

## Creating Reports in Oracle SQL Developer 4.0

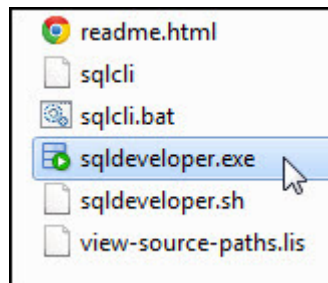
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Overview

Setting up the Environment

In this section, you set up the users and connections for the tutorial.

1. Double-click on `sqldeveloper.exe` to launch SQL Developer.



2. In the connections window, click **New Connection**.



3. In the New / Select Database Connection dialog box, provide the following entries:

Name: **HR**  
Username: **hr**  
Password: *Enter the password for your system.*  
Save Password: *Select this check box*  
Connection Type: **Basic**  
Role: **default**  
Hostname: **localhost**  
Port: **1521**  
SID or Service Name: *Enter SID or Service Name*

4. Your screen should look similar to this:

**New / Select Database Connection**

Connection Name:

Username:

Password:

☒ Save Password  Connection Color

**Oracle**

Connection Type:  Role:

Hostname:

Port:

☒ SID:

☐ Service name:

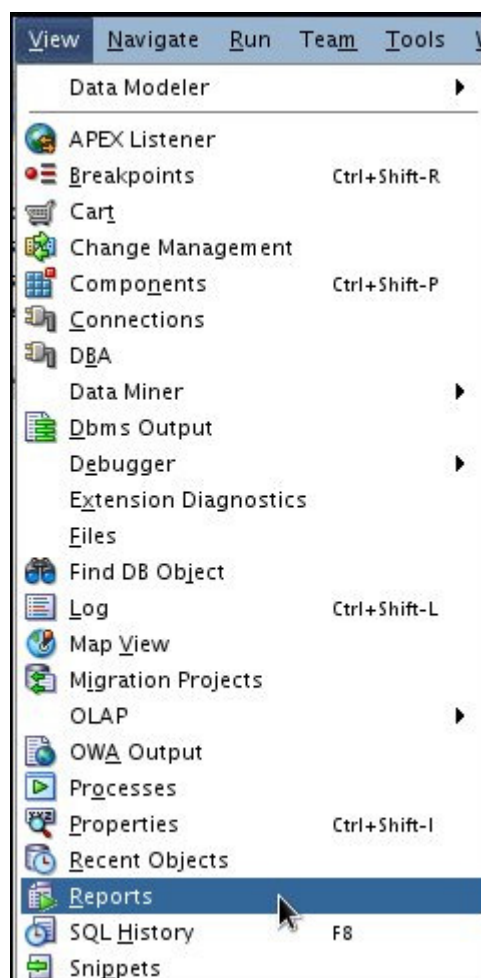
☐ OS Authentication ☐ Kerberos Authentication ☐ Proxy Connection

5. Click **Test** then **Connect** to create the connection. The new connection will appear on the Connection Navigator.

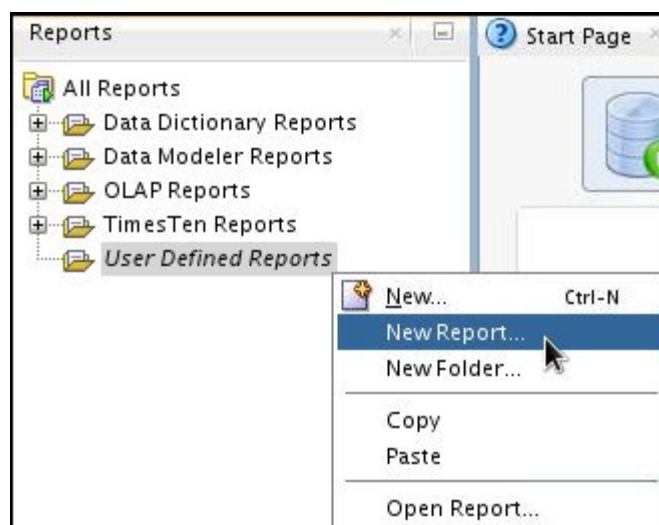
### Creating a Report

In this section, you create a report that displays information from the Departments table of the HR schema.

