

# HOMework 1 - SQL

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DATA SCIENCE BATCH 54 DIGITAL SKOLA

NI LUH GEDE NANDA ANJASWARI RAI

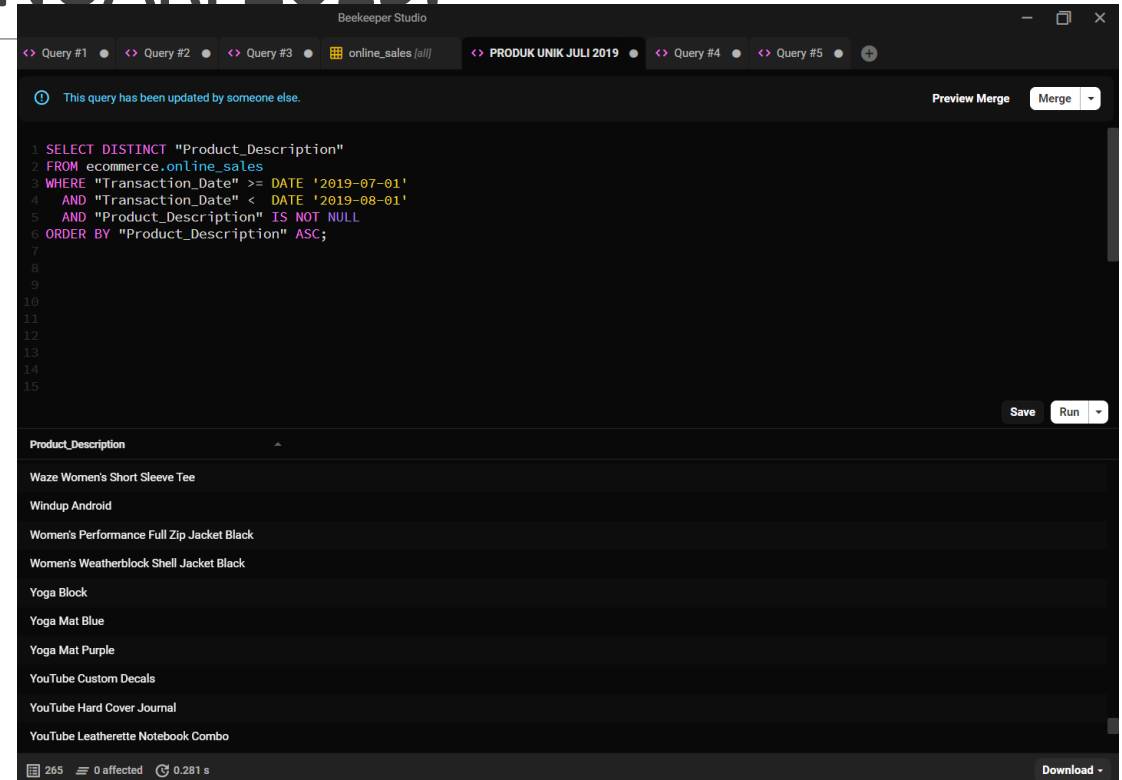


# 1. MENAMPILKAN DAFTAR PRODUK UNIK YANG TERJUAL DI BULAN JANUARI 2019.

```
SELECT DISTINCT "Product_Description"  
FROM ecommerce.online_sales  
WHERE "Transaction_Date" >= DATE '2019-07-01'  
AND "Transaction_Date" < DATE '2019-08-01'  
AND "Product_Description" IS NOT NULL  
ORDER BY "Product_Description" ASC;
```

**LINK HASIL BENTUK EXCEL:**

