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TUGAS DATA ANALITIK 3

- Buka file excel tabel produksi dan penjualan yang pertemuan sebelumnya buat
- Ganti kolom angka dengan format number dan tanggal dengan short date

Tabel Penjualan - Microsoft Excel

penjualan_id	produk_id	tanggal_penjualan	jumlah_terjual
1	14	23/07/2023	
2	9	24/11/2023	
3	8	02/05/2023	
4	14	14/11/2023	
5	13	21/10/2023	
6	16	26/12/2023	
7	13	06/05/2023	
8	1	01/11/2023	
9	5	08/04/2023	
10	15	19/06/2023	
11	18	30/08/2023	
12	7	27/11/2023	
13	6	18/11/2023	
14	12	28/07/2023	
15	7	25/08/2023	
16	20	04/03/2023	
17	10	07/05/2023	331
18	15	04/01/2023	175
19	18	06/07/2023	222
20	8	14/09/2023	478

Tabel Produksi - Microsoft Excel

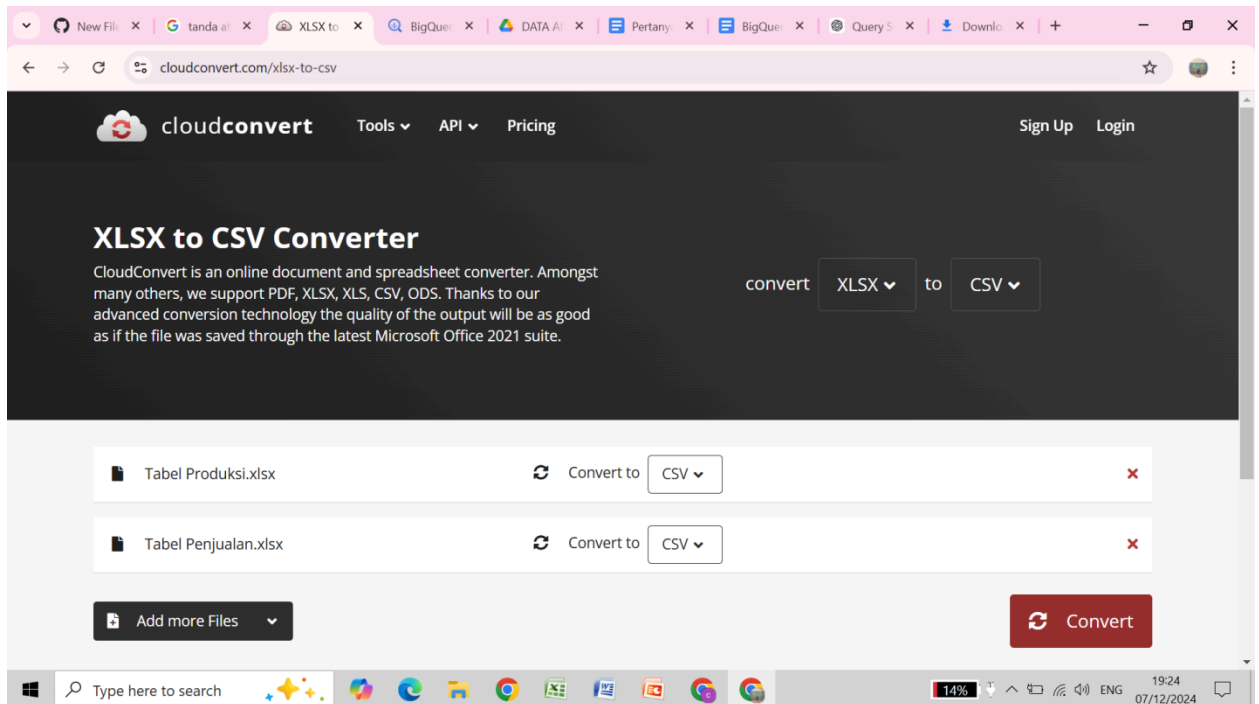
produksi_id	produk_id	tanggal_mulai	tanggal_selesai
1	6	18/11/2023	20/11/2023
2	8	31/10/2023	09/11/2023
3	12	15/04/2023	22/04/2023
4	3	26/12/2023	29/12/2023
5	5	27/02/2023	02/03/2023
6	17	11/09/2023	16/09/2023
7	15	04/12/2023	13/12/2023
8	9	15/08/2023	18/08/2023
9	13	26/07/2023	31/07/2023
10	7	23/06/2023	24/06/2023
11	17	24/10/2023	06/11/2023
12	15	21/11/2023	26/11/2023
13	16	29/09/2023	03/10/2023
14	6	04/08/2023	08/08/2023
15	6	30/01/2023	08/02/2023
16	4	17/09/2023	19/09/2023
17	11	21/07/2023	30/07/2023
18	12	08/07/2023	21/07/2023
19	9	26/11/2023	30/11/2023
20	8	21/09/2023	05/10/2023

