AMIS

Reports Bursting

Ever had someone ask you:"I have this report that I need to email or print to file. I have to run this report multiple times with only one parameter changing. Isn't there an easier way to perform this?".

In the past I would always propose one of the following solutions:

- Create a batch job that submits your reports to the Oracle Report server
- Create a dummy report that fires the other reports using srw.run_report in the after reports trigger for a client server environment.

In fact a much more elegant solution is available since Oracle Reports 6 called Reports Bursting.

Reports bursting offers you to deliver a single report to multiple destinations simultaneously. It offers you to create multiple reports out of one single report model.

For example, you can create just one employee report for all your departments and send an email with a PDF-attachment containing the report to each manager. Each report would contain only the relevant department information for that particular manager. Using the reports bursting functionality will reduce the overhead since you will only have a single data fetch and report format.

In the following example you will create a master-detail report to burst each section to a separate report. The report will be based on the demo table EMP and it will generate three different files. The first file will include department 10 information, the second will include department 20, and the third will include department 30.

1. Create a simple dept-emp master-detail report based the Scott.Emp table. There is a break on the deptno column in the Data Model:



🚰 MODULE1: Report Editor - Data Model			_0
		Page:	
R R			
	SQL Query Statement		
	0	[]	Current
SOL MAL	Query Builder SQL Query Statement:	Import SQL Query	Connect
C_DEPTNO Iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	SELECT EMPNO, ENAM	E, JOB, DEPTNO	<u>~</u>
	in the state of the		
G_EMPNO 789 ← EMPNO			
A + ENAME			
A]≁ JOB			*
	<u>о</u> к	Cancel	Help

2. To segregate information of each department on a separate page, you should set the 'Repeat On' property in the Main section on G_DEPTNO (master group):

amis

••

File Edit View Insert Format Layout Pr	rogram Tools Window Help	
Main Section	Property Inspector	× □ - > >> >>
 Reports MODULE1 Data Model Web Source Paper Layout Paper Layout Header Section Main Section Trailer Section Paper Parameter Form Report Triggers Program Units Attached Libraries PL/SQL Libraries Debug Actions Stack Built-in Packages 	Layout:Main Section Section Width	8.5
	 Width Height Horizontal Panels per Page 	11
	 Vertical Panels per Page Orientation 	1 Default
	DistributionRepeat On	G_DEPTNO
	Character Mode Report Width	80
	Report Height	66
. E ··· Database Objects		

- 3. Since you plan to repeat on the Master group G_DEPTNO, you need to delete the Repeating Frame surrounding the Master group in the Layout (called by default R_G_DEPTNO).
- 4. Open the distribution list dialog box, and enter a unique distribution ID and set DESNAME to "reportname&<deptno>.HTML":



	<mark>週 Reports Builder</mark> File Edit View Insert Format Layout Program Tools Window Help				
	S CONTRACTOR OF STREET				
	8 🗅 🔁	🄊 X 🗅 🛱	P @ 1 18 18 ?		
📰 Ob	ject Navigator		Property Inspector		
Mai	n Section	▼ Find:	🖻 🖃 📄 🖉 🗗 Find:	»» »	
+	Reports MODULE1		Layout:Main Section		
×		ata Model	= Section		
		/eb Source	Width	8.5	
•	🖻 – 🛃 Pa	aper Layout	Height	11	
		Header Section	Horizontal Panels per Page	1	
Ð		Main Section	Vertical Panels per Page	1	
đ		Trailer Section	Orientation	Default	
С.	⊡ ··· Repo	rt Triggers	Distribution		
		ram Units ched Libraries	Repeat On	G_DEPTNO	
	🗅 – Templates			×	1
	Debug Acl				
	Stack Stack	Distribution List: Distribution II	D DESNAME	DESTYPE DESFORMAT COPIES	
	⊞ Built-in Pa ∃ Database	1	c:\temp\reportname& <deptno>File</deptno>		
				<u> </u>	
		Enter the unique Distrib	bution ID and destination values to set the d	distribution item	
		C Settings:			
		Distribution ID:			
		DES <u>N</u> AME:	:\temp\reportname& <deptno>.HT</deptno>	DESTYPE: File	
2		DESEORMAT: H	ITML 👻	COPIES: 1	
_		New 1		OK Cancel Help	
		New	Remove Remove all (OK Cancel Help	

......

Using the parameter &<deptno> will have effect on the naming of the filename. It will be changed according to the value of deptno in your report.

5. From the Object Navigator, click on File-> Distribute. A message will display:

Report Buil	der	X
<u>.</u>	Warning: Report will run to multiple destinations. Continue?	

6. Select "Ok", then another message will display:



Report Buil	der	×
i	Distribution completed successfully	
	ŌK	

There are now three different files generated on c:\temp

- reportname 10.html
- reportname 20.html
- reportname 30.html

Each of them should include just the information related to the specific department it was bursted.

Conclusion

- Bursting your report offers you the possibility to run one report resulting in the creation of several reports.
- A fetch of the data is performed only once compared to running several times the same report with only one different input parameter.
- The formatting of the layout is performed only once.

Overall reports bursting is an elegant solution and worthwhile considering as an option for firing multiple times the same report with as only difference one input parameter.