# PROJECT III

HILDA MEIRANITA PRASTIKA DEWI

Dashboard Report

1. Column chart supplier (company_name) gross revenue tiap bulan
   (datamart_monthly_supplier_gross_revenue_hilda)
2. Tabel kategori produk paling banyak terjual tiap bulan
   (datamart_monthly_category_sold_hilda)
3. Geo map negara (ship_countru) pembelian berdasarkan gross revenue per bulan
   (datamart_monthly_country_gross_revenue_hilda)
4. Line chart gross revenue total per hari dalam satu bulan
   (datamart_daily_gross_revenue_hilda)
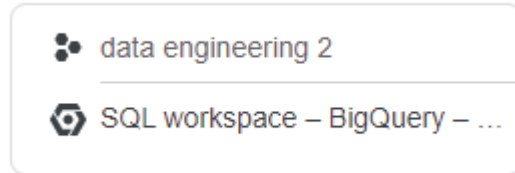
Gross revenue = (Harga – Diskon)*Jumlah Barang)
**Diskon -> persen 0.1 = 10%

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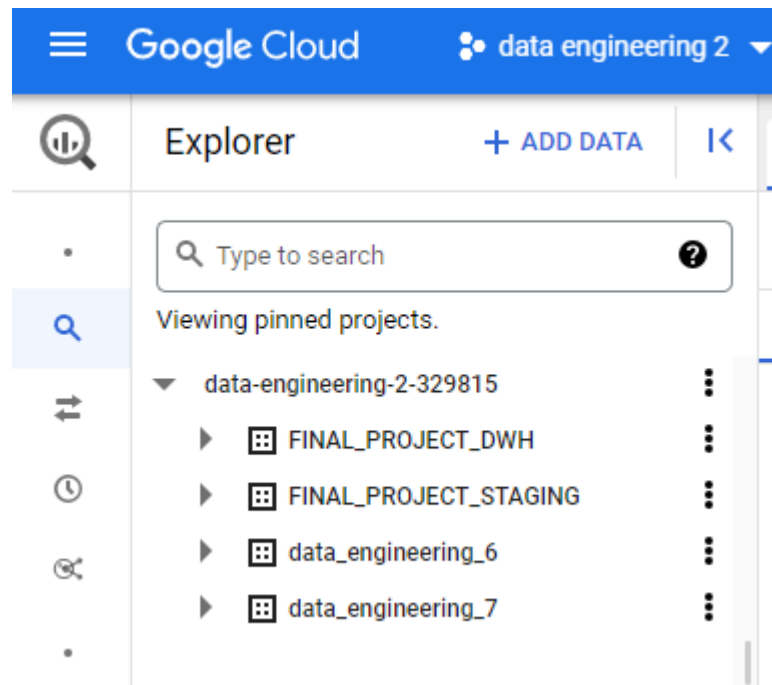
Relasi antar tabel
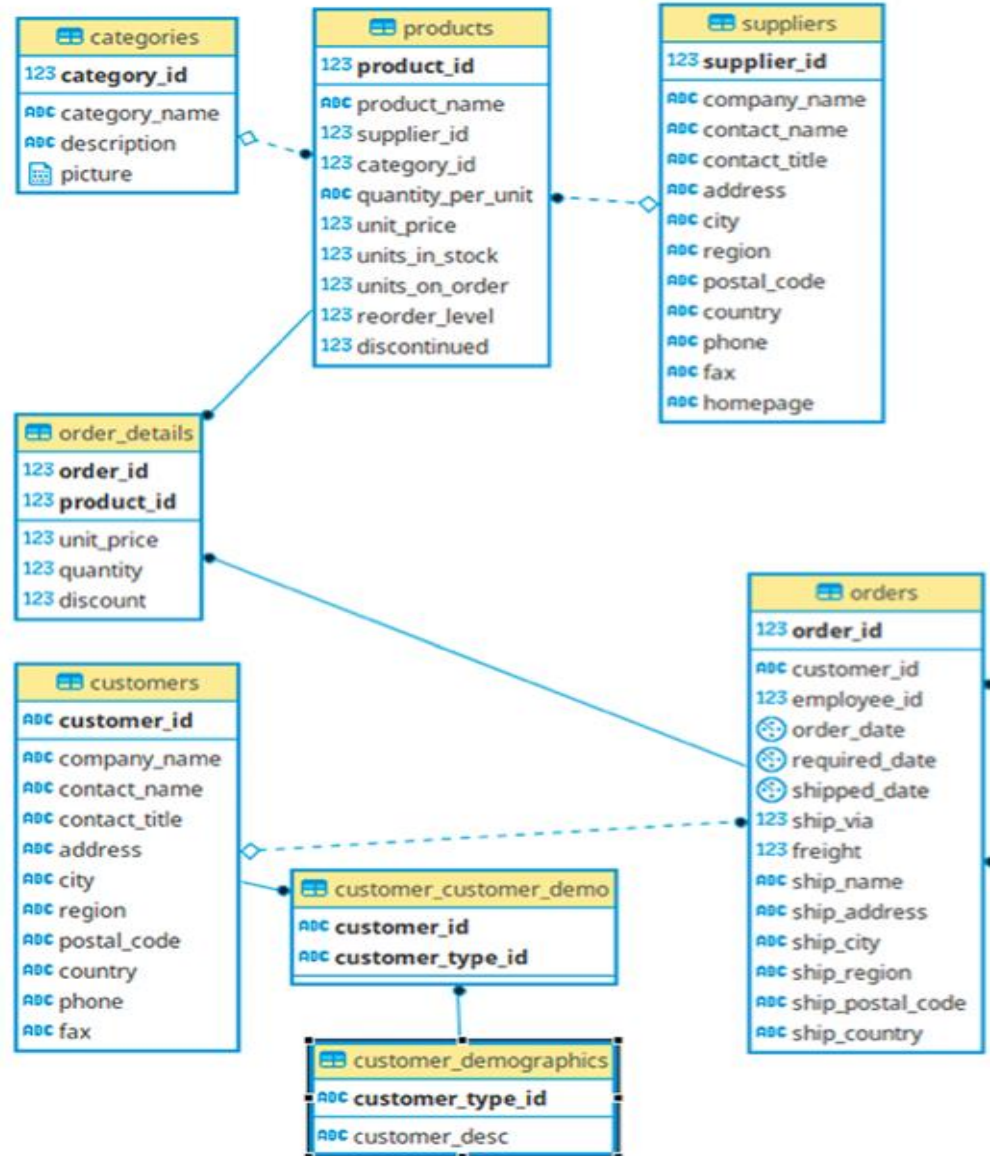
Setting up data source to data studio