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- Convert masing-masing file excel di atas menjadi csv



- BUKA CHATGPT, perintahkan untuk membuat sql dengan melampirkan tabel produksi dan penjualan excel yang sudah diubah tadi sbb:

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The screenshot displays a web browser window with multiple tabs open, including 'New File', 'tanda', 'XLSX to', 'BigQuery', 'DATA AI', 'Pertany', 'BigQuei', 'Query S', and 'Downlo'. The address bar shows the URL 'chatgpt.com/c/673db5b2-7264-800e-800a-d65282cbc865'. The ChatGPT interface is visible, with a sidebar on the left containing options like 'ChatGPT', 'Explore GPTs', and a list of previous conversations. The main chat area shows a message from the user: 'Baca detail 2 file yang saya lampirkan' and 'Setelah itu bantu saya'. The assistant's response explains that the user is using BigQuery to analyze sales and production data from two tables, 'tabel_penjualan.xlsx' and 'tabel_produksi.xlsx', within a dataset named 'Perusahaan03'. The user wants to find the top-selling product ID and quantity for the first six months of 2023, with an additional criterion of even product IDs. The assistant provides a detailed note for the user to help with the query, mentioning columns like 'id_produk', 'id_produksi', 'tanggal_produksi', 'jumlah_terjual', and 'foreign key'. The assistant asks for a SQL query to perform the analysis.

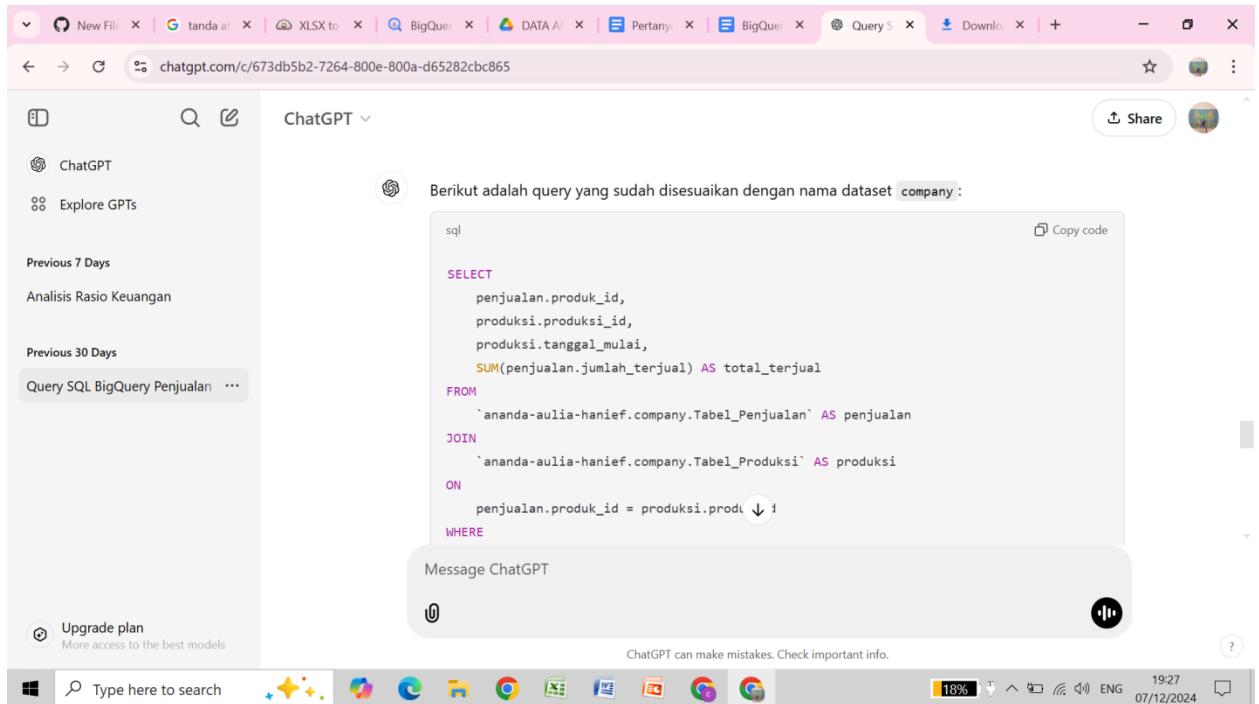
ChatGPT can make mistakes. Check important info.

