

# Making Dashboard using SQL and Excel

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10th Grade





# Table of contents

**01** Data Understanding

**02** SQL Query

**03** Excel Dashboard

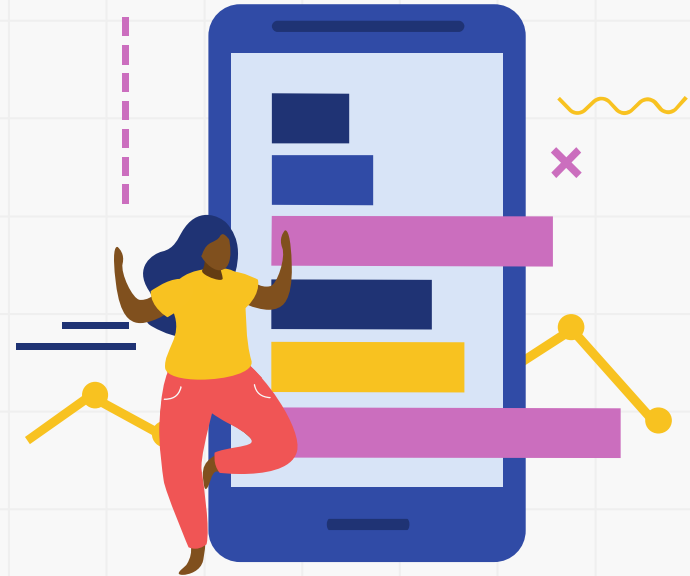




# 01 Data Understanding

# Data Understanding

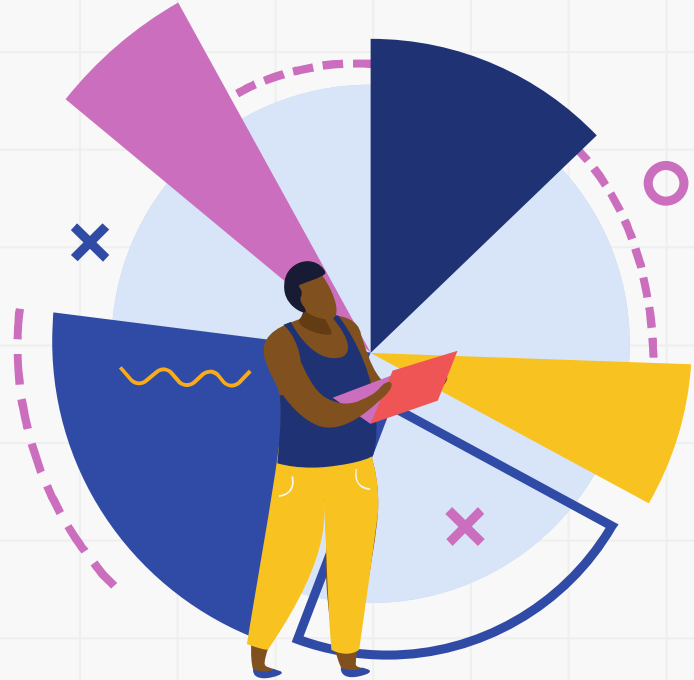
1. Data yang digunakan telah tersedia. Bisa diakses pada tautan berikut. **Klik Link**
2. Pada data yang digunakan , terdiri dari 3 tabel yaitu tabel product, customer, dan order.
3. Setiap tabel memiliki jumlah kolom dan baris yang berbeda. :
  - Tabel Customer berisi 794 rows (termasuk label data) dan 8 kolom (customer id, customer name, segment, country, state, postal code, region, city).
  - Tabel product berisi 1863 rows (termasuk label data) dan 4 kolom (product id, category, product name, sub category).
  - Tabel Order berisi 5010 rows (termasuk label data) dan 10 kolom ( order id, customer id, product id, order date, ship date, ship mode, sales, quantity, profit, discount).

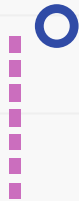


02

# SQL Query

Query yang digunakan untuk mengambil data dari database.





```
select * from project_customers;

select * from project_orders;

select * from project_products;

create table combined_table_indah as
  select c.customer_id ,p.product_id ,o.order_id,
         c.customer_name, c.segment ,c.country, c.state ,c.postal_code, c.region, c.city,
         o.order_date ,o.ship_date,o.ship_mode ,o.sales ,o.quantity ,o.profit,o.discount,
         p.category,p.product_name ,p.sub_category
  FROM project_customers c
       INNER JOIN project_orders o ON c.customer_id = o.customer_id
       INNER JOIN project_products p ON o.product_id = p.product_id;

select * from combined_table_indah;

select sum(sales) as total_sales from combined_table_indah;

select sum(quantity) as total_product_sold from combined_table_indah;


select sum(profit) as total_profit from combined_table_indah;

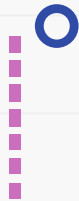
select count(distinct order_id) as total_order from combined_table_indah;

select count(distinct product_name) as total_jenis_produk from combined_table_indah;

select count(distinct country) as total_order from combined_table_indah;

select count(distinct customer_id) as total_customer from combined_table_indah;
```





```
--daily trend
```

```
select extract(ISODOW from order_date) as order_day , count(distinct order_id)as total_orders
from combined_table_indah
group by extract(ISODOW from order_date)
order by total_orders desc;
```

```
--monthly trend
```

```
select extract(month from order_date) as order_month , count(distinct order_id)as total_orders
from combined_table_indah
group by extract(month from order_date)
order by total_orders desc;
```

```
--total shipping
```

```
select extract(ISODOW from ship_date) as shipping_day , count(distinct order_id)as total_orders
from combined_table_indah
group by extract(ISODOW from ship_date)
order by total_orders desc;
```

```
--sales by category
```


```
select category , cast(sum(sales)as decimal(10,2)) as total_revenue ,
      cast(sum(sales)*100/(select sum(sales) from combined_table_indah) as decimal(10,2))as pct
from combined_table_indah
group by category;
```

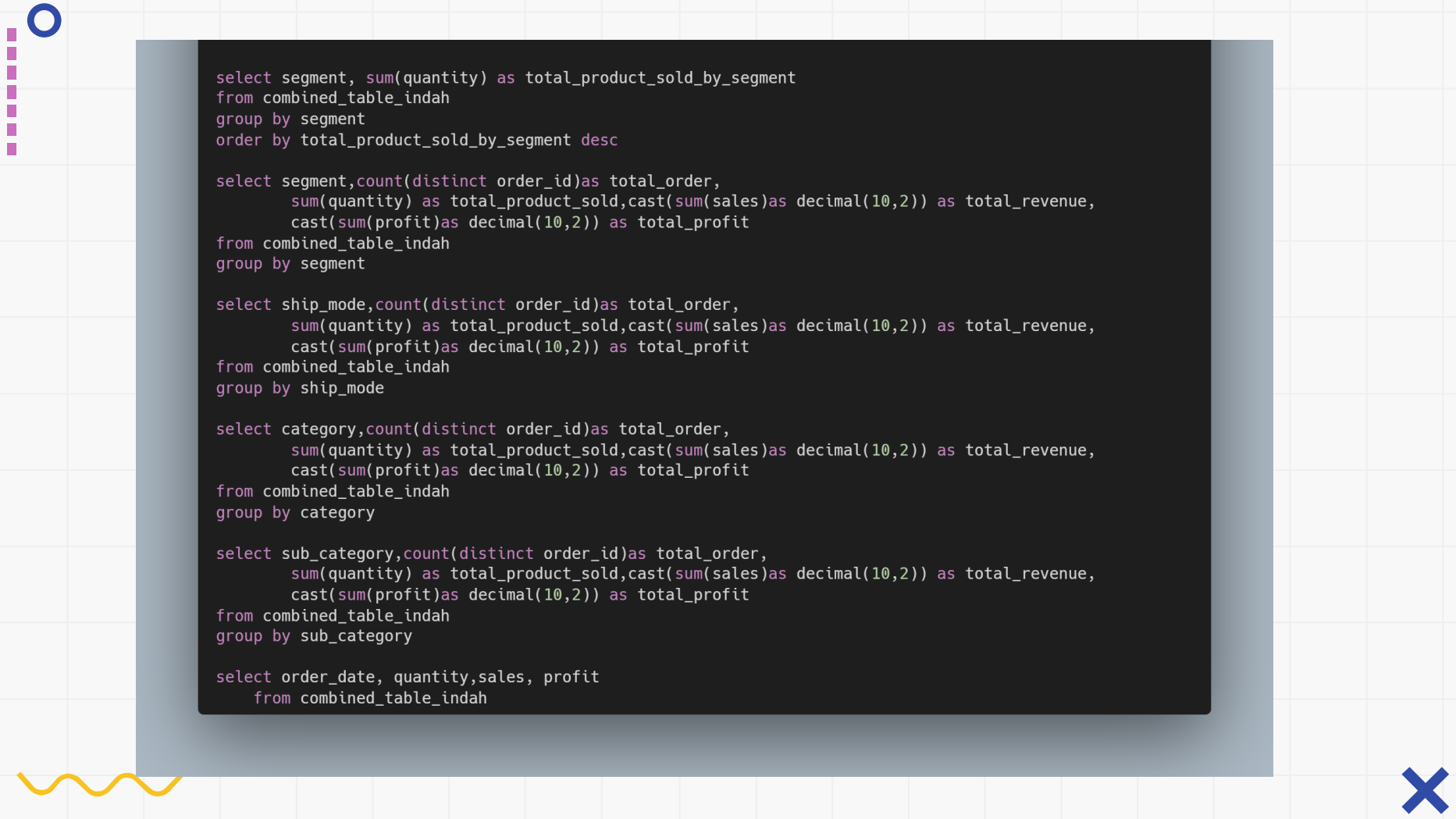
```
--total order by category
```

```
select category, count(distinct order_id)as total_orders ,
      cast(count(distinct order_id)*100/(select count(distinct order_id) from combined_table_indah) as
decimal(10,2))as pct
from combined_table_indah
group by category;
```

```
--top 5 best seller sub_category
```

```
select sub_category, sum(quantity) as total_product_sold
from combined_table_indah
group by sub_category
order by total_product_sold desc
limit 5
```





```
select segment, sum(quantity) as total_product_sold_by_segment
from combined_table_indah
group by segment
order by total_product_sold_by_segment desc

select segment, count(distinct order_id) as total_order,
       sum(quantity) as total_product_sold, cast(sum(sales) as decimal(10,2)) as total_revenue,
       cast(sum(profit) as decimal(10,2)) as total_profit
from combined_table_indah
group by segment

select ship_mode, count(distinct order_id) as total_order,
       sum(quantity) as total_product_sold, cast(sum(sales) as decimal(10,2)) as total_revenue,
       cast(sum(profit) as decimal(10,2)) as total_profit
from combined_table_indah
group by ship_mode

select category, count(distinct order_id) as total_order,
       sum(quantity) as total_product_sold, cast(sum(sales) as decimal(10,2)) as total_revenue,
       cast(sum(profit) as decimal(10,2)) as total_profit
from combined_table_indah
group by category

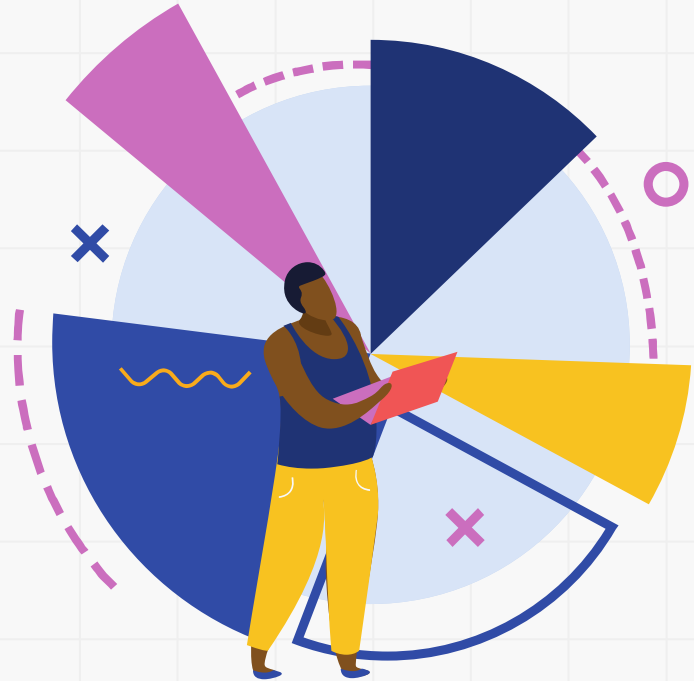
select sub_category, count(distinct order_id) as total_order,
       sum(quantity) as total_product_sold, cast(sum(sales) as decimal(10,2)) as total_revenue,
       cast(sum(profit) as decimal(10,2)) as total_profit
from combined_table_indah
group by sub_category

select order_date, quantity, sales, profit
from combined_table_indah
```