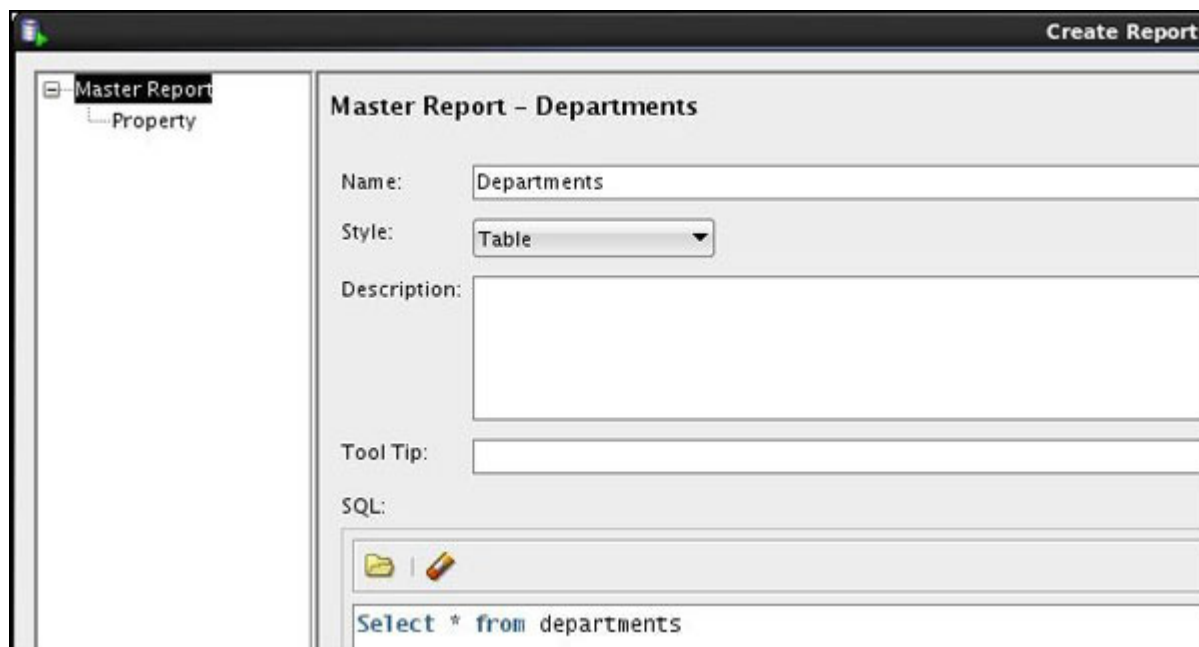
1. Click **View**, then **Reports**.



2. Reports Navigator is displayed. Right-click **User Defined Reports** and select **New Report**.



3. For the Master Report name, enter **Departments**.
4. For the style, select **Table**.
5. In the SQL text box, enter **Select \* from departments**. Your screen should look like this:



6. Click **Apply**.



7. The Departments report is added to the User Defined Reports tree.



8. Click **Departments** to open the report.

9. Select **hr\_connection**, then click **OK**.



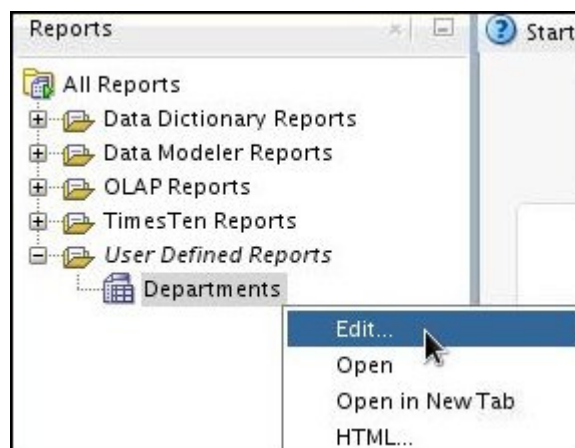
10. The Departments report is displayed.

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
1	10 Administration	200	1700
2	20 Marketing	201	1800
3	30 Purchasing	114	1700
4	40 Human Resources	203	2400
5	50 Shipping	121	1500
6	60 IT	103	1400
7	70 Public Relations	204	2700
8	80 Sales	145	2500
9	90 Executive	100	1700
10	100 Finance	108	1700
11	110 Accounting	205	1700
12	120 Treasury	(null)	1700

### Adding a Child Report

You can create a child report (Employees) by editing the master report (Departments).

1. In the Reports Navigator under User Defined Reports, right-click **Departments** and click **Edit**.



2. Click **Add Child**.

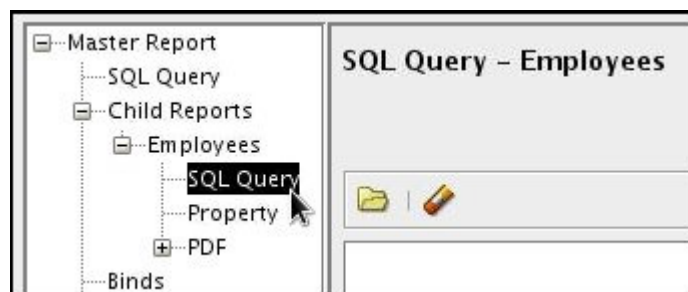


3. The Add Child Report dialog box is displayed. Enter the child report name, **Employees**, then click **OK**.

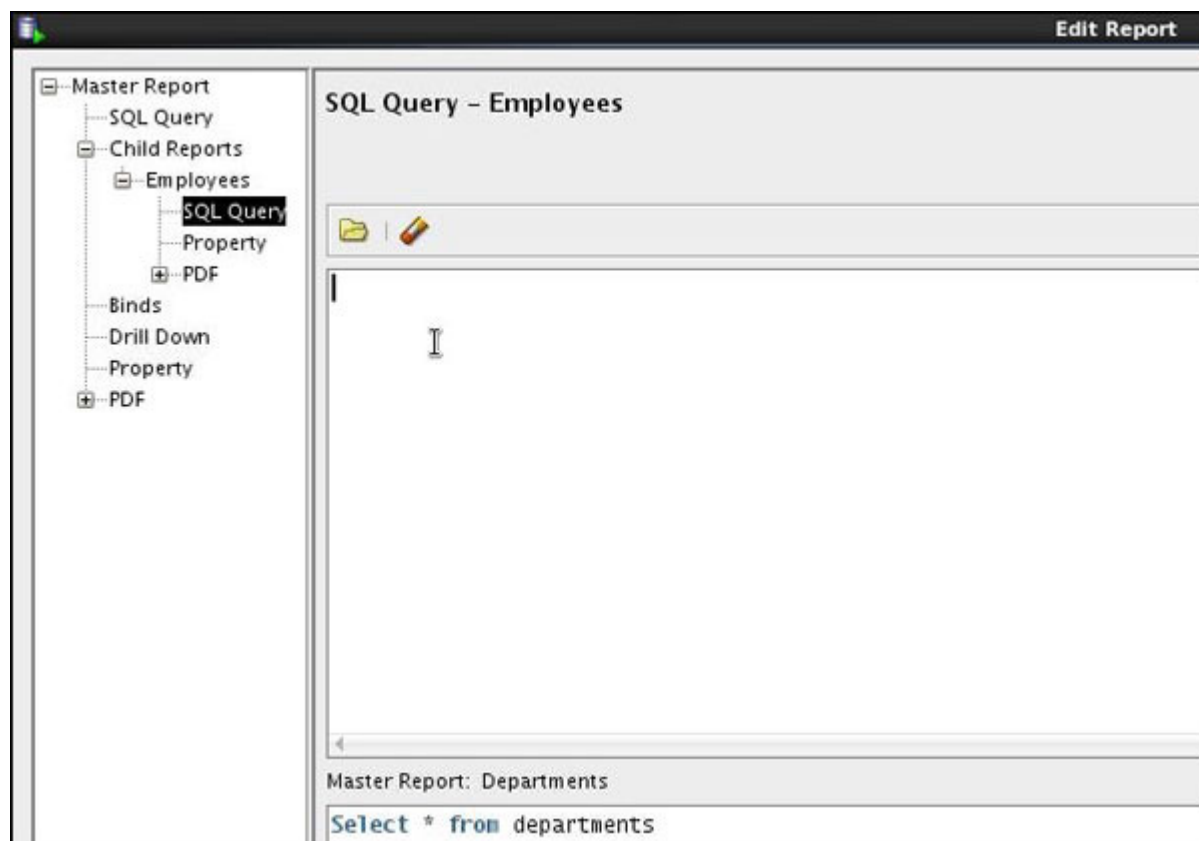




5. Click **SQL Query**.



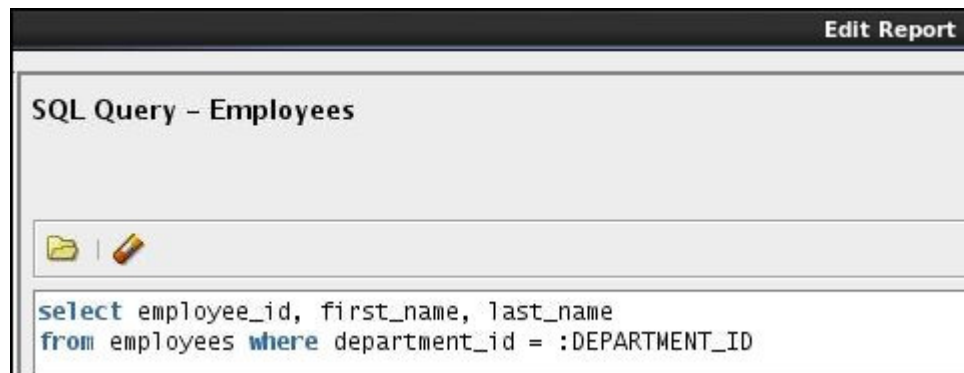
The Edit Report dialog box is displayed.



6. In the SQL Query - Employees text box, enter the following query:

```
select employee_id, first_name, last_name
from employees where department_id = :DEPARTMENT_ID
```

Your screen should look like this:



7. Click **Apply**.



A skeleton child report (Employees) is displayed below the parent report (Departments).

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
1	10 Administration		200
2	20 Marketing		201
3	30 Purchasing		114
4	40 Human Resources		203
5	50 Shipping		121
6	60 IT		103
7	70 Public Relations		204
8	80 Sales		145
9	90 Executive		100
10	100 Finance		108
11	110 Accounting		205
12	120 Treasury	(null)	1700
13	130 Corporate Tax	(null)	1700
14	140 Control And Credit	(null)	1700
15	150 Shareholder Services	(null)	1700
16	160 Benefits	(null)	1700

EMPLOYEE_ID	FIRST_NAME	LAST_NAME
