

Optional: Upload the store transactions dataset to BigQuery

In the next video, the instructor uses a specific dataset. The instructions in this reading are provided for you to upload the same dataset in your BigQuery console so you can follow along.

You must have a BigQuery account to follow along. If you have hopped around courses, [Using BigQuery](#) in the **Prepare Data for Exploration** course covers how to set up a BigQuery account.

Prepare for the next video

- First, download the CSV file from the attachment below.

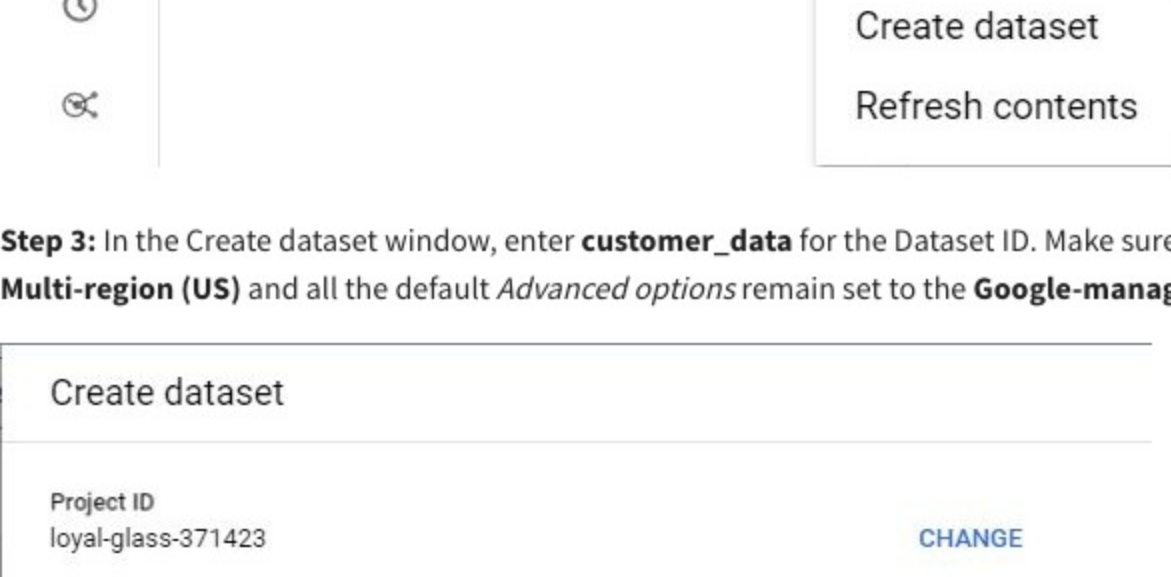
Lauren's Furniture Store Transaction Table
CSV File

- Next, complete the steps below in your BigQuery console to upload the Store Transaction dataset.

Note: These steps will be different from what you performed before. In previous instances, you selected the Auto detect check box to allow BigQuery to auto-detect the schema. This time, you will choose to create the schema by editing it as text. This method can be used when BigQuery doesn't automatically set the desired type for a particular field. In this case, you will specify STRING instead of FLOAT as the type for the purchase_price field.

Step 1: Open your BigQuery console and click on the project you want to upload the data to. If you already created a **customer_data** dataset for your project, jump to step 5; otherwise, continue with step 2.

Step 2: In the Explorer on the left, click the Actions icon (three vertical dots) next to your project name and select **Create dataset**.



Step 3: In the Create dataset window, enter **customer_data** for the Dataset ID. Make sure the *Location type* is set to **Multi-region (US)** and all the default *Advanced options* remain set to the **Google-managed encryption key** option.

Create dataset

Project ID: loyal-glass-371423 CHANGE

Dataset ID:

Letters, numbers, and underscores allowed

Location type

Region
Specify a region to colocate your datasets with other GCP services.

Multi-region
Allow BigQuery to select a region within a group to achieve higher quota limits.

Multi-region:

Default table expiration

Enable table expiration

Default maximum table age:

Advanced options v

CREATE DATASET CANCEL

Step 4: Click **CREATE DATASET** (blue button) to add the dataset to your project.

Step 5: In the Explorer pane, click on the expansion arrow under your project name, and then click the **customer_data** dataset.



Step 6: On the far right hand side of the new *Dataset info* page, click the blue **+ CREATE TABLE** button to open the *Create table* window. Use the visual settings in the next image to complete the steps below.

Create table x

Source

Create table from:

Select file: BROWSE

File format:

Destination

Project: loyal-glass-371423 BROWSE

Dataset: customer_data

Table: customer_purchase

Unicode letters, marks, numbers, connectors, dashes or spaces allowed.

Table type:

Schema

Auto detect

Edit as text

Step 7: Under Source, for the Create table from selection, choose where the data will be coming from.

- Select **Upload**.
- Click **Browse** to select the Store Transaction Table CSV file you downloaded.
- Choose **CSV** from the file format drop-down.

Step 8: For Table name, enter **customer_purchase** if you plan to follow along with the video.

Step 9: For Schema, click the toggle switch for **Edit as text**. This opens up a box for the text.

Step 10: Copy and paste the following text into the box. Be sure to include the opening and closing brackets. They are required.

```
[
  {
    "description": "date",
    "mode": "NULLABLE",
    "name": "date",
    "type": "DATETIME"
  },
  {
    "description": "transaction id",
    "mode": "NULLABLE",
    "name": "transaction_id",
    "type": "INTEGER"
  },
  {
    "description": "customer id",
    "mode": "NULLABLE",
    "name": "customer_id",
    "type": "INTEGER"
  },
  {
    "description": "product name",
    "mode": "NULLABLE",
    "name": "product",
    "type": "STRING"
  },
  {
    "description": "product code",
    "mode": "NULLABLE",
    "name": "product_code",
    "type": "STRING"
  },
  {
    "description": "product color",
    "mode": "NULLABLE",
    "name": "product_color",
    "type": "STRING"
  },
  {
    "description": "product price",
    "mode": "NULLABLE",
    "name": "product_price",
    "type": "FLOAT"
  },
  {
    "description": "quantity purchased",
    "mode": "NULLABLE",
    "name": "purchase_size",
    "type": "INTEGER"
  },
  {
    "description": "purchase price",
    "mode": "NULLABLE",
    "name": "purchase_price",
    "type": "STRING"
  },
  {
    "description": "revenue",
    "mode": "NULLABLE",
    "name": "revenue",
    "type": "FLOAT"
  }
]
```

Step 11: Scroll down and expand the **Advanced options** section.

Step 12: For the **Header rows to skip** field, enter **1**.

Note: It is very important that you don't skip the last step, or you will receive 'parsing' errors, as BigQuery will try to apply the schema editing functions to the title row.

Partition and cluster settings

Partitioning:

Clustering order:

Clustering order determines the sort order of the data. Clustering can be used on both partitioned and non-partitioned tables.

Advanced options

Write preference:

Number of errors allowed:

Unknown values

Field delimiter:

Quote character:

Header rows to skip:

CREATE TABLE CANCEL

Step 13: Click **Create table** (blue button). You will now see the **customer_purchase** table under your **customer_data** dataset in your Explorer pane.

Step 14: Click the **customer_purchase** table and in the **Schema** tab, confirm that the schema matches the schema shown below.

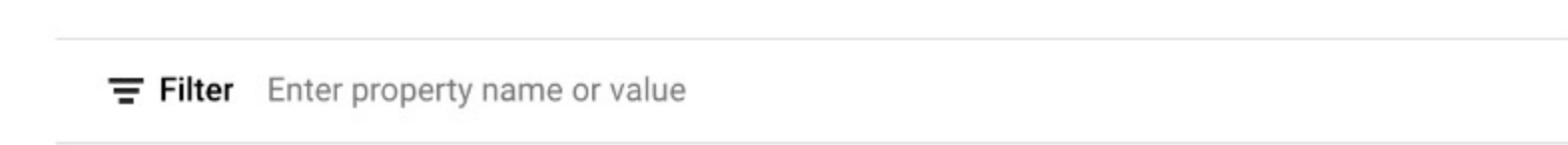


Table schema

| Field name | Type | Mode | Policy Tags | Description |
|----------------|----------|----------|-------------|--------------------|
| date | DATETIME | NULLABLE | | date |
| transaction_id | INTEGER | NULLABLE | | transaction id |
| customer_id | INTEGER | NULLABLE | | customer id |
| product | STRING | NULLABLE | | product name |
| product_code | STRING | NULLABLE | | product_code |
| product_color | STRING | NULLABLE | | product color |
| product_price | FLOAT | NULLABLE | | product price |
| purchase_size | INTEGER | NULLABLE | | quantity purchased |
| purchase_price | STRING | NULLABLE | | purchase price |
| revenue | FLOAT | NULLABLE | | revenue |

Step 15: Click the **Preview** tab and confirm that your data matches the data shown below.

| Row | date | transaction_id | customer_id | product | product_color | product_price | purchase_size | purchase_price | revenue | |
|-----|---------------------|----------------|-------------|----------|---------------|---------------|---------------|----------------|---------|--------|
| 1 | 2020-08-29T00:00:00 | 9900 | 1980 | fan | SKU83503 | brass | 13.99 | 2 | 27.98 | 27.98 |
| 2 | 2020-05-01T00:00:00 | 12315 | 2463 | fan | SKU83503 | brass | 13.99 | 2 | 27.98 | 27.98 |
| 3 | 2020-12-12T00:00:00 | 9890 | 1978 | fan | SKU83503 | white | 13.99 | 1 | 13.99 | 13.99 |
| 4 | 2020-02-16T00:00:00 | 46915 | 9383 | fan | SKU83503 | black | 13.99 | 1 | 13.99 | 13.99 |
| 5 | 2020-12-28T00:00:00 | 44700 | 8940 | fan | SKU83503 | brass | 13.99 | 2 | 27.98 | 27.98 |
| 6 | 2020-12-28T00:00:00 | 44700 | 8940 | lamp | SKU95363 | brass | 45.99 | 5 | 160.965 | 169.95 |
| 7 | 2020-10-11T00:00:00 | 12560 | 2512 | bed | SKU74796 | brown | 799.99 | 1 | 799.99 | 799.99 |
| 8 | 2020-06-29T00:00:00 | 9640 | 1928 | couch | SKU31871 | grey | 1000.0 | 1 | 1000 | 1000.0 |
| 9 | 2020-11-10T00:00:00 | 22620 | 4524 | couch | SKU31871 | grey | 1000.0 | 1 | 1000 | 1000.0 |
| 10 | 2020-02-05T00:00:00 | 49430 | 9886 | couch | SKU31871 | grey | 1000.0 | 1 | 1000 | 1000.0 |
| 11 | 2020-04-28T00:00:00 | 49075 | 9815 | couch | SKU31871 | blue | 1000.0 | 1 | 1000 | 1000.0 |
| 12 | 2020-01-23T00:00:00 | 37855 | 7571 | couch | SKU31871 | purple | 1000.0 | 1 | 1000 | 1000.0 |
| 13 | 2020-02-16T00:00:00 | 9900 | 1980 | couch | SKU31871 | white | 1000.0 | 1 | 1000 | 1000.0 |
| 14 | 2020-10-12T00:00:00 | 1675 | 335 | couch | SKU31871 | white | 1000.0 | 1 | 1000 | 1000.0 |
| 15 | 2020-07-08T00:00:00 | 23435 | 4687 | couch | SKU31871 | brown | 1000.0 | 1 | 1000 | 1000.0 |
| 16 | 2020-10-21T00:00:00 | 19105 | 3821 | couch | SKU31871 | black | 1000.0 | 1 | 1000 | 1000.0 |
| 17 | 2020-12-30T00:00:00 | 48035 | 9607 | rug | SKU19092 | beige | 89.85 | 3 | 269.55 | 269.55 |
| 18 | 2020-09-25T00:00:00 | 31615 | 6323 | rug | SKU19092 | grey | 89.85 | 2 | 179.7 | 179.7 |
| 19 | 2020-08-11T00:00:00 | 31775 | 6355 | rug | SKU19092 | grey | 89.85 | 1 | 89.85 | 89.85 |
| 20 | 2020-09-07T00:00:00 | 21870 | 4374 | rug | SKU19092 | beige | 89.85 | 3 | 269.55 | 269.55 |
| 21 | 2020-07-22T00:00:00 | 45400 | 9080 | vase | SKU99037 | green | 9.99 | 2 | 19.98 | 19.98 |
| 22 | 2020-07-22T00:00:00 | 45400 | 9080 | mirror | SKU97721 | brass | 199.95 | 1 | 199.95 | 199.95 |
| 23 | 2020-07-22T00:00:00 | 45400 | 9080 | bookcase | SKU15757 | brown | 58.89 | 1 | 58.89 | 58.89 |
| 24 | 2020-04-29T00:00:00 | 26530 | 5306 | desk | SKU40294 | brown | 169.95 | 1 | 169.95 | 169.95 |
| 25 | 2020-03-22T00:00:00 | 14080 | 2816 | desk | SKU40294 | brown | 169.95 | 1 | 169.95 | 169.95 |
| 26 | 2020-06-04T00:00:00 | 6340 | 1268 | desk | SKU40294 | white | 169.95 | 1 | 169.95 | 169.95 |
| 27 | 2020-02-28T00:00:00 | 21485 | 4297 | chair | SKU99664 | black | 234.5 | 1 | 234.5 | 234.5 |
| 28 | 2020-06-06T00:00:00 | 24785 | 4957 | null | SKU77417 | beige | 399.95 | 1 | 399.95 | 399.95 |
| 29 | 2020-06-06T00:00:00 | 24785 | 4957 | null | SKU13351 | grey | 299.99 | 1 | 299.99 | 299.99 |

Congratulations, you are now ready to follow along with the video!

Go to next item
✔ Completed