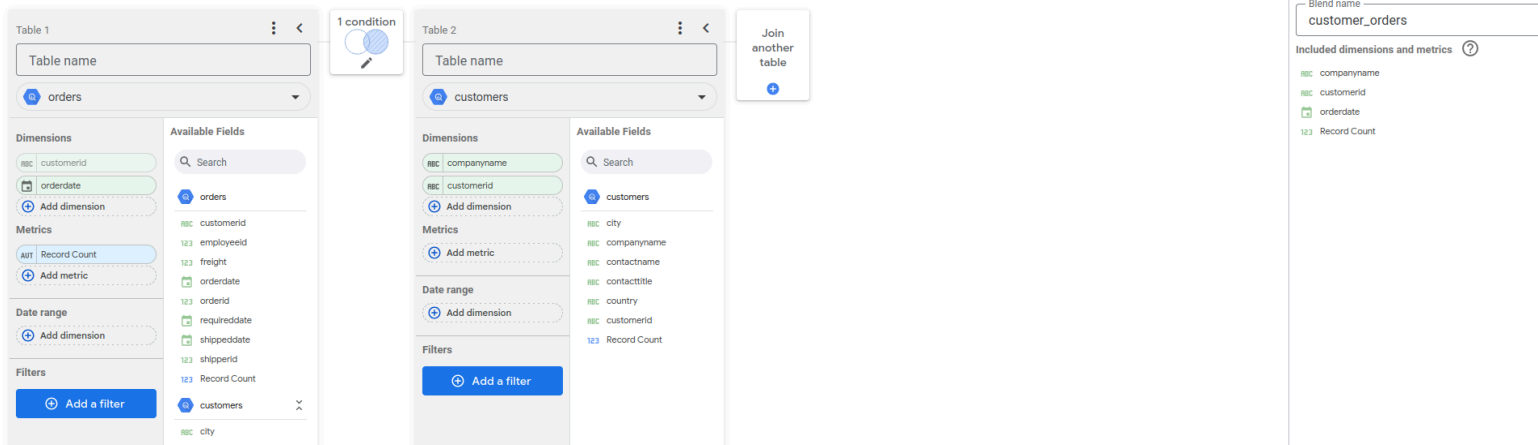# Other Data Sources: Day 2 Walkthrough

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.

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 Paillarde | 70 |
| 2. | Bon app' | 70 |
| 3. | Que Delícia | 40 |
| 4. | Hungry Owl All-Night Grocers | 30 |
| 5. | Gourmet Lanchonetes | 30 |
| 6. | Lehmanns 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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The country with the lowest life expectancy which had a GDP per capita greater than  35000  in 2022 was  Oman  with a life expectancy of  73.935 .