

Lab 4

1) Data Pump: Export and import table data and schema using Data Pump

Processes and query along with screenshots:

- At first, connection was created to database then we run below query:

Query:

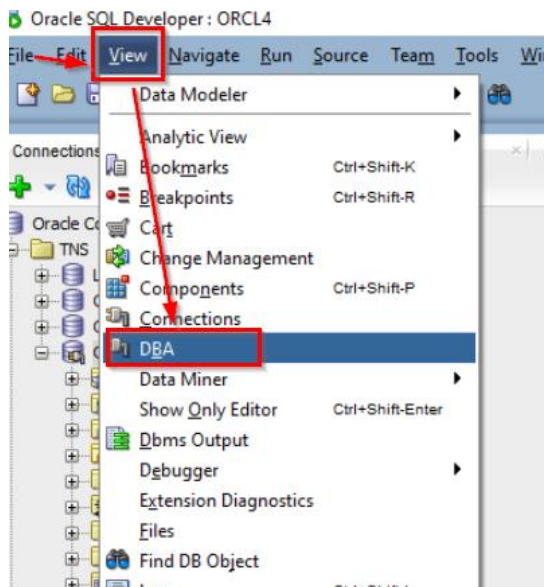
```
CREATE OR REPLACE DIRECTORY dba_backup AS  
'G:\BscCsit\sem7\DBA\DBABackup';
```

Output:

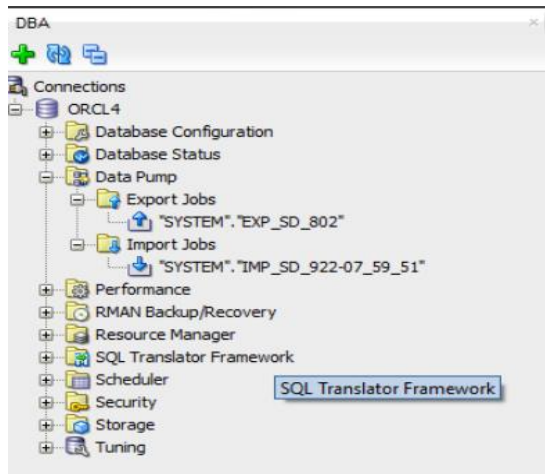
```
Directory DBA_BACKUP created.
```

To export:

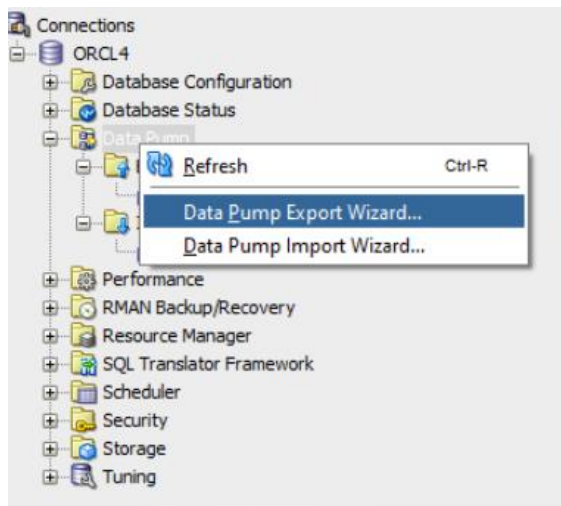
- We need to go to menu bar and press view then DBA as show in screenshot below:



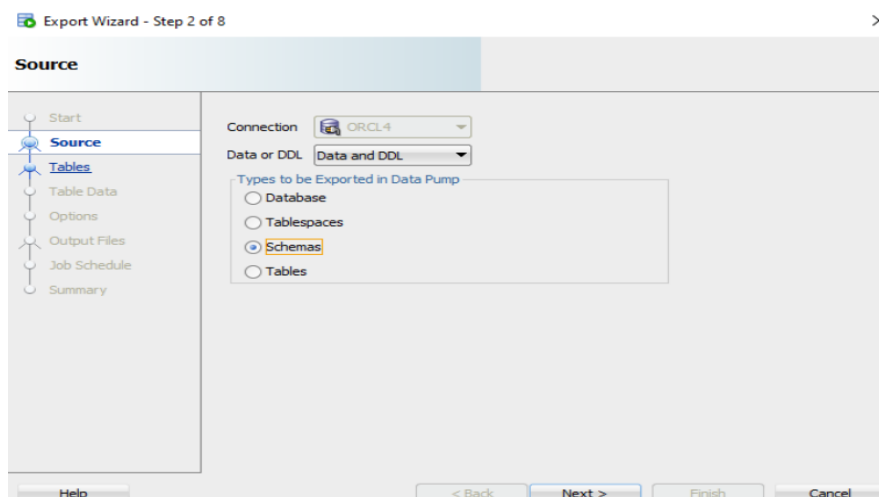
- We can see DBA on left end corner of screen and new Connection was selected and connection to our database was made and we can expand it where we can find Data Pump as in screenshot below:



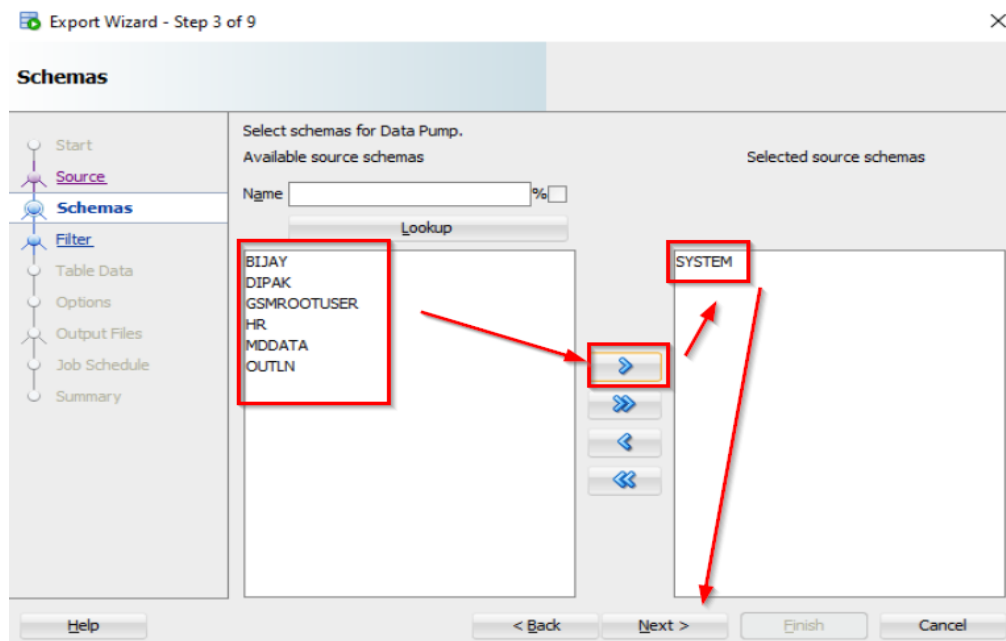
- Right click Data Pump folder gives us option as show in screenshot below:



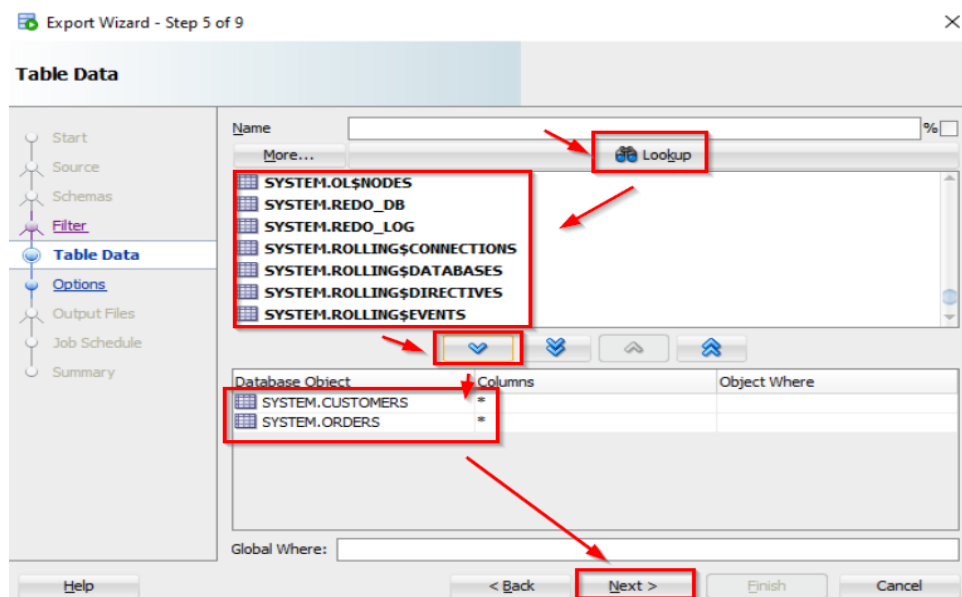
- To export data we need to select and click Data Pump Export Wizard. On click it we get below screen:



- To export schemas we select Schemas and to export tables we select Tables and rest of the step is same for all step. We can also set Data or DDL to prefer option, which in our case we set it to Data and DDL and click next.
- In next step, we click lookup to select schemas/tables and select the preferred one from Available source schemas/tables and send it to Selected source schemas/tables as below and click next:



- In next step, we lookup the table data and select the table, schemas and so on to export and click next



- In next step, we select the log file in which we are trying to export the data and the click next

Export Wizard - Step 6 of 9

Options

Thread Number: 1

Estimate: Blocks Calculate (Not Calculated yet)

☒ Enable Logging

Log File: DBA_BACKUP EXPDAT.LOG

☐ Export read-consistent view of data

By SCN ☒ By Date ☐

VERSION: COMPATIBLE

☐ Delete Master table

Help < Back Next > Finish Cancel

- In next step, we select the directories with same name as above step and click necessary file actions then click next

Export Wizard - Step 7 of 9

Output Files

Choose Output Files

Directories	File Names	Size (M)
DBA_BACKUP	EXPDAT%U.DMP	

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

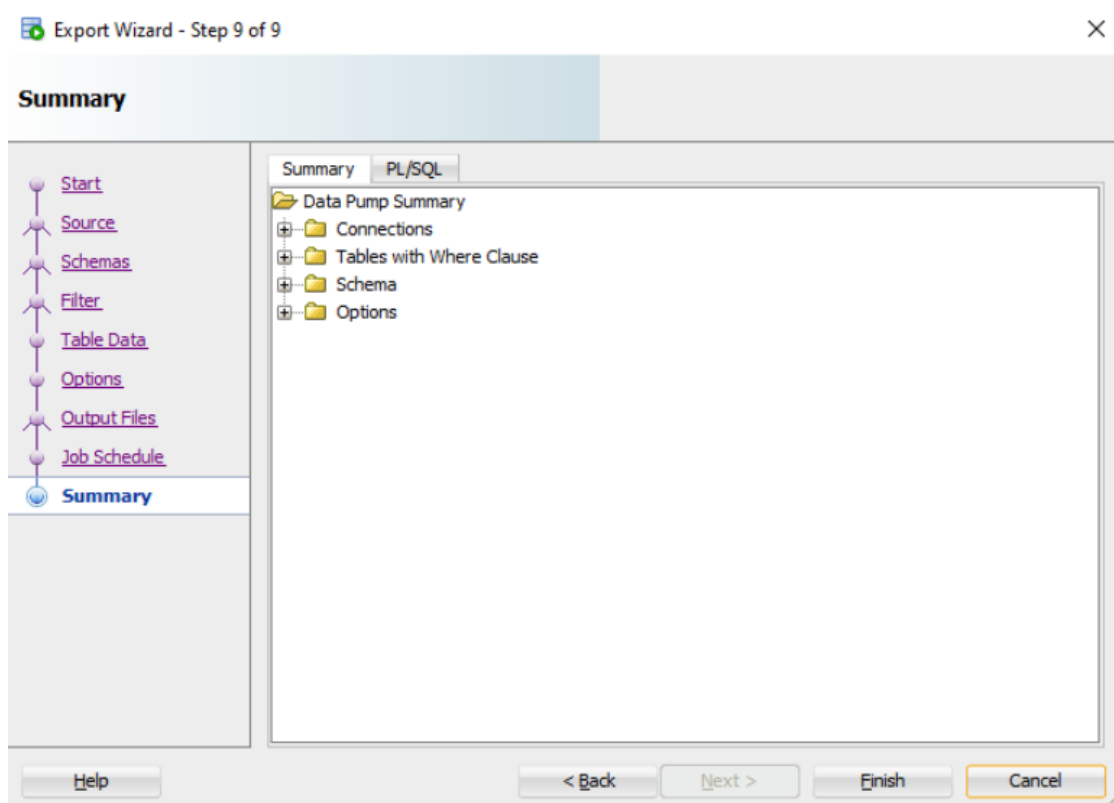
☐ Oracle Directory path override: DBA\admin\orcl\dpdump/

