

# Business Analytics

## - Report Studio - IBM Cognos - Use Additional Report Building Techniques

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# Objectives

- Enhance report design with report objects ;
- reuse objects within the same report ;
- Share layout components among separate reports ;
- Discus report templates ;
- Choose options to handle reports with no available data.

## Enhance report design with report objects

When creating a report, keep in mind that reports have :

- Horizontal bands ;
- Vertical bands ;
- Data frame objects (lists, crosstabs, charts, etc).

# Enhance report design with report objects cont'd

To ensure professional results remember to :

- Use padding, margin, and blocks to create white space ;
- Set properties on the highest level item ;
- avoid fixed size objects.

Padding on bottom of block

<b>Gross Profit per Product</b>
For more information, please contact...

bottom margin

<b>Gross Profit per Product</b>
For more information, please contact...

# Add Objects

Add, format, and organize objects to enhance the appearance of reports.

**Text Item**

**Image**

**Table (2 columns, 1 row)**

**Block with Text Item**

Great Outdoors

Sales Representative Performance Report

Country	Employee name	Revenue
<Country>	<Employee name>	<Revenue>
<Country>	<Employee name>	<Revenue>
<Country>	<Employee name>	<Revenue>

Enhance report design with report objects

Reuse objects within the same report

Share layout components among separate reports

Discuss report templates

Add Objects

Organize Objects Using Tables

Break a report into sections

Convert a list to a crosstab

## Organize Objects Using Tables

Add a table to a page to hold and organize objects such as titles, list, images, and charts.

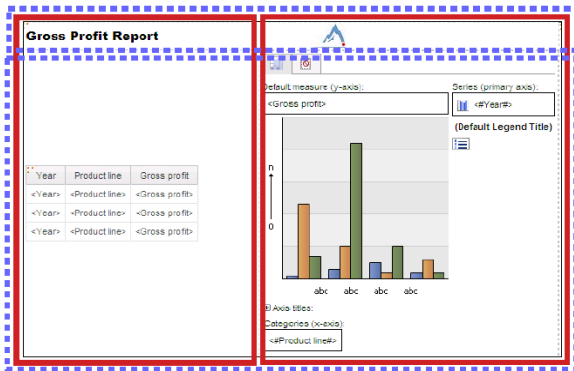


Table with  
2 rows (=) and 2  
columns (→)

Enhance report design with report objects  
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Add Objects  
Organize Objects Using Tables  
**Break a report into sections**  
Convert a list to a crosstab

# Break a report into sections

## Data Sectioned by Country

### Australia

Product line	Year	Revenue
Camping Equipment	2013	\$13,007,383.98
Personal Accessories	2011	\$2,131,381.68

### Austria


Product line	Year	Revenue
Camping Equipment	2013	\$5,009,903.66
Personal Accessories	2010	\$7,431,795.17

# Convert a list to a crosstab

Condense a report and view data from a different perspective by converting a list to a crosstab.

## Convert a List Report to a Crosstab Report

Product line	Year	Revenue
<Product line>	<Year>	<Revenue>
<Product line>	<Year>	<Revenue>
<Product line>	<Year>	<Revenue>

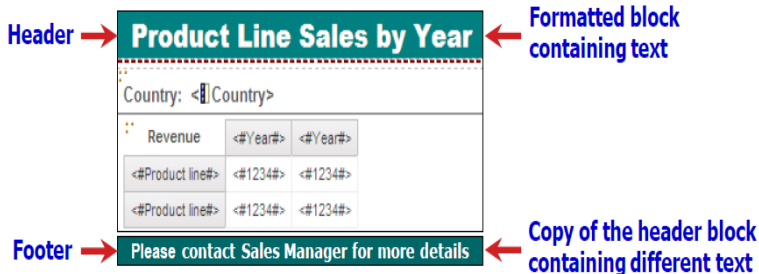


Revenue	<#Year#>	<#Year#>
<#Product line#>	<#1234#>	<#1234#>
<#Product line#>	<#1234#>	<#1234#>



# Reuse objects within the same report

You can change the contents of a reused object by overriding the child components and replacing them with other objects.




## Share layout components among separate reports

- In report studio you can reuse layout components in different reports.
- You can choose to update shared layout objects manually or automatically.
- Be sure to name each layout component you want to reuse in other reports.
- Create a report containing all the objects you want to reuse in different reports, and then use it as an objects library.

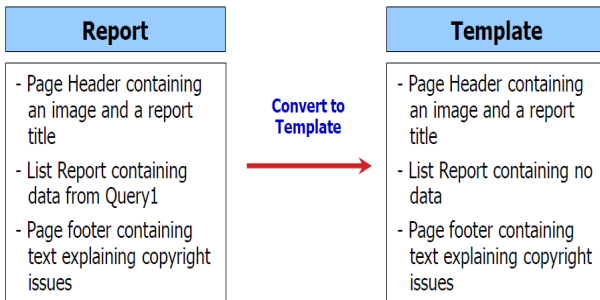
## Reuse layout components in a different report

Demo - TP22 : Reuse layout components in a different report.

Quantity by Order Method		 <%AsOfDate (%)%>	
Order method type	Quantity		
<Order method type>	<Quantity>		
<Order method type>	<Quantity>		
<Order method type>	<Quantity>		

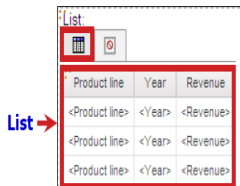
# Create a template report to use with any Package

You can create and format a report and then convert this report to a template to be used with any package.



## Handle report with no data

When a query returns no data, you can provide alternate content or remove the data the data frame from the report.



## Explore options for reports that contain no data

Demo-TP 23 : Explore options for reports that contain no data.

### Page 3 -Show Custom Message when No Data is Returned

List:

List contains no data!

Crosstab:


Crosstab contains no data!

Enhance report design: design with report objects  
 Reuse objects within the same report  
 Share layout components among separate reports  
 Discuss report templates

Create a template report to use with any Package  
 Handle report with no data  
 Demo  
 Demo

# Analyze product quantities sold by month

Demo-TP 24 : Analyze product quantities sold by month.



The Sample Outdoors Company

Predict line: Camping Equipment

Quantity	April	August	December	February	January	July	June	March	May	November	October	September
Canyon Hike Canyon	12,283	13,624	14,263	14,289	6,316	18,726	12,114	9,368	8,228	12,247	12,629	14,828
Canyon Hike Climb Backpack	19,257	14,222	14,275	14,819	12,942	18,229	10,293	11,726	13,694	13,424	25,228	19,883
Canyon Hike Cover	26,527	24,545	23,348	22,877	18,472	24,493	41,131	17,811	38,797	22,328	22,241	28,987
Canyon Hike Extreme Backpack	9,828	8,828	3,942	3,934	2,276	4,194	2,444	4,264	3,994	3,930	3,242	3,271
Canyon Hike Journey Backpack	10,130	13,289	8,754	8,441	6,525	8,627	7,272	6,222	7,265	8,225	6,757	8,166
Canyon Hike Intermediate Backpack	7,187	8,128	8,118	12,144	8,118	8,789	8,818	8,308	8,587	7,880	7,888	7,388
EverGlow Bulbless	2,803	3,189	3,334	3,993	2,888	3,423	3,493	2,868	3,894	2,862	3,924	3,873
EverGlow Double	1,287	1,288	1,284	1,217	1,285	1,421	1,472	1,324	1,348	1,308	1,282	1,216
EverGlow Kerosene	7,184	8,228	8,822	8,843	7,821	8,881	15,247	8,327	8,484	7,782	7,884	7,314
EverGlow Lamp	21,867	26,827	27,736	24,881	19,881	28,888	28,888	28,388	22,887	22,734	23,228	23,221
EverGlow Single	12,423	21,828	12,822	12,822	12,822	13,168	17,364	11,223	14,284	12,357	15,888	14,287
Feisty 2	15,527	14,881	18,424	18,881	17,781	18,481	18,287	17,327	17,245	13,878	14,548	15,524
Feisty 4	8,743	7,717	7,287	7,148	6,326	7,887	8,818	8,818	7,218	8,888	8,817	7,245
Feisty Extreme	4,384	4,173	4,588	4,555	3,828	4,288	4,881	3,138	4,874	4,388	4,228	3,885
Feisty Lite	13,888	14,782	18,773	18,288	12,878	14,882	17,882	16,781	18,888	14,818	12,882	13,128
Feisty Roadster	18,482	21,848	28,882	18,882	18,848	21,288	24,818	18,218	18,882	18,472	28,884	18,288
Feisty Sublight	8,514	7,788	7,882	8,822	8,824	8,241	8,724	1,348	7,875	7,135	7,228	7,488
Hiker Lantern	7,519	8,149	5,882	4,782	4,884	4,724	5,424	3,888	8,888	8,888	8,881	8,882
Hydration	12,114	12,828	12,388	13,228	28,428	14,222	13,888	8,222	12,687	12,132	14,888	11,888
Hydration Camp Kit	7,515	8,888	5,877	8,888	8,887	8,828	18,782	7,748	13,278	7,952	8,888	11,288