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8. Click **DEPARTMENT\_ID 30** to produce an Employees report for the Purchasing department.

DEPARTMENT_ID	DEPARTMENT_NAME
1	10 Administration
2	20 Marketing
3	30 Purchasing
4	40 Human Resources

A list of employees for Department 30 is displayed in the bottom panel.

The screenshot shows the SQL Developer interface with two tables displayed. The top table is 'Departments' and the bottom table is 'Employees'.

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
1	10 Administration	200	1700
2	20 Marketing	201	1800
3	30 Purchasing	114	1700
4	40 Human Resources	203	2400
5	50 Shipping	121	1500
6	60 IT	103	1400
7	70 Public Relations	204	2700
8	80 Sales	145	2500
9	90 Executive	100	1700
10	100 Finance	108	1700
11	110 Accounting	205	1700
12	120 Treasury	(null)	1700
13	130 Corporate Tax	(null)	1700
14	140 Control And Credit	(null)	1700
15	150 Shareholder Services	(null)	1700
16	160 Benefits	(null)	1700

EMPLOYEE_ID	FIRST_NAME	LAST_NAME
1	114 Den	Raphaely
2	115 Alexander	Khoo
3	116 Shelley	Baida
4	117 Sigal	Tobias
5	118 Guy	Himuro
6	119 Karen	Colmenares

### Generating a PDF Report

You can use SQL Developer to create PDF versions of your reports and add password protection for PDF reports that contain sensitive data.

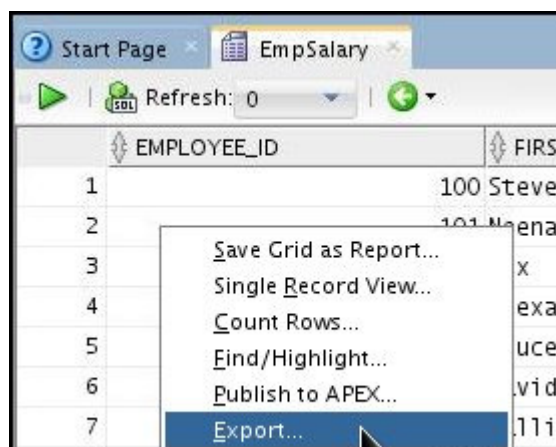
## Preparation: Creating a SQL Developer Report with Sensitive Data

