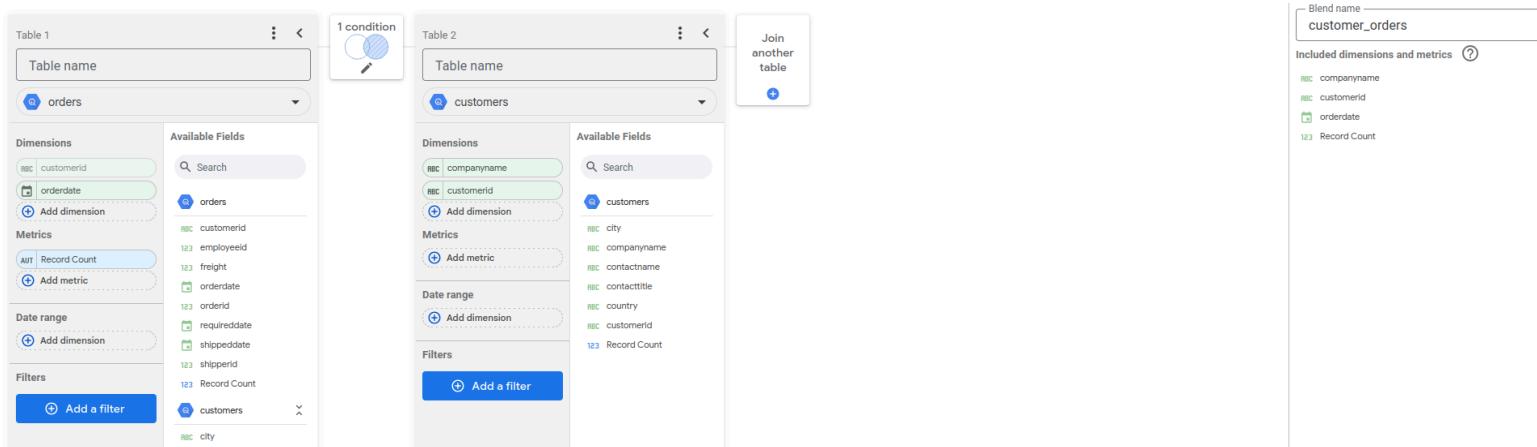


Other Data Sources: Day 2 Walkthrough

1. Go to BigQuery. Find your project in the explorer and click the 3 dots on the right. Select “Create dataset”. Create a new dataset named “northwind”.
 - a. Create two tables in the northwind dataset, one for customers and the other for orders and upload customers.csv and orders.csv, respectively. Note: auto-detecting the schema will probably work, but double-check that it picked up the column names correctly.
2. Create a new report in Looker Studio and name it Northwind.
3. Add two BigQuery data sources, one for each table.
4. Now, we'll create a blend by clicking on the Blend button at the top of the screen.
 - a. Name this blend customer_orders.
 - b. Include the companyname, customerid, orderdate, and Record Count fields.
 - c. Ensure that your blend includes all customers, whether or not they had an order.



5. Now, build a table that shows the number of orders per company name. Sort in descending order by the number of orders.

	companyname	Number of Orders ▾
1.	Save-a-lot Markets	31
2.	Ernst Handel	30
3.	QUICK-Stop	28
4.	Hungry Owl All-Night Grocers	19
5.	Folk och fä HB	19
6.	HILARION-Abastos	18
7.	Rattlesnake Canyon Grocery	18
8.	Berglunds snabbköp	18
9.	Bon app'	17
10.	Frankenversand	15

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6. If you scroll to the bottom of the table, you'll find that there are three customers with no orders. This shows up as null. Let's correct this with a calculated field.
 - a. Bring up the table properties for your table. Under Metric, click "Add metric". Create a new metric, "Order Count" by using the COALESCE function on Record Count, filling nulls with 0.

SUM Order Count

Display name —
Order Count

Data type
123 Number

Display Format
Default

Formula

1	COALESCE(Record Count ,0)
---	----------------------------

Apply

The screenshot shows the configuration interface for a metric named "Order Count". The formula is defined as "COALESCE(Record Count, 0)". The "Data type" is set to "Number" and the "Display Format" is set to "Default". The "Apply" button is visible at the bottom right.

- b. Replace Record Count with this new Order Count metric and confirm that there are no more null values.
- 7. Now, return to BigQuery and create two new tables, order_details, and products, using the corresponding csvs. Then add these tables to your Looker Studio report.
- 8. Create a new blend that will allow you to create a table showing the total quantity of Grandma's Boysenberry Spread purchased by each customer. Display the company name and the total amount purchased.

	companyname	quantity
1.	Mère Paillard	70
2.	Bon app'	70
3.	Que Delicia	40
4.	Hungry Owl All-Night Grocers	30
5.	Gourmet Lanchonetes	30
6.	Lehmans Marktstand	20
7.	Alfreds Futterkiste	16
8.	Bottom-Dollar Markets	12
9.	Königlich Essen	6
10.	Tradição Hipermercados	6
11.	Rattlesnake Canyon Grocery	1

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9. Go back to BigQuery and create a View that finds the total quantity ordered by product and customer. Report the productname, companyname, and total quantity.
10. Go back to Looker Studio and add a data source. Add your view to the report.
11. Redo the previous table but this time using the view instead of the blend.
12. Now, let's say we want to create a table showing the top-selling product per customer. There is not an easy way to do this in Looker Studio, so you'll need to modify your View.
 - a. Add a product rank which ranks each product based on the total quantity ordered, partitioning by customer.
 - b. This will not be automatically detected by Looker Studio. Click on Resource -> Manage added data sources and Edit the view datasource. Click the REFRESH FIELDS button in the bottom left and verify that the rank column appears.
 - c. Add a new table that shows each company name, its top product, and the quantity of that product.
 - d. Challenge Question: Modify your view so that in the event of a tie, all tied product names are listed together so that each customer shows up in only one row.

companyname	productnames	total_quantity
Alfreds Futterkiste	Escargots de Bourgogne	40
Ana Trujillo Emparedados y helados	Camembert Pierrot, Konbu, Mascarpone Fabioli, Mozzarella di Giovanni	10
Antonio Moreno Taqueria	Queso Cabrales	74
Around the Horn	Gorgonzola Telino	115
B's Beverages	Uncle Bob's Organic Dried Pears	34
Berglunds snabbköp	Boston Crab Meat	75
Blauer See Delikatessen	Sir Rodney's Scones	23
Blondesddsl père et fils	Gorgonzola Telino	85
Bon app'	Grandma's Boysenberry Spread	70
Bottom-Dollar Markets	Tarte au sucre	101
Bólido Comidas preparadas	Rhönbräu Klosterbier	50
Cactus Comidas para llevar	Laughing Lumberjack Lager, Rhönbräu Klosterbier, Sasquatch Ale	20
Centro comercial Moctezuma	Sir Rodney's Scones	10
Chop-suey Chinese	Gnocchi di nonna Alice	72
Comércio Mineiro	Gnocchi di nonna Alice	30
Consolidated Holdings	Chef Anton's Gumbo Mix	30

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