Activity Exemplar: Create your target table for Google Fiber

In this activity, you created a target table to consolidate and store the Google Fiber datasets. This table will allow you to develop a dashboard using Tableau in the upcoming end-of-course project activities in the next course. As a BI professional, you will need to be able to use programs such as BigQuery and Dataflow to move and analyze data with SQL. This end-of-course project showcases your ability to do just that.

The exemplar you are about to review will help you evaluate whether you completed the activity correctly. In this case, you might have discovered a solution that works just as well as the exemplar. That's great! This exemplar is an example of how a BI professional might have approached this challenge. As long as your process achieved the same results, you can move on to the next phase of the project.

If you find that the result you received is different from the exemplar provided, use the exemplar to iterate and adjust your own code.

Exploring the exemplar code

For this activity, you could run the following SQL query to create a single combined table that merged all three of the datasets your were given:

```
3       contacts_n,
4       contacts_n_1,
5       contacts_n_2,
6       contacts_n_3,
7       contacts_n_4,
8       contacts_n_5,
9       contacts_n_6,
10      contacts_n_7,
11      new_type,
12      new_market
13    FROM `your project.fiber.market_1`
14    UNION ALL
15    SELECT
16      date_created,
17      contacts_n,
18      contacts_n_1,
19      contacts_n_2,
20      contacts_n_3,
21      contacts_n_4,
22      contacts_n_5,
23      contacts_n_6,
24      contacts_n_7,
25      new_type,
26      new_market
27    FROM `your project.fiber.market_2`
28    UNION ALL
29    SELECT
30      date_created,
31      contacts_n,
32      contacts_n_1,
33      contacts_n_2,
34      contacts_n_3,
35      contacts_n_4,
36      contacts_n_5,
37      contacts_n_6,
38      contacts_n_7,
39      new_type,
40      new_market
41    FROM `your project.market_3`
```

The UNION ALL statement is applied here instead of a JOIN statement because the tables already have matching columns, making them easy to merge completely.

After you have run this query, you should have a combined table like this:

Create a target table for Google Fiber exemplar ↗

Key takeaways

Storing data from multiple sources in target tables allows you to access and use consolidated data for reporting purposes. In the Course 3 end-of-course project, you will use the table you've created in this activity to design a dashboard and share insights with the Google Fiber stakeholders in order to help guide their process and make informed decisions.