NAMA: HARISA ELVAWANY SIALLAGAN

NIM : 40011423650237 / KELAS F

SISTEM INFORMASI AKUNTANSI

DATA ANALITIK PERUSAHAAN

1.   Buatlah database perusahaan yang berisi tentang peroduksi, persediaan dan penjualan dengan tabel tabelnya beserta struktur table dan buatlah 20 baris dari masing masing table tersebut

JAWAB:

Struktur Database: Perusahaan

1. Tabel Produk

produksi_id	produk_id	tanggal_produksi	jumlah_produksi	biaya_produksi
1	1	01/01/2023	100	1,000,000
2	2	05/01/2023	150	1,500,000
3	3	10/01/2023	200	2,000,000
4	4	15/01/2023	300	3,000,000
5	1	20/01/2023	100	1,000,000
6	2	25/01/2023	150	1,500,000
7	3	01/02/2023	200	2,000,000
8	4	05/02/2023	300	3,000,000
9	1	10/02/2023	100	1,000,000
10	2	15/02/2023	150	1,500,000
11	3	20/02/2023	200	2,000,000
12	4	25/02/2023	300	3,000,000
13	1	01/03/2023	100	1,000,000
14	2	05/03/2023	150	1,500,000
15	3	10/03/2023	200	2,000,000
16	4	15/03/2023	300	3,000,000
17	1	20/03/2023	100	1,000,000
18	2	25/03/2023	150	1,500,000
19	3	30/03/2023	200	2,000,000
20	4	01/04/2023	300	3,000,000

2. table Penjualan

penjualan_id	tanggal	jumlah	total_penjualan	karyawan_id
1	01/01/2023	50	5,000,000	1
2	05/01/2023	100	10,000,000	2
3	10/01/2023	75	7,500,000	3
4	15/01/2023	120	12,000,000	4
5	20/01/2023	80	8,000,000	1
6	25/01/2023	60	6,000,000	2
7	01/02/2023	110	11,000,000	3
8	05/02/2023	90	9,000,000	4
9	10/02/2023	95	9,500,000	1
10	15/02/2023	70	7,000,000	2
11	20/02/2023	85	8,500,000	3
12	25/02/2023	65	6,500,000	4
13	01/03/2023	130	13,000,000	1
14	05/03/2023	75	7,500,000	2
15	10/03/2023	105	10,500,000	3
16	15/03/2023	95	9,500,000	4
17	20/03/2023	115	11,500,000	1
18	25/03/2023	100	10,000,000	2
19	30/03/2023	85	8,500,000	3
20	01/04/2023	120	12,000,000	4

3. table Persediaan

persediaan_id	produk_id	tanggal	jumlah_masuk	jumlah_keluar	stok_akhir
1	1	01/01/2023	100	50	50
2	2	03/01/2023	150	60	90
3	3	05/01/2023	200	75	125
4	4	10/01/2023	300	80	220
5	1	15/01/2023	100	50	150
6	2	20/01/2023	150	70	80
7	3	25/01/2023	200	90	110
8	4	01/02/2023	300	100	200
9	1	05/02/2023	100	65	235
10	2	10/02/2023	150	75	75
11	3	15/02/2023	200	85	115
12	4	20/02/2023	300	90	210
13	1	25/02/2023	100	50	160
14	2	01/03/2023	150	60	90
15	3	05/03/2023	200	65	135
16	4	10/03/2023	300	70	230
17	1	15/03/2023	100	80	150
18	2	20/03/2023	150	75	75

19	3	25/03/2023	200	90	110
20	4	30/03/2023	300	95	205

Mengconvert File Excel ke bentuk CSV

1. **Produksi**

,"produksi_id","produk_id","tanggal_produksi","jumlah_produksi","biaya_produksi"
,"1","1","1/1/2023","100","1,000,000"
,"2","2","1/5/2023","150","1,500,000"
,"3","3","1/10/2023","200","2,000,000"
,"4","4","1/15/2023","300","3,000,000"
,"5","1","1/20/2023","100","1,000,000"
,"6","2","1/25/2023","150","1,500,000"
,"7","3","2/1/2023","200","2,000,000"
,"8","4","2/5/2023","300","3,000,000"
,"9","1","2/10/2023","100","1,000,000"
,"10","2","2/15/2023","150","1,500,000"
,"11","3","2/20/2023","200","2,000,000"
,"12","4","2/25/2023","300","3,000,000"
,"13","1","3/1/2023","100","1,000,000"
,"14","2","3/5/2023","150","1,500,000"
,"15","3","3/10/2023","200","2,000,000"
,"16","4","3/15/2023","300","3,000,000"
,"17","1","3/20/2023","100","1,000,000"
,"18","2","3/25/2023","150","1,500,000"
,"19","3","3/30/2023","200","2,000,000"
,"20","4","4/1/2023","300","3,000,000"

2. **Penjualan**

,"penjualan_id","tanggal","jumlah","total_penjualan","karyawan_id"
,"1","1/1/2023","50","5,000,000","1"
,"2","1/5/2023","100","10,000,000","2"
,"3","1/10/2023","75","7,500,000","3"
,"4","1/15/2023","120","12,000,000","4"
,"5","1/20/2023","80","8,000,000","1"
,"6","1/25/2023","60","6,000,000","2"
,"7","2/1/2023","110","11,000,000","3"
,"8","2/5/2023","90","9,000,000","4"
,"9","2/10/2023","95","9,500,000","1"
,"10","2/15/2023","70","7,000,000","2"
,"11","2/20/2023","85","8,500,000","3"
,"12","2/25/2023","65","6,500,000","4"
,"13","3/1/2023","130","13,000,000","1"
,"14","3/5/2023","75","7,500,000","2"

,"15","3/10/2023","105","10,500,000","3"
,"16","3/15/2023","95","9,500,000","4"
,"17","3/20/2023","115","11,500,000","1"
,"18","3/25/2023","100","10,000,000","2"
,"19","3/30/2023","85","8,500,000","3"
,"20","4/1/2023","120","12,000,000","4"

3. Persediaan

,"Tabel Persediaan","","","","",""
,"","","","","",""
, , , , , , ,
,"persediaan_id","produk_id","tanggal","jumlah_masuk","jumlah_keluar","stok_akhir"
,"1","1","1/1/2023","100","50","50"
,"2","2","1/3/2023","150","60","90"
,"3","3","1/5/2023","200","75","125"
,"4","4","1/10/2023","300","80","220"
,"5","1","1/15/2023","100","50","150"
,"6","2","1/20/2023","150","70","80"
,"7","3","1/25/2023","200","90","110"
,"8","4","2/1/2023","300","100","200"
,"9","1","2/5/2023","100","65","235"
,"10","2","2/10/2023","150","75","75"
,"11","3","2/15/2023","200","85","115"
,"12","4","2/20/2023","300","90","210"
,"13","1","2/25/2023","100","50","160"
,"14","2","3/1/2023","150","60","90"
,"15","3","3/5/2023","200","65","135"
,"16","4","3/10/2023","300","70","230"
,"17","1","3/15/2023","100","80","150"
,"18","2","3/20/2023","150","75","75"
,"19","3","3/25/2023","200","90","110"
,"20","4","3/30/2023","300","95","205"

2. Coba buatkan pertanyaan terkait data analytic di atas mengenai tanggal produksi dari 1 januari sampai 1 april dengan penjualan terbanyak

JAWAB:

1. Produk apa yang diproduksi paling banyak dari tanggal 1 Januari hingga 1 April, dan bagaimana hubungannya dengan penjualan tertinggi pada periode tersebut?
2. Apakah tanggal produksi tertentu (1 Januari hingga 1 April) yang menunjukkan korelasi dengan tanggal penjualan tertinggi?
3. Berapa total biaya produksi untuk produk yang paling banyak terjual selama periode 1 Januari hingga 1 April?
4. Apakah ada perbedaan antara jumlah produksi dan penjualan harian untuk tanggal-tanggal dengan penjualan tertinggi selama periode ini?
5. Apakah ada produk yang memiliki jumlah produksi tinggi tetapi rendah penjualan pada periode 1 Januari hingga 1 April? Jika ya, produk apa?
6. Berapa rata-rata jumlah produksi per hari untuk produk yang terjual terbanyak dari 1 Januari hingga 1 April?
7. Bagaimana biaya produksi dibandingkan dengan total penjualan untuk produk dengan penjualan tertinggi selama periode tersebut?
8. Pada tanggal-tanggal dengan produksi tertinggi dari 1 Januari hingga 1 April, apakah terjadi peningkatan penjualan juga pada tanggal-tanggal tersebut?
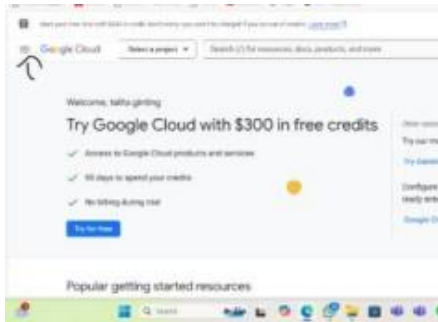
4. **Mengupload data kedalam Google BIG QUERY**

Langkah 1 Kita masuk dulu ke **bigquery overview**
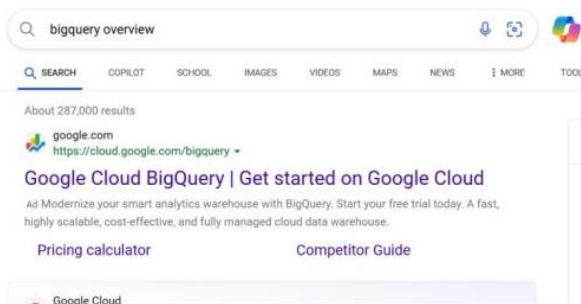
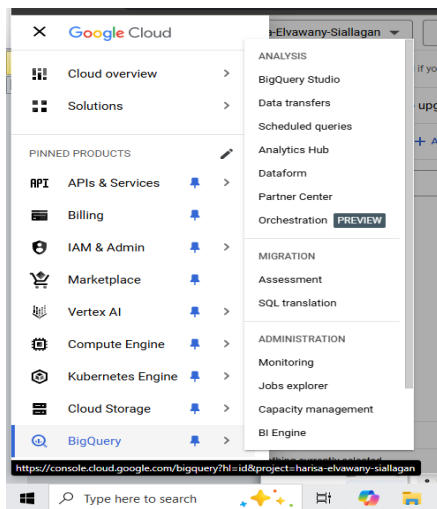**Langkah 2** Setelah kita masuk ke *website* nya maka kita *click console*
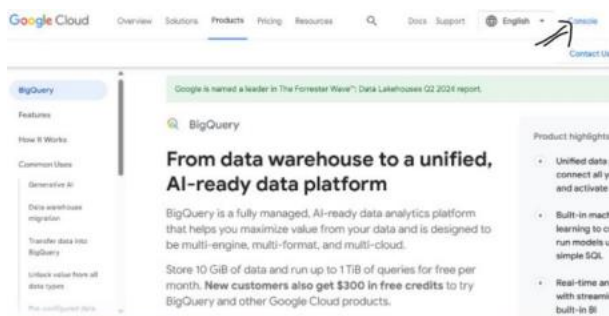
Langkah 3 Setelah kita meng click console maka akan timbul gambar dan tinggal meng click 2 kolom yang ada dan tekan agree dan continue maka akan muncul gambar seperti ini:
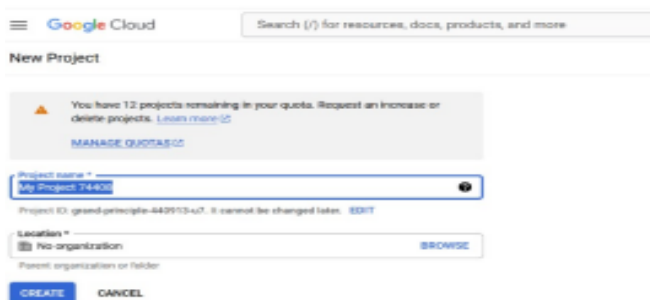
setelah itu click garis 3 di atas