Data Pump Export Job Name: EXP_SD_1164

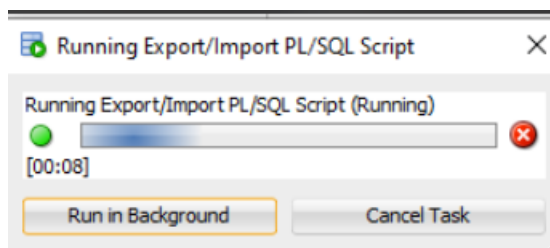
☐ Proceed to summary.

Help < Back Next > Finish Cancel

- For last 2 step we can simply click next without changing any field and then finish



- On clicking finish, we will get follow popup in screen

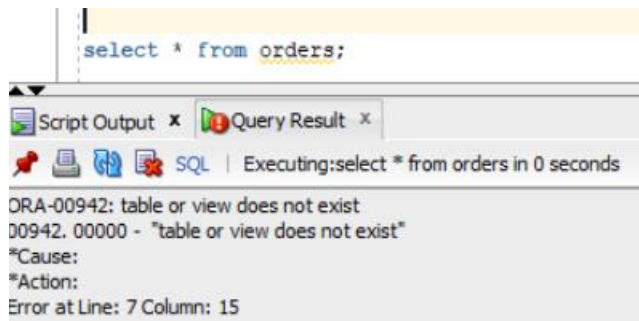


- When we go to our folder (i.e. 'G:\BscCsit\sem7\DBA\DBABackup'), we can see our export or backup

Local Disk (G:) > BscCsit > sem7 > DBA > DBABackup

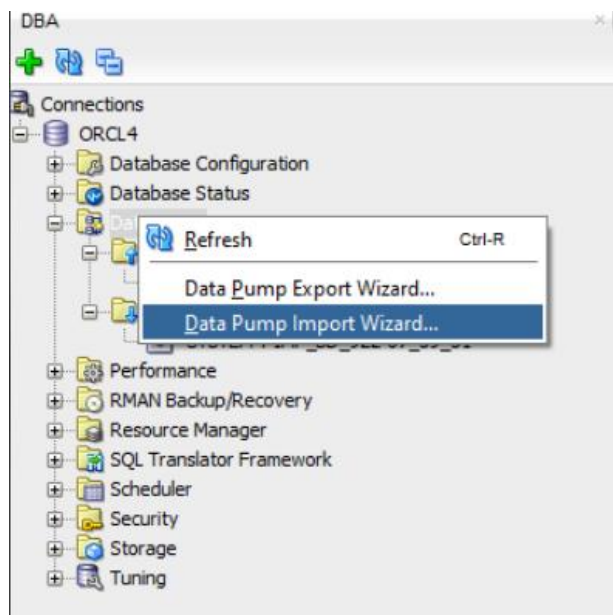
Name	Date modified	Type	Size
EXPDAT01-11_49_04.DMP	12/12/2021 11:50 AM	Memory Dump File	60 KB
EXPDAT-11_49_03	12/12/2021 11:51 AM	Text Document	1 KB

Suppose we drop Orders table from our database and we like to get it back using our export file then we can perform import operation.

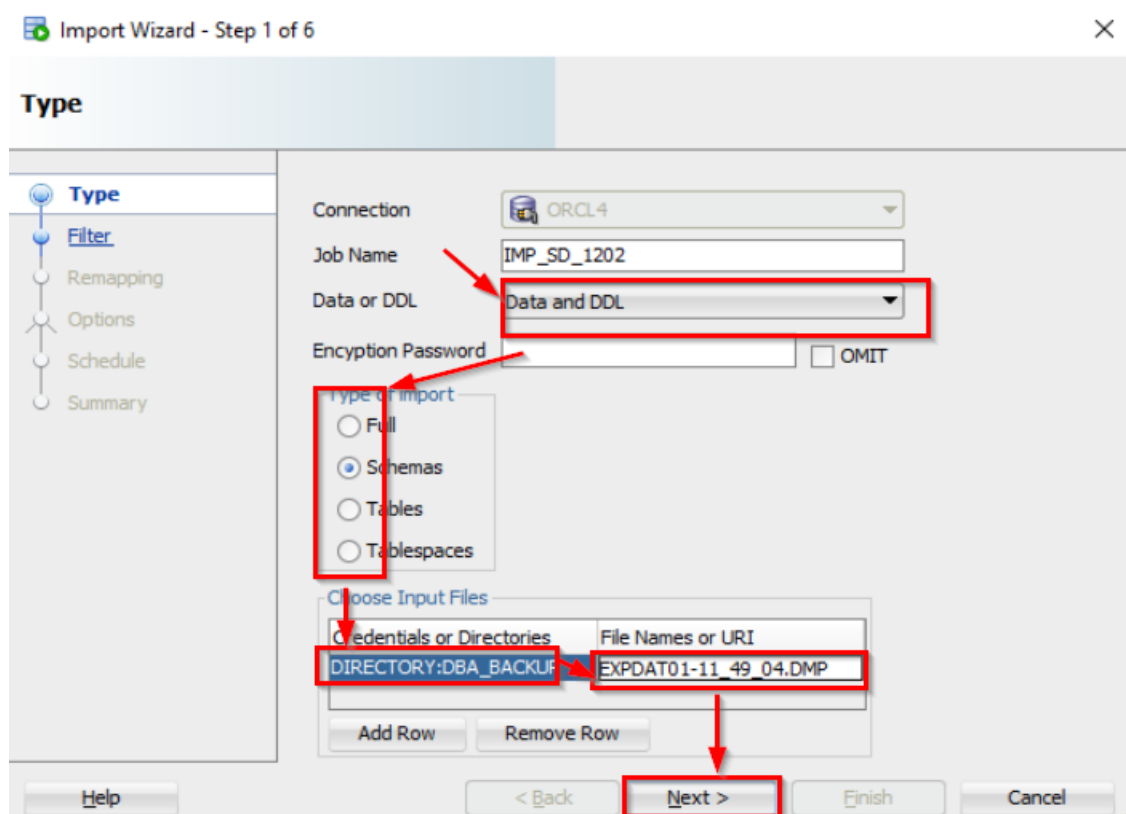


To import:

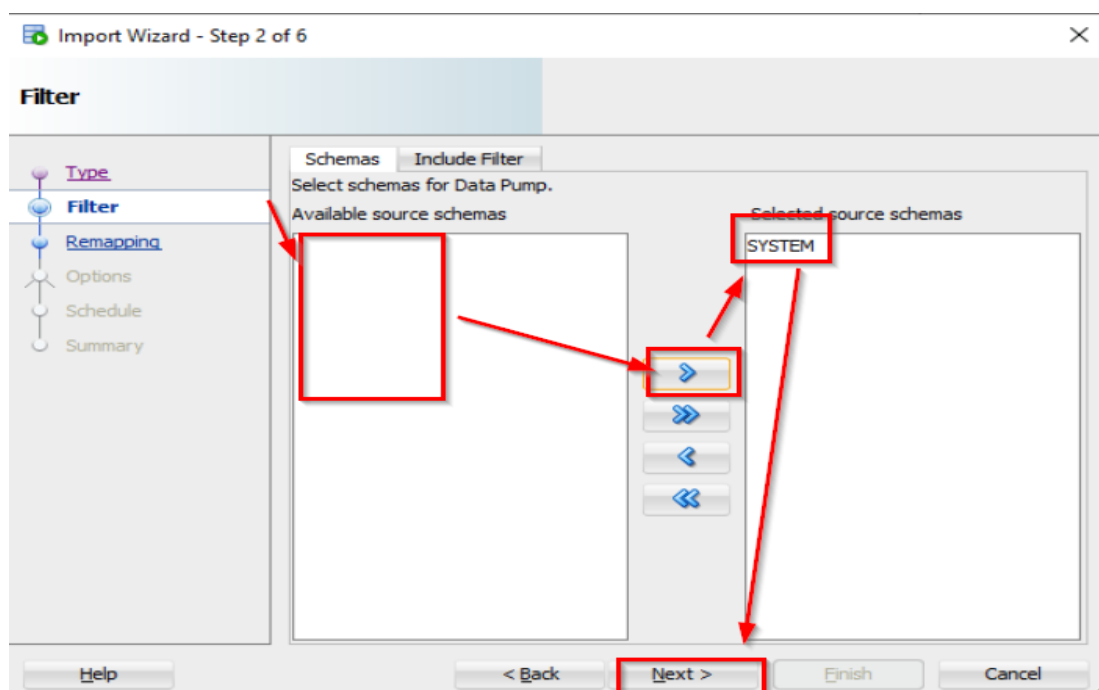
- Same as in export, from connection we right click Data Pump and click Data Pump Import Wizard



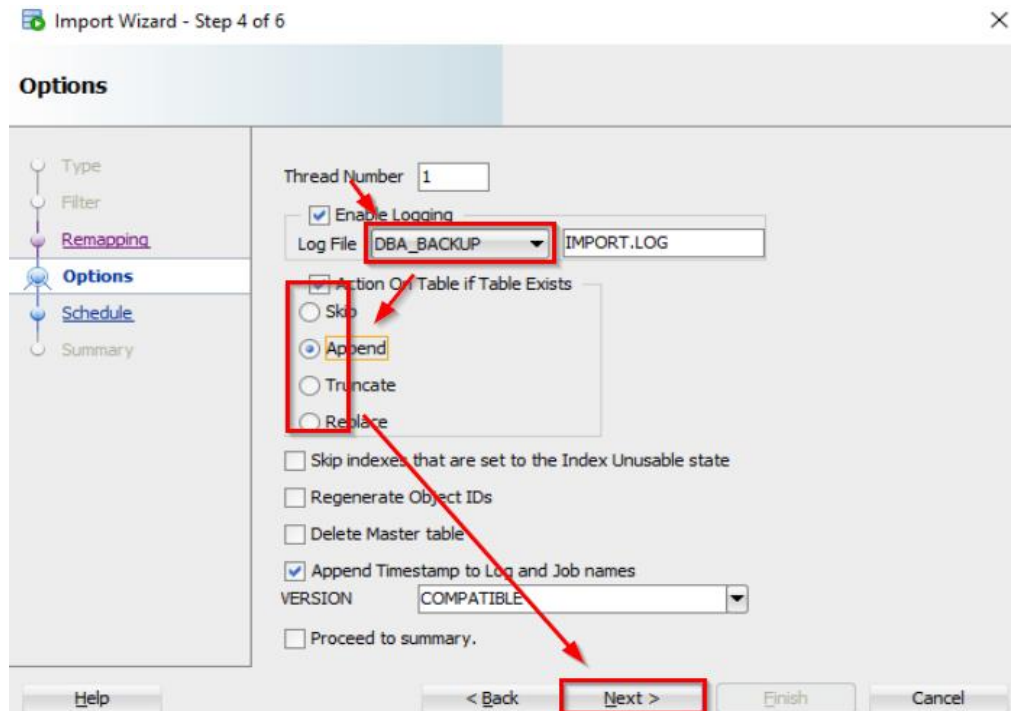
- Same as in export, to import schemas we select schemas and to import tables we select tables along with preferred Data or DDL and then select directory on which we had exported our data and we copy the dump file name from the location where we had exported our data (i.e. 'G:\BscCsit\sem7\DBA\DBABackup') and paste it in file names or URI section and click next



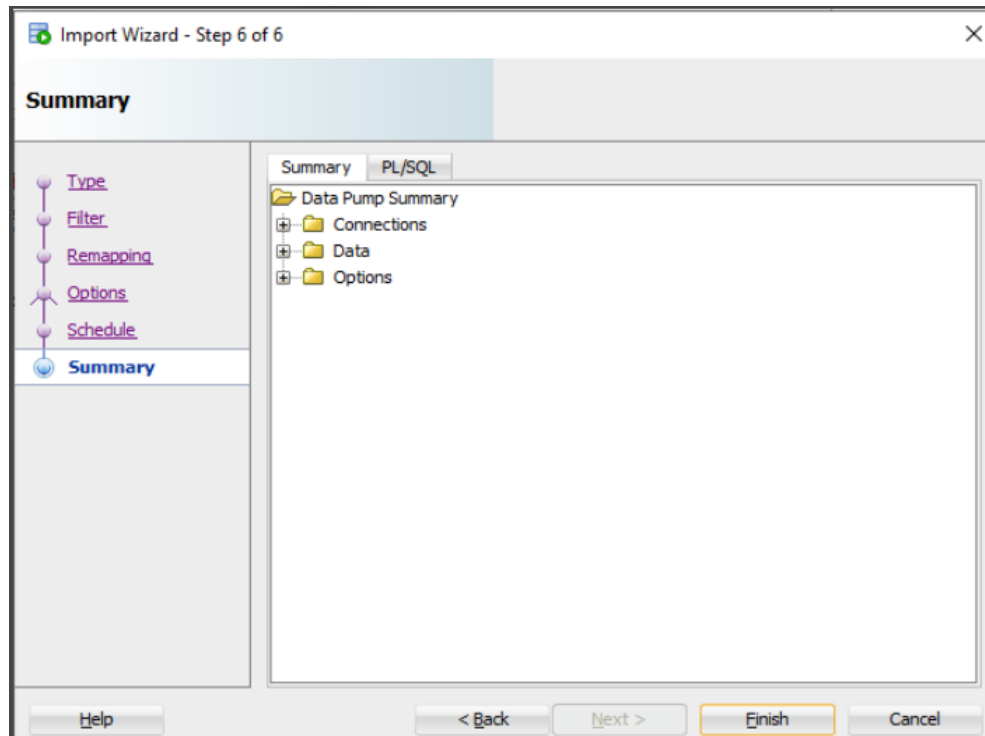
- We select Available source schemas and pass it to Selected source schemas and then click next



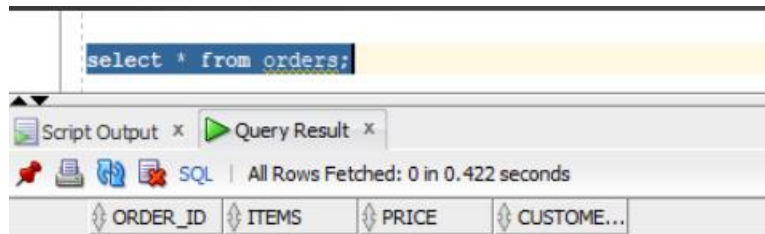
- In next step, we do not need to change anything so simply click next step and in next step we select the log file on which we had exported data and select necessary action on table (in this case as we had deleted orders table so to get order tables we append it) and click next.



- We do not need to change anything in next two step simply click next and then finish.



- Now the orders table as well as all other data in export file is being appended to our database. When we run `SELECT * FROM orders;` query we are able to get orders table but initially we were getting an error.



To drop backup directory

Query:

```
DROP DIRECTORY dba_backup;
```

Output:

```
Directory DBA_BACKUP dropped.
```

Conclusion and Discussion:

Hence, we are able to create backup directory using sqlconnector and able to import and export table data and schemas using data pump.