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.
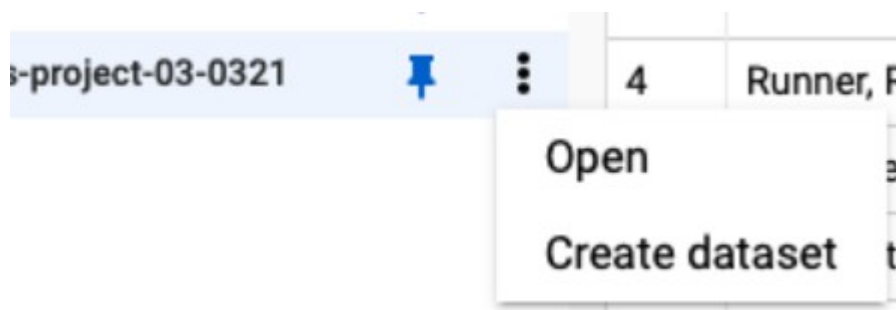
Prepare for the next video

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

- 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: Enter **customer_data** for the Dataset ID.

Create dataset

Dataset ID *

customer_data

Letters, numbers, and underscores allowed

Data location

Default ▼ ❓

Default table expiration

☐ Enable table expiration ❓

Default maximum table age   Days

Encryption

🔘 Google-managed encryption key
   No configuration required

⚪ Customer-managed encryption key (CMEK)
   Manage via Google Cloud Key Management Service

CREATE DATASET   CANCEL

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

Step 5: In the Explorer, click to expand your project, and then click the **customer_data** dataset.

Step 6: Click the Actions icon (three vertical dots) next to customer_data and select **Open**.

Step 7: Click the blue **+** icon at the top right to open the Create table window.

Step 8: 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 9: For Table name, enter **customer_purchase** if you plan to follow along with the video.

Step 10: For Schema, click the toggle switch for **Edit as text**. This opens up a box for the text.

Step 11: 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 12: Scroll down and expand the **Advanced options** section.

Step 13: For the **Header rows to skip** field, enter **1**.

Advanced options ⌃

Write preference:

Write if empty ▼

Number of errors allowed: ⓘ

0

Unknown values: ⓘ
☐ Ignore unknown values

Field delimiter: ⓘ

Comma ▼

Header rows to skip: ⓘ

1

Quoted newlines ⓘ
☐ Allow quoted newlines

Jagged rows ⓘ
☐ Allow jagged rows

Encryption
Data is encrypted automatically. Select an encryption key management solution.
◉ Google-managed key
No configuration required
○ Customer-managed key
Manage via Google Cloud Key Management Service

Step 14: Click **Create table** (blue button). You will now see the **customer_purchase** table under your **customer_data** dataset in your project.

Step 15: Click the **customer_purchase** table and in the **Schema** tab, confirm that the schema matches the schema shown below.

Table schema

Filter   Enter property name or value

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

Row	date	transaction_id	customer_id	product	product_code	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	229.95
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!