- Salin sql

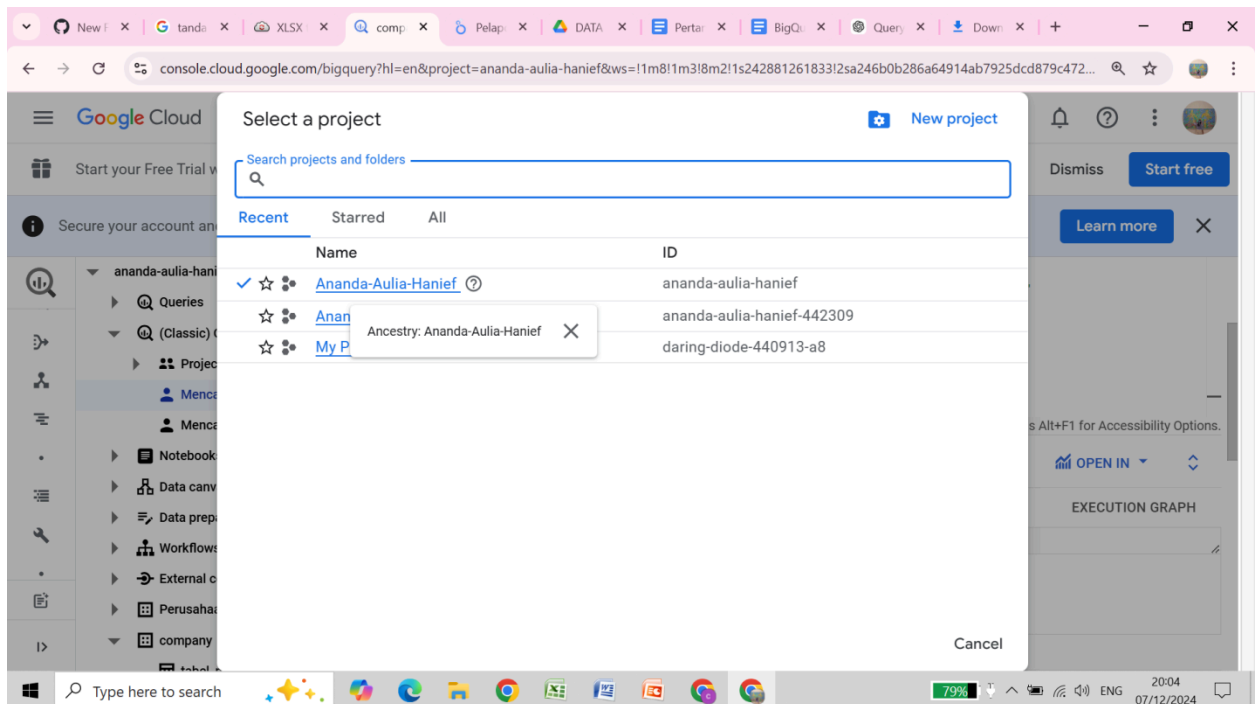
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- Buka BigQuery dan pilih console, buka project yang sudah dibuat pada sebelumnya sebelumnya dengan format nama spasi (-)



- Cari fitur bigquery
- Pilih BigQuery Studio menggunakan project yang sudah dibuat tadi
- Create dataset baru direname 'company'

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The screenshot shows the Google Cloud BigQuery console interface. The top navigation bar includes the Google Cloud logo, the user name 'Ananda-Aulia-Hanief', and a search bar. Below the navigation bar, there are several promotional banners for a free trial and account security. The main content area is divided into two panels. The left panel, titled 'Explorer', shows a tree view of resources under the project 'ananda-aulia-hanief', including 'Queries', '(Classic) Queries (2)', 'Project queries', 'Mencari jumlah penjualan te...', 'Mencari penjualan tertinggi', and 'Notebooks'. The right panel, titled 'Dataset info', displays details for the 'company' dataset, including its ID, creation time, default table expiration, last modified time, data location, and description. A 'CREATE TABLE' button is visible above the dataset info panel.

- Create table

The screenshot shows the Google Cloud BigQuery console interface, similar to the previous one, but with a context menu open over the 'company' dataset. The context menu includes options: 'Open', 'Create table', 'Share', 'Copy ID', 'Refresh contents', and 'Delete'. The 'company' dataset is selected in the left panel, and its details are shown in the right panel. The 'Job history' section is visible at the bottom of the right panel, showing a table with columns for Job ID, Creation time, Owner, Type, Summary, and Actions.

- Cari sql query lalu create new

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The screenshot shows the Google Cloud BigQuery console interface. The top navigation bar includes the Google Cloud logo, the user name 'Ananda-Aulia-Hanief', and a search bar. Below the navigation bar, there are several banners: 'Start your Free Trial with \$300 in credit', 'Secure your account and protect your data by turning on multi-factor authentication', and 'Set up billing to upgrade to the full BigQuery experience'. The main content area is divided into two sections: 'Explorer' on the left and 'Dataset info' on the right. The 'Explorer' section shows a tree view of resources under the project 'ananda-aulia-hanief', including 'Queries', '(Classic) Queries (2)', 'Project queries', 'Mencari jumlah penjualan te...', 'Mencari penjualan tertinggi', and 'Notebooks'. The 'Dataset info' section displays details for the dataset 'company', including its ID, creation time, default table expiration, last modified time, data location, and description. A 'Create new' dropdown menu is open, showing options like 'SQL query', 'Python notebook', 'Data canvas', 'PySpark procedure', 'Data preparation', and 'Workflow'.

- Salin link sql dari chatgpt tadi

The screenshot shows the Google Cloud BigQuery console interface with a SQL query being executed. The top navigation bar and banners are the same as in the previous screenshot. The 'Explorer' section on the left shows the same tree view of resources. The 'Dataset info' section is still visible. The main content area now shows a SQL query editor with the following query:

```
1 SELECT
2   penjualan.produk_id,
3   produksi.produksi_id,
4   produksi.tanggal_mulai,
5   SUM(penjualan.jumlah_terjual) AS total_terjual
6 FROM
7   `ananda-aulia-hanief.company.tabel_penjualan` AS penjualan
8 JOIN
9   `ananda-aulia-hanief.company.tabel_produksi` AS produksi
10  ON
11   penjualan.produk_id = produksi.produk_id
12 WHERE
```

Below the query editor, the 'Query results' section is visible, showing the results of the query. The status bar at the bottom indicates that the query is completed.

- Lalu tekan run dan hasil akan muncul

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The screenshot shows the Google Cloud BigQuery console interface. The left sidebar contains a navigation menu with categories like Project queries, Notebooks, Data canvases, Data preparations, Workflows, External connections, and Perusahaan03. The main panel displays the query results for the query 'Mencari jumlah penjualan tertinggi'. The query is ordered by 'total_terjual' in descending order. The results table shows three rows of data.

Row	produk_id	produksi_id	tanggal_mulai	total_terjual
1	8	2	2023-10-31	416
2	8	20	2023-09-21	416
3	15	12	2023-11-21	336

Below the query results, there is a 'Job history' section with tabs for 'PERSONAL HISTORY' and 'PROJECT HISTORY'. The bottom of the screen shows the Windows taskbar with the search bar and various application icons.

- Lalu tekan open in, pilih looker studio

This screenshot is similar to the previous one, but the 'OPEN IN' dropdown menu is open, showing four options: 'Sheets', 'Looker Studio', 'Python notebook', and 'Data canvas'. The 'Looker Studio' option is highlighted. The background shows the same query results table.

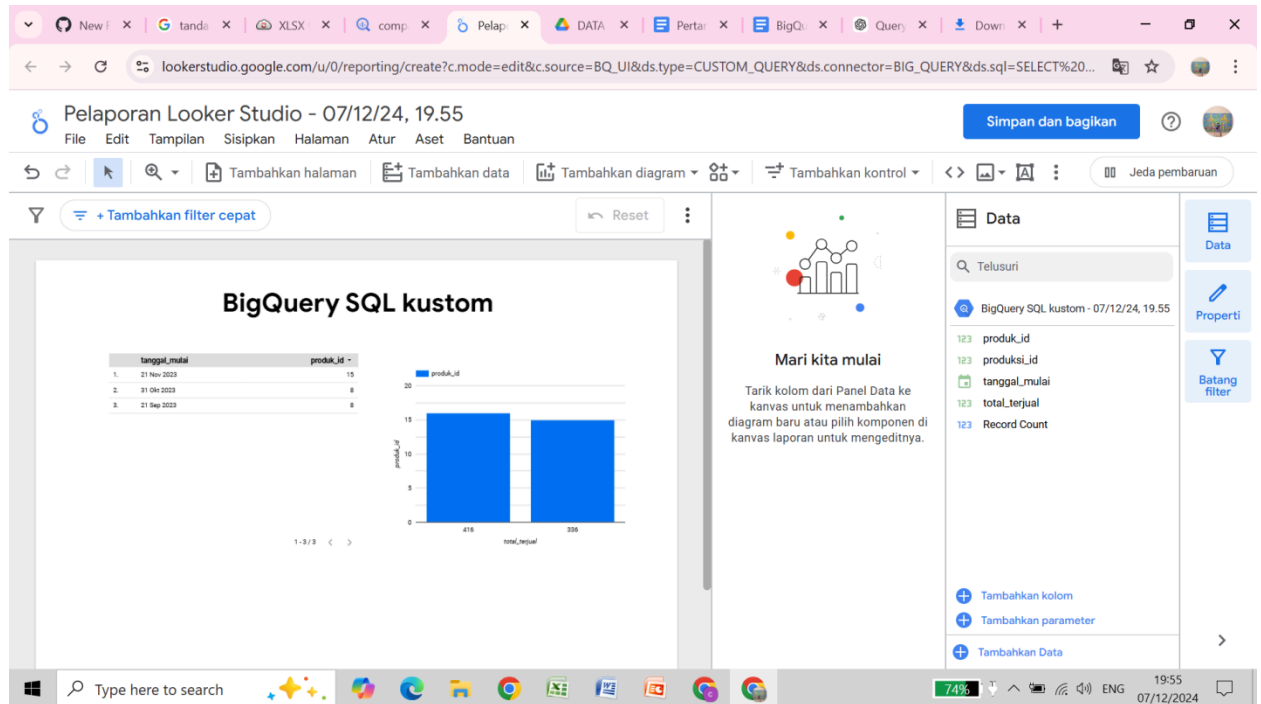
Row	produk_id	produksi_id	tanggal_mulai	total_terjual
1	8	2	2023-10-31	416
2	8	20	2023-09-21	416
3	15	12	2023-11-21	336

- Jika sql benar, maka hasilnya akan keluar sebagai berikut:

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- Save query classic dan rename dengan mencari hasil penjualan tertinggi selama 6 bulan

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This screenshot shows the Google Cloud BigQuery console interface. The top navigation bar includes the Google Cloud logo, the user name 'Ananda-Aulia-Hanief', and a search bar. Below the navigation bar, there are promotional banners for a free trial and account security. The main interface is divided into three sections: Explorer, Query Editor, and Query Results. The Explorer on the left shows the project 'ananda-aulia-hanief' with a list of queries, including 'Mencari jumlah penjualan te...' and 'Mencari penjualan tertinggi'. The Query Editor in the center displays a SQL query:

```
SELECT
  `ananda-aulia-hanief.company.tabel_produk` AS produksi
FROM
  penjualan
WHERE
  penjualan.produk_id = produksi.produk_id
  AND DATE(penjualan.tanggal_penjualan) BETWEEN '2023-01-01' AND '2023-06-30'
  AND MOD(produksi.produk_id, 2) = 0
GROUP BY
  penjualan.produk_id, produksi.produk_id, produksi.tanggal_mulai
ORDER BY
  total_terjual DESC
```

 The Query Results section at the bottom is currently empty. The Windows taskbar at the bottom shows the system clock as 19:56 on 07/12/2024.

This screenshot shows the same Google Cloud BigQuery console interface, but with a context menu open over the 'Mencari jumlah...' query. The menu options are: 'Save query (Classic)', 'Save query as...', and 'Save copy as view'. The 'Save query (Classic)' option is highlighted. The SQL query in the editor is the same as in the previous screenshot. The Windows taskbar at the bottom shows the system clock as 19:55 on 07/12/2024.