1. Membuka Google Cloud Platform. Pilih data engineering 2

2. Membuat query pada table data_engineering_6

Setting up data source to data studio

3. Membuat tabel
   (datamart_monthly_supplier_gross_revenue_hilda)

```sql
1  create table `data-engineering-2-329815.data_engineering_6.
   datamart_monthly_supplier_gross_revenue_hilda` as
2  SELECT d.company_name,
3  extract(MONTH FROM order_date) as month,
4  extract(YEAR FROM order_date) as year,
5  sum((1-discount) * b.unit_price * b.quantity) as gross_revenue
6  FROM `data-engineering-2-329815.data_engineering_6.orders` as a
7  join `data-engineering-2-329815.data_engineering_6.order_details` as b
8  on a.order_id = b.order_id
9  join `data-engineering-2-329815.data_engineering_6.products` as c
10 on b.product_id = c.product_id
11 join `data-engineering-2-329815.data_engineering_6.suppliers` as d
12 on c.supplier_id = d.supplier_id
13 group by d.company_name,month,year
```

4. Membuat tabel
   (datamart_monthly_category_sold_hilda)

```sql
1  create table `data-engineering-2-329815.data_engineering_6.
   datamart_monthly_category_sold_hilda` as
2  SELECT d.category_name,
3  extract(MONTH FROM order_date) as month,
4  extract(YEAR FROM order_date) as year,
5  sum(b.quantity) as quantity
6  FROM `data-engineering-2-329815.data_engineering_6.orders` as a
7  join `data-engineering-2-329815.data_engineering_6.order_details` as b
8  on a.order_id = b.order_id
9  join `data-engineering-2-329815.data_engineering_6.products` as c
10 on b.product_id = c.product_id
11 join `data-engineering-2-329815.data_engineering_6.categories` as d
12 on c.category_id = d.category_id
13 group by d.category_name,month,year
```

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3. Membuat tabel (datamart_monthly_country_gross_revenue_hilda)

```
1   create table `data-engineering-2-329815.data_engineering_6.
    datamart_monthly_country_gross_revenue_hilda` as
2   SELECT a.ship_country,
3   extract(MONTH FROM order_date) as month,
4   extract(YEAR FROM order_date) as year,
5   sum((1-discount) * b.unit_price * b.quantity) as gross_revenue
6   FROM `data-engineering-2-329815.data_engineering_6.orders` as a
7   join `data-engineering-2-329815.data_engineering_6.order_details` as b
8   on a.order_id = b.order_id
9   group by a.ship_country,month,year
```

4. Membuat tabel (datamart_daily_gross_revenue_hilda)

```
1   create table `data-engineering-2-329815.data_engineering_6.
    datamart_daily_gross_revenue_hilda` as
2   SELECT a.order_date,
3   extract(MONTH FROM order_date) as month,
4   extract(YEAR FROM order_date) as year,
5   sum((1-discount) * b.unit_price * b.quantity) as gross_revenue
6   FROM `data-engineering-2-329815.data_engineering_6.orders` as a
7   join `data-engineering-2-329815.data_engineering_6.order_details` as b
8   on a.order_id = b.order_id
9   group by a.order_date,month,year
```