02

# Excel Dashboard



Add Filter

2014

2015

2016

2017

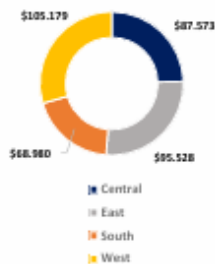
Central

East

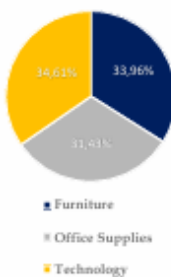
South

West

Jumlah Sales



% Sales by Category



Jumlah Sales

\$ 1.099.862

Jumlah Profit

\$ 132.516

Jumlah Transaksi

5.009

Jumlah Produk Terjual

19.044

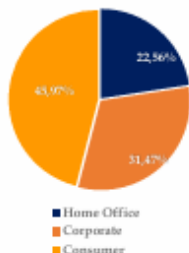
Top 5 Sales by sub-category



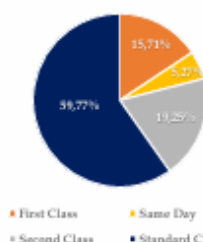
Top 5 Sales by State



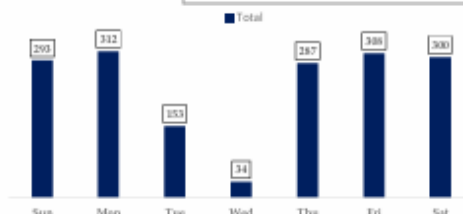
% Sales by Segment



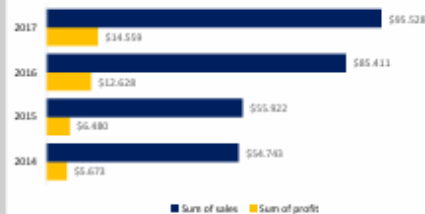
% Total Order by Ship mode



Daily Volume



Jumlah Sales &amp; Profit



Monthly Volume Shipment



Monthly Volume Order





# Thanks!

**Do you have any questions?**

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