

Business Analytics - Report Studio - IBM Cognos Create Reports Based on Query Relationships

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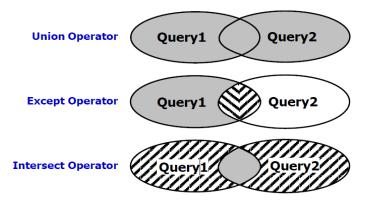


Objectives

- Create reports by merging query resuls;
- Create reports by joining queries;
- Combine data containers based on relationships from different queries;

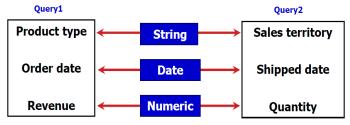
Merge Query Results Using Set Operation Objects (1/2)

To retrive only the data from separate queries that meets a specific relationship requirement, use set operations.



Merge Query Results Using Set Operation Objects (2/2)

Combined queries must contain the same number of data items, the data items must be compatible, and must appear in the same order:



Two queries that could be combined using set operations

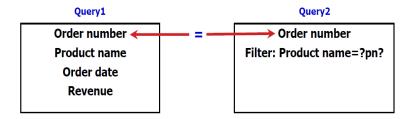
Demo: Answer a Business Question by Creating a Union Between Two Queries

Demo - TP29 : Answer a Business Question by Creating a Union Between Two Queries

Sales rep/Order method	Revenue
Alphonse Sauvage	23,194,925.33
Chang-ho Kim	19,750,237.63
Charles Laurel	20,681,527.49
Fausta Bruno	21,672,254.62
Fiorenza Giordano	22,414,321.95
Lotta Bichot	18,153,919.5
Nathalie Benoit	23,253,020.06
Roderick Albiñana	21,479,702.23
Roger Bakker	18,395,422.16
Warren Chambers	18,855,642.06
E-mail	23,701,042.57
Sales visit	73,918,652.38
Telephone	37,199,842.8
Web	1,339,714,172.77

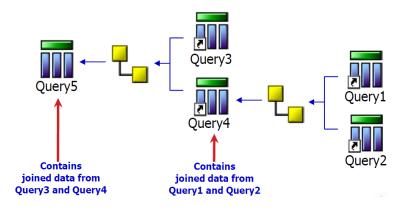
Create Join Relationships Between Queries (1/2)

Create join realtionships between queries when you need to create a relationship between data in separate queries to answer a specific business question.



Create Join Relationships Between Queries (2/2)

To retrieve the data you requires, you can join a query or create multiple joined queries.



Demo: Analyze Product Sales by Joing Two Queries

Demo- TP 30 : Analyze Product Sales by Joing Two Queries

Order number	Date	Product	Quantity	Revenue
100183	Feb 9, 2010	Bear Edge	216	8,402.4
		EverGlow Kerosene	220	6,732
		Star Lite	287	98,791.14
		TrailChef Cook Set	540	28,177.2
		TrailChef Single Flame	477	29,621.7
		TrailChef Utensils	415	7,764.65
100183 - Total			2,155	179,489.09

Create a Report Within a Report

You can create a report that delivers information that would otherwise require two or more reports.

Product line	Revenue	Product line Sales Trends
Camping Equipment	\$4,578,321	=
Mountaineering Equipment	\$4,343,692	ılı
Personal Accessories	\$3,178,613	1





Demo: Create a Revenue Report Using a Master Detail Relationship

Demo - TP 31 : Create a Revenue Report Using a Master Detail Relationship

Country	Planned revenue	Revenue				Revenue by Quarter			
Australia	41,383,351.34	38,968,802.62		Revenue	01	02	03	04	2012 Total
			Velbourne	Alice Water	2,019,726.71	2,119,397.51	2,992,620.71	3,374,957.17	10,506,702.1
				Dave Smythe	2,186,537.08	1,882,231.18	1,800,068.74	1,047,201.83	6,916,038.81
				Donald Ward	2,178,861.5	4,002,379	1,926,622.95	1,293,386.63	9,401,250.08
				Jackie Fultord	2,074,084.88	1,559,967.22	2,133,314.29	2,427,298.86	8,194,665.25
				Jake Cartel	207,467.54	377,394.22	103,522.89	894,281.45	1,582,666.1
				John Sinden		762,028.46	1,208,888.04	396,563.78	2,367,480.28
Austria	30,068,727.76	28,348,967.66		Revenue	QI	02	03	Q4	2012 Total
			Wien	Jutta Shulz	2,930,989.73	2,536,379.67	1,667,594.69	2,803,828.28	9,938,792.37
				Sabine Grüner	2,444,012.59	2,680,555.17	3,670,905.95	3,397,724.96	12,193,198.67
				Thomas Schirmer	2,304,302.89	1,347,534.07	1,206,262.02	1,358,877.64	6,216,976.62

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Demo: Create a Report Comparing Quantity Sold in Different Order Years

Demo - TP 32 : Create a Report Comparing Quantity Sold in Different Order Years.

Quantity 2012	% Change (2011 - 2012)	Quantity 2011	% Change (2010 - 2011)	Quantity 2010	Order method type
409,049	-57.76%	968,453	-51.25%	1,986,395	E-mail
249,234	-41.50%	426,006	-38.15%	688,786	Fax
119,619	-64.78%	339,635	-30.51%	488,735	Mail
1,411,468	-20.66%	1,778,941	-32.62%	2,640,065	Sales visit
13,622	-94.60%	252,429	-25.76%	340,021	Special
684,667	-69,60%	2,251,898	-43.42%	3,979,898	Telephone
23,054,131	31.68%	17,507,323	74.19%	10,050,830	Web