### Setting PDF Report Options

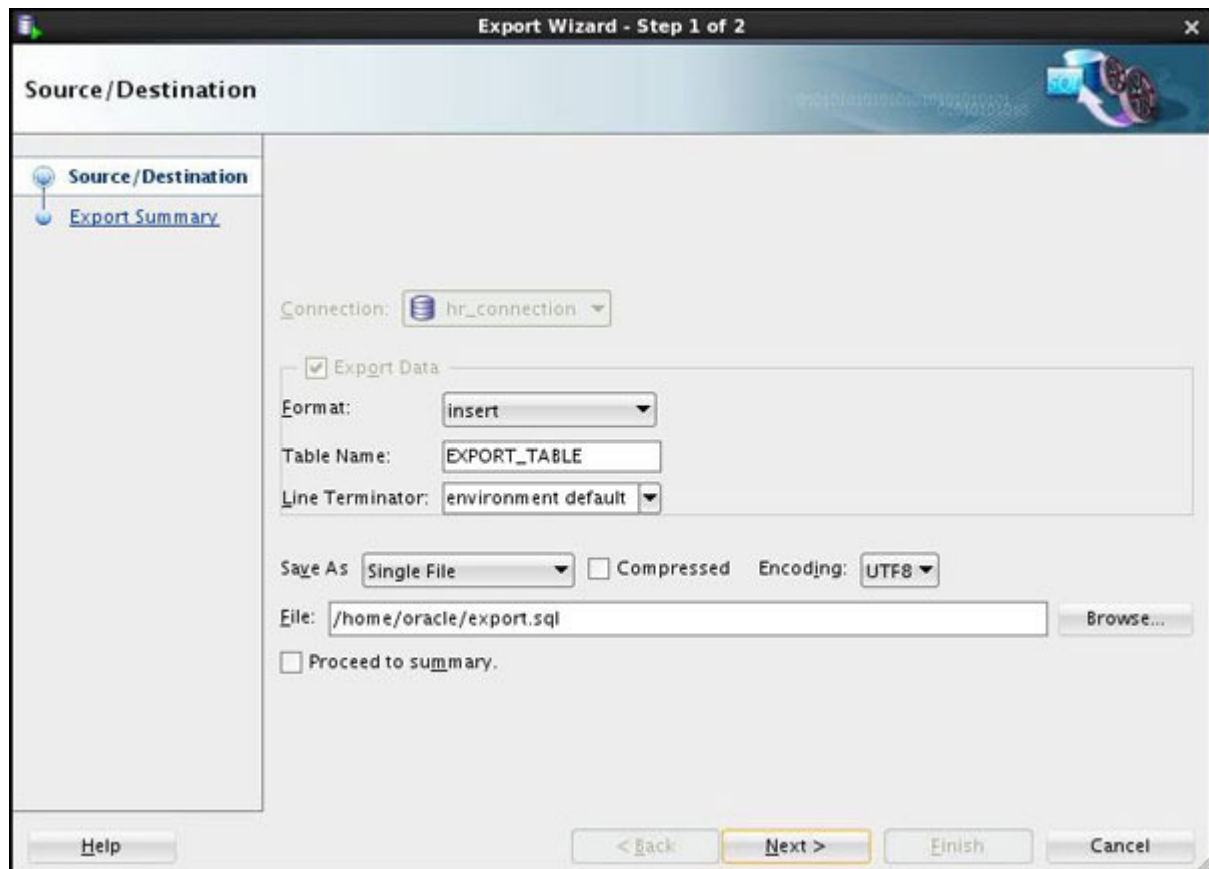
### Exporting to PDF

When a report is open, you can export it into PDF format. Export the EmpSalary report from SQL Developer to produce a PDF report.

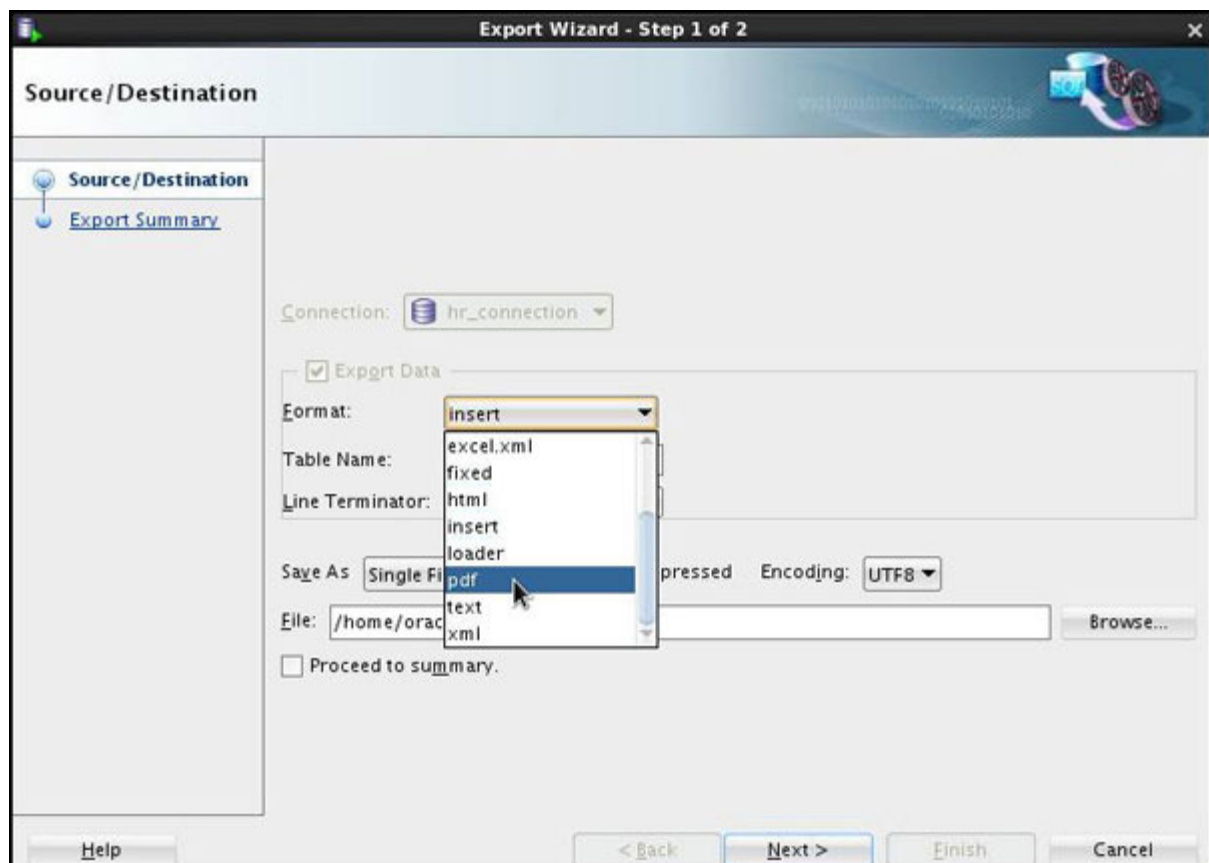
1. Right-click inside the EmpSalary report and select **Export**.







2. For the format, select **pdf**.



3. **Optional:** Provide title, subject, and keywords to comply with your company's document policies (not required for PDF report generation).

Export Wizard - Step 1 of 2

Source/Destination

Source/Destination

Export Summary

Connection: hr\_connection

☒ Export Data

Format: pdf

Title:

Subject:

Keywords:

Save As: Single File ☐ Compressed Encoding: UTF8

File: /home/oracle/export.pdf Browse...

☐ Proceed to summary.

Help < Back Next > Finish Cancel

&gt;

4. Locate the File text box.

File: /home/oracle/export.pdf

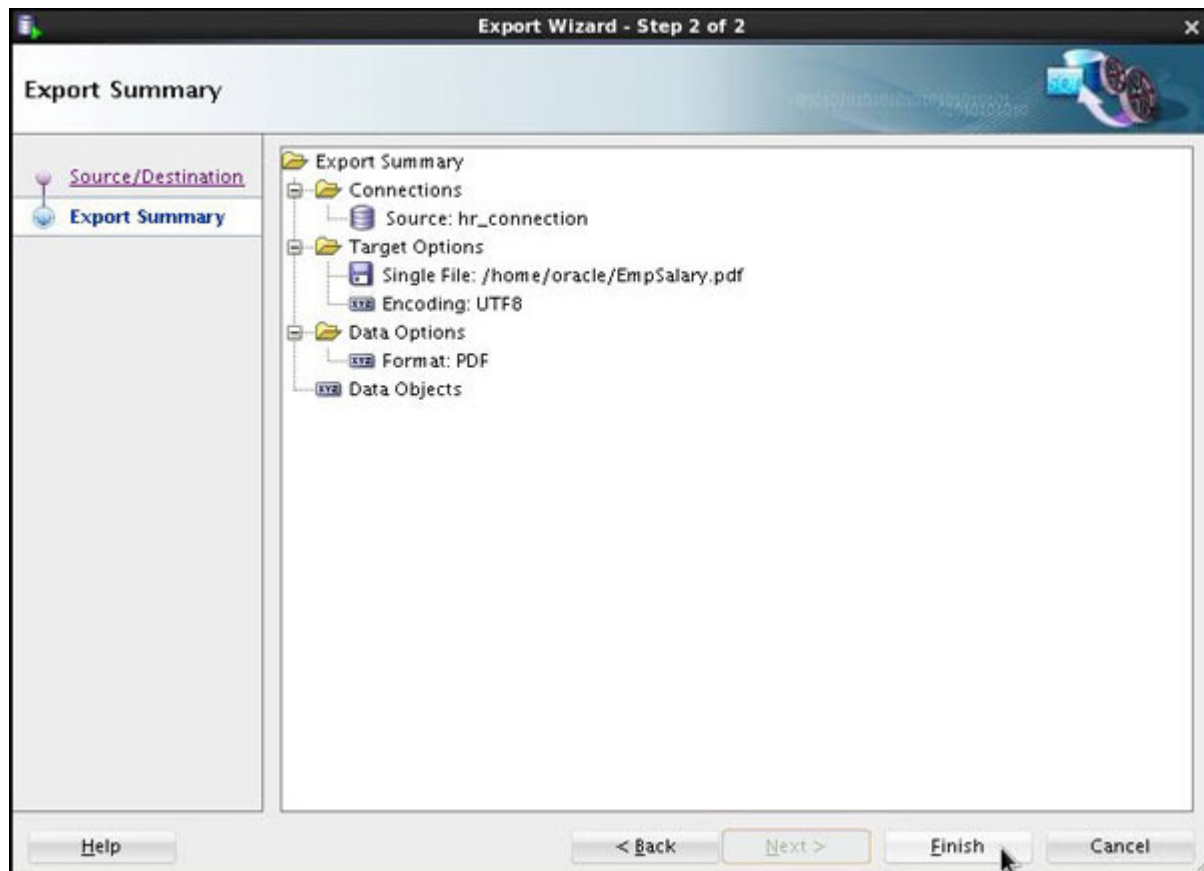
5. Change the file name from **export** to **EmpSalary**.

File: /home/oracle/EmpSalary.pdf

6. Click **Next**.

< Back Next > Finish Cancel

7. In the Export Summary, confirm your selections, then click **Finish**.



&gt;

8. The "Salary by Employee ID" report should look like this:

EMPLOYEE ID	FIRST NAME	LAST NAME	JOB ID	SALARY
100	Steven	King	AD_PRES	24000
101	Neena	Kochhar	AD_VP	17000
102	Lex	De Haan	AD_VP	17000
103	Alexander	Hunold	IT_PROG	9000
104	Bruce	Ernst	IT_PROG	6000
105	David	Austin	IT_PROG	4800
106	Valli	Pataballa	IT_PROG	4800
107	Diana	Lorentz	IT_PROG	4200
108	Nancy	Greenberg	FI_MGR	12008
109	Daniel	Faviet	FI_ACCOUNT	9000
110	John	Chen	FI_ACCOUNT	8200
111	Ismael	Sciarra	FI_ACCOUNT	7700
112	Jose Manuel	Urman	FI_ACCOUNT	7800
113	Luis	Popp	FI_ACCOUNT	6900
114	Den	Raphaely	PU_MAN	11000
115	Alexander	Khao	PU_CLERK	3100
116	Shelli	Baida	PU_CLERK	2900
117	Sigal	Tobias	PU_CLERK	2800
118	Guy	Himuro	PU_CLERK	2600
119	Karen	Colmenares	PU_CLERK	2500
120	Matthew	Weiss	ST_MAN	8000
121	Adam	Fripp	ST_MAN	8200
122	Pavam	Kauffman	ST_MAN	7900
123	Shanta	Vollman	ST_MAN	6500
124	Kevin	Mourgos	ST_MAN	5800
125	Julia	Nayer	ST_CLERK	3200

7/24/2013 7:33 PM Page 1

Adding Password Protection

Summary