



## Exercise Two

2.1 The file c:\course\ex2.1.sql contains sql which produces the following output ....

<i>ED_ID_NO</i>	<i>ED_EMPLOYEE_NAME</i>	<i>ED_EMPLOYEE_SECTION_NUM</i>	<i>ED</i>	<i>ED_EMPLOYEE_LOCATION_ID</i>	<i>ED_EMPLOYEE_</i>
501	STUART ATKINS	1	M	5	JOSH JACOBS
502	SIMON BALL	2	M	5	STUART ATKINS
503	SAMANTHA POTTS	4	F	5	SIMON BALL
504	JERRY SWINGER	6	M	5	SIMON BALL
505	AMY LEWIS	8	F	5	SIMON BALL
506	OWEN DAVIES	2	M	13	STUART ATKINS

2.2 Using column formats run the sql again to produce the following headings ...

<i>Id Name</i>	<i>Section Ge</i>	<i>Location</i>	<i>Manager</i>
501 STUART ATKINS	1 M	5	JOSH JACOBS
502 SIMON BALL	2 M	5	STUART ATKINS
503 SAMANTHA POTTS	4 F	5	SIMON BALL
504 JERRY SWINGER	6 M	5	SIMON BALL
505 AMY LEWIS	8 F	5	SIMON BALL
506 OWEN DAVIES	2 M	13	STUART ATKINS
507 RHIAN PAINTER	4 F	13	OWEN DAVIES
509 CORRIE LANE	7 M	13	RHIAN PAINTER



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2.3 In the previous output the Gender column heading is truncated, amend the column setting with the format to make the output wide enough to display the whole title, at the same time, left justify the ed\_id\_no, ed\_employee\_section\_num and ed\_employee\_id columns using the to\_char function in the sql and make the ed\_employee\_name and ed\_employee\_manager columns smaller.

<i>Id</i>	<i>Name</i>	<i>Section</i>	<i>Gender</i>	<i>Location</i>	<i>Manager</i>
501	STUART ATKINS	1	M	5	JOSH JACOBS
502	SIMON BALL	2	M	5	STUART ATKINS
503	SAMANTHA POTTS	4	F	5	SIMON BALL
504	JERRY SWINGER	6	M	5	SIMON BALL
505	AMY LEWIS	8	F	5	SIMON BALL
506	OWEN DAVIES	2	M	13	STUART ATKINS
507	RHIAN PAINTER	4	F	13	OWEN DAVIES
509	CORRIE LANE	7	M	13	RHIAN PAINTER



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2.4 Use the break command to remove duplicate employee managers.  
Space the output using skip. Hint: remember to use order by.

<i>Id</i>	<i>Name</i>	<i>Section</i>	<i>Gender</i>	<i>Location</i>	<i>Manager</i>
539	LAURA STEVENS	6	F	48	ALEX PROBERT
540	SANDRA MILLER	8	F	48	
538	MARK WITHINGTON	4	M	48	
662	JOSH GRIFFITHS	7	M	73	ANDY GREENWOOD
527	JAMES REES	6	M	37	ANDY PRICE
692	VICKI RICHARDSON	8	F	94	ANNALIE RICE
524	ROB JAMES	5	M	33	BECKY MARTIN



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2.5 Now 'compute' the number of Employees each Manager has ...

Note: We have moved the columns around in the SQL statement

<i>Manager</i>	<i>Id</i>	<i>Name</i>	<i>Section</i>	<i>Gender</i>	<i>Location</i>
-----	-----	-----	-----	-----	-----
<i>ALEX PROBERT</i>	<i>539</i>	<i>LAURA STEVENS</i>	<i>6</i>	<i>F</i>	<i>48</i>
	<i>540</i>	<i>SANDRA MILLER</i>	<i>8</i>	<i>F</i>	<i>48</i>
	<i>538</i>	<i>MARK WITHINGTON</i>	<i>4</i>	<i>M</i>	<i>48</i>
*****	-----				
<i>Employees</i>			<i>3</i>		
<i>ANDY GREENWOOD</i>	<i>662</i>	<i>JOSH GRIFFITHS</i>	<i>7</i>	<i>M</i>	<i>73</i>
*****	-----				
<i>Employees</i>			<i>1</i>		

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2.6 Amend the output so that a 'Grand Total' is given at the bottom ...

ZOE MORGAN	613	PAUL LEWIS	6	M	104
	615	BELLA BEST	8	F	104
	614	NEIL HARDING	7	M	104
*****					
Employees					3
	516	LINCOLN WATERS	1	M	31
	636	JOSH JACOBS	9	M	1
	521	RACHEL HUNT	1	F	33
*****					
Employees					3
-----					
Total Employees					201



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2.7 Note in the previous output that several Employees who are also Managers do not themselves have Managers, please amend the output using a col setting so that null values print out 'No Manager'.

```
Employees                                     3

No Manager          516 LINCOLN WATERS          1   M   31
                   636 JOSH JACOBS             9   M   1
                   521 RACHEL HUNT             1   F  33

*****
-----
Employees                                     3

-----

Total Employees                                     201
```

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2.8 Now create a Title for each page of this report, making sure that the report 'breaks' a page for every new Manager. Include the date.

*Managers and their Staff Report*

*Produced on 02-SEP-11*

<i>Manager</i>	<i>Id</i>	<i>Name</i>	<i>Section</i>	<i>Gender</i>	<i>Location</i>
-----	-----	-----	-----	-----	-----
<i>ZOE MORGAN</i>	<i>613</i>	<i>PAUL LEWIS</i>	<i>6</i>	<i>M</i>	<i>104</i>
	<i>615</i>	<i>BELLA BEST</i>	<i>8</i>	<i>F</i>	<i>104</i>
	<i>614</i>	<i>NEIL HARDING</i>	<i>7</i>	<i>M</i>	<i>104</i>
*****	-----				
<i>Employees</i>			<i>3</i>		

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2.9 If there is sufficient time: Modify the output so that the Manager Name appears in the Title of the Page rather than the body. In addition add the Page Number to the bottom of the Page.

*Managers and their Staff Report: ZOE MORGAN*

*Produced on 02-SEP-11*

<i>Id</i>	<i>Name</i>	<i>Section</i>	<i>Gender</i>	<i>Location</i>
613	PAUL LEWIS	6	M	104
615	BELLA BEST	8	F	104
614	NEIL HARDING	7	M	104

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2.10 The file `c:\course\ex2_10.sql` contains an insert statement and a select statement. Modify the insert statement using AQM so that it will work.