filter** screen shows the **Schemas** tab selected. It contains two lists: **Available source schemas** with 'SYSTEM' and **Selected source schemas** with 'SCOTT'. Navigation buttons include '< Back', 'Next >', 'Finish', and 'Cancel'. A sidebar on the left shows the wizard steps: Type, Filter, Remapping, Options, Schedule, and Summary.

Available source schemas	Selected source schemas
SYSTEM	SCOTT

To load the data into a new schema, we need to add a `REMAP_SCHEMA` entry. Once this is done, click the "Next" button.



The **Remapping** screen has two sections: **Re-Map Schemas** and **Re-Map Tablespaces**. The **Re-Map Schemas** table has one row: Source 'SCOTT', Destination 'SCOTT_COPY'. The **Re-Map Tablespaces** table is empty. Navigation buttons at the bottom are '< Back', 'Next >', 'Finish', and 'Cancel'. The sidebar on the left highlights the **Remapping** step.

Source	Destination
SCOTT	SCOTT_COPY

Source	Destination
--------	-------------

The "Options" screen allows you to increase the parallelism of the import, name the logfile and control the action if tables or unusable indexes exist. When you have selected your specific options, click the "Next" button.

Options

Type
Filter
Remapping
Options
Schedule
Summary

Thread Number

☒ Enable Logging
Log File

☐ Action On Table If Table Exists
☐ Skip
☐ Append
☐ Truncate
☐ Replace

☐ Skip indexes that are set to the Index Unusable state

☐ Proceed to summary.

Help < Back Next > Finish Cancel

If you want to schedule the import to run at a later time, or on regular intervals, enter the details here. The default is to run the job immediately. Click the "Next" button.

Schedule

Type
Filter
Remapping
Options
Schedule
Summary

Job Parameters
Job Name:
Job Description:

Job Schedule

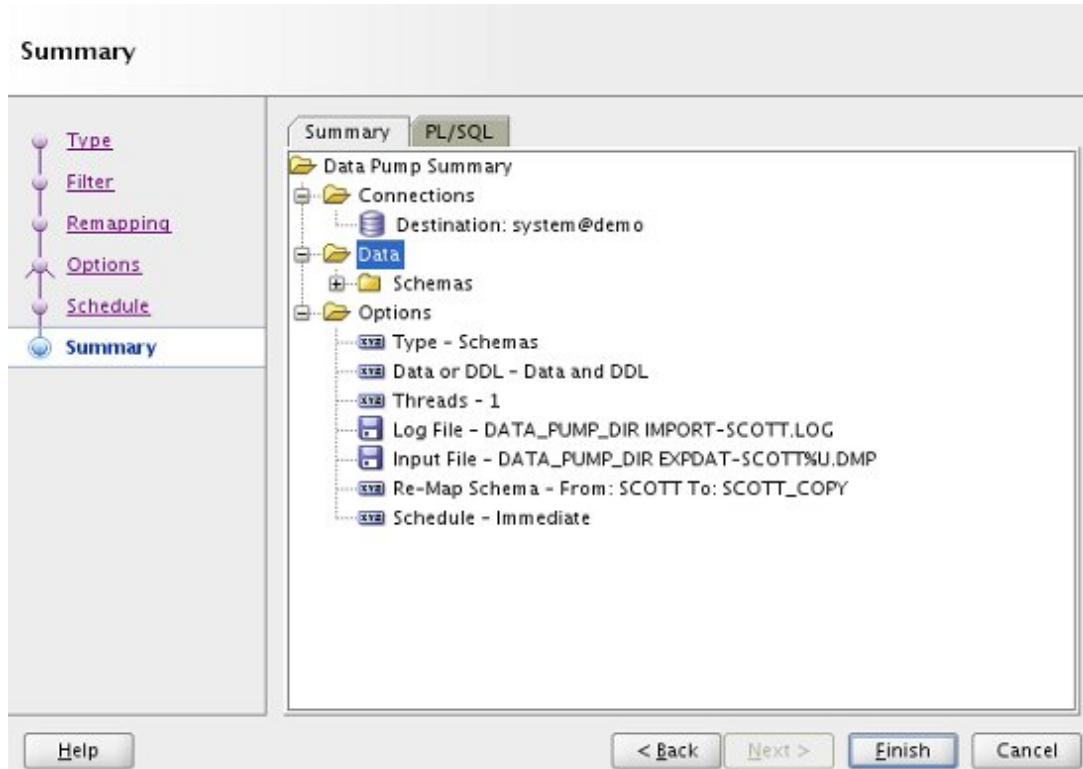
Start
☒ Immediately
☐ Later
Date

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

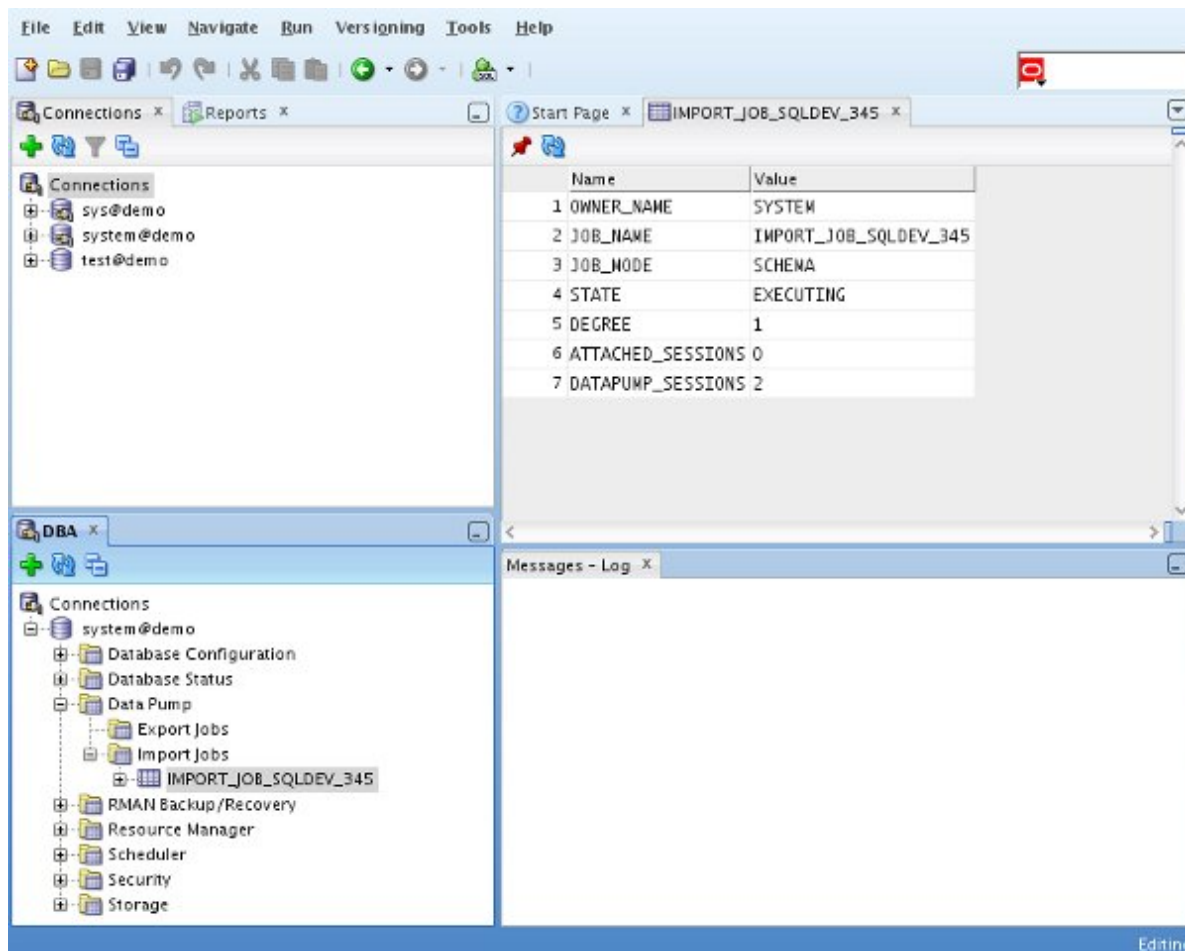
Repeat Until
☒ Indefinite
☐ Custom
Date

Help < Back Next > Finish Cancel

Check the summary information is correct. If you need to keep a copy of the job you have just defined, click on the "PL/SQL" tab to see the code. When you are ready, click the "Finish" button.



Once the job is initiated, it can be seen under the "Import Jobs" node of the tree, where it can be monitored.



As normal, the log file is located in the specified directory on the database server.

Once the import is complete, we can see the tables have been imported into the new schema.

```
SQL> SELECT table_name FROM dba_tables WHERE owner = 'SCOTT_COPY';
```

```
TABLE_NAME
```

```
-----
```

```
DEPT
```

```
EMP
```

```
SALGRADE
```

```
BONUS
```

```
4 rows selected.
```

```
SQL>
```

For more information see:

- Oracle SQL Developer User's Guide Release 3.1 (http://docs.oracle.com/cd/E25259_01/appdev.31/e24285/toc.htm)
- Oracle Data Pump in Oracle Database 10g (expdp and impdp) (</articles/10g/oracle-data-pump-10g>)
- Data Pump Enhancements in Oracle Database 11g Release 1 (</articles/11g/data-pump-enhancements-11gr1>)
- Transportable Tablespaces (</articles/misc/transportable-tablespaces>)

Hope this helps. Regards Tim...

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