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Setting up data source to data studio

5. Mengimport data pada google cloud platform ke data studio. Pilih BigQuery ketika mengimport data pada data studio

Datamart Monthly Report
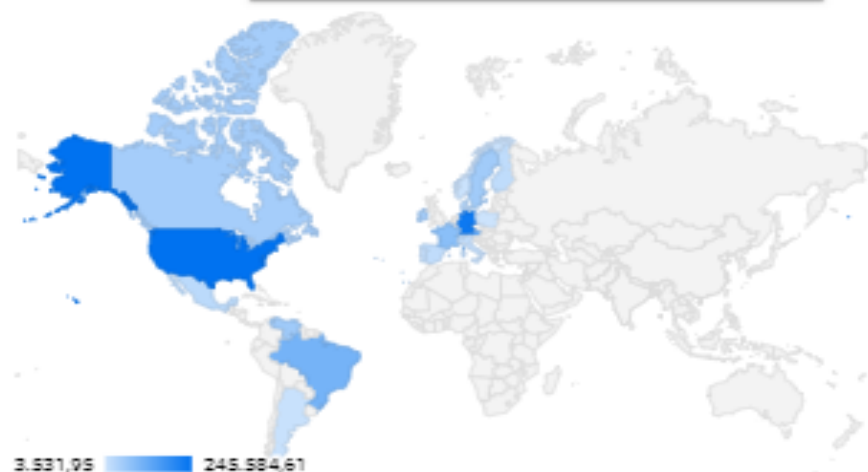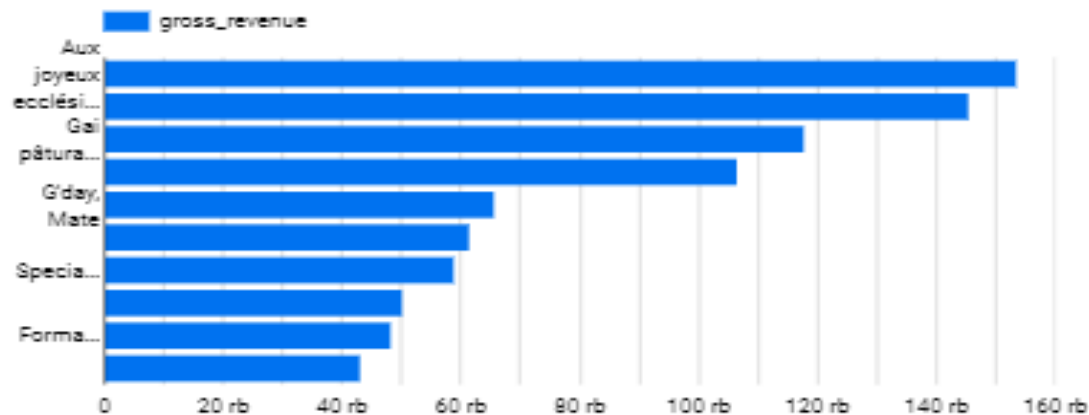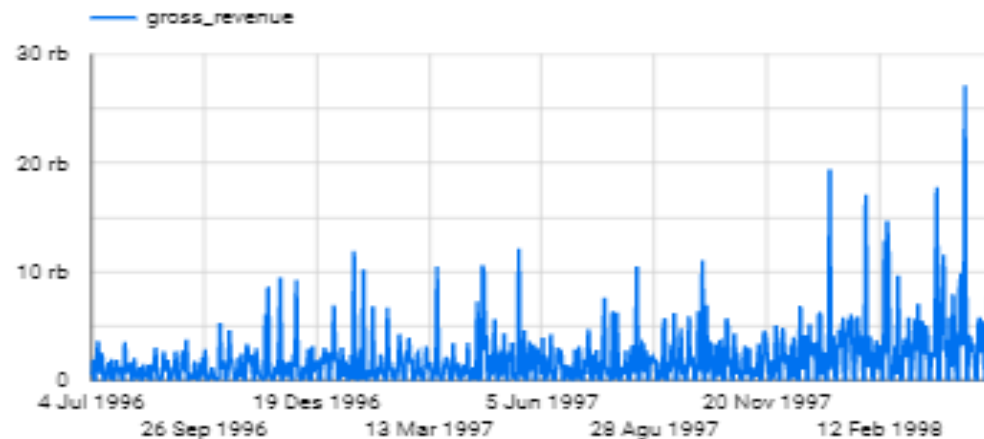
Map of Total Gross Revenue

gross_revenue   3.531,95 · ● ⬤   245.584,61