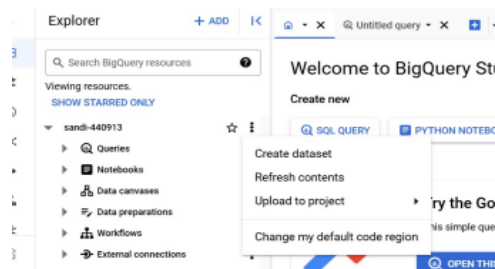**Langkah 4** Klik bigquery dan setelah itu klik Bigquery Studio

Langkah 5 Maka akan muncul gambar : lalu tekan create project

Langkah 6 setelah itu bakalan muncul seperti ini, bisa ngisi project name, isi dengan nama, setelah itu klik create
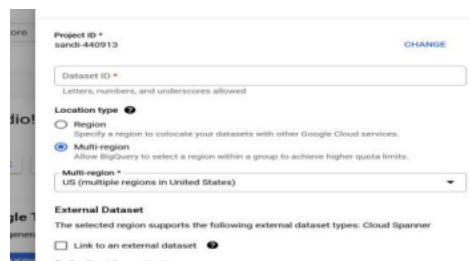

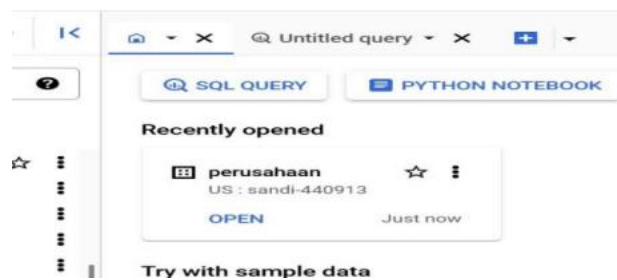Setelah itu akan muncul gambar di atas setelah itu klik *done*

Langkah 7

Setelah itu klik titik 3 dari kata sandi dan klik *create database*
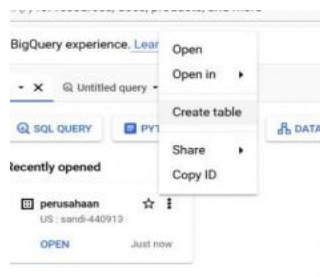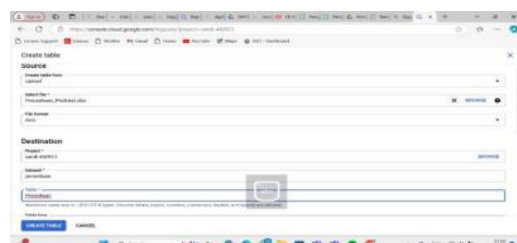
Langkah 8

Setelah itu akan muncul seperti gambar di atas, kita bisa mengisi database dengan nama perusahaan setelah itu tinggal di clik *create* maka akan muncul seperti ini:

Klik titik 3 kemudian akan muncul sperti ini, dan tekan *creat table*

Langkah 9

Setelah nya bakalan muncul seperti gambar di atas , upload lah masing masing data (produksi, penjualan, persediaan) yang sudah berbentuk CSV

Hasil nya akan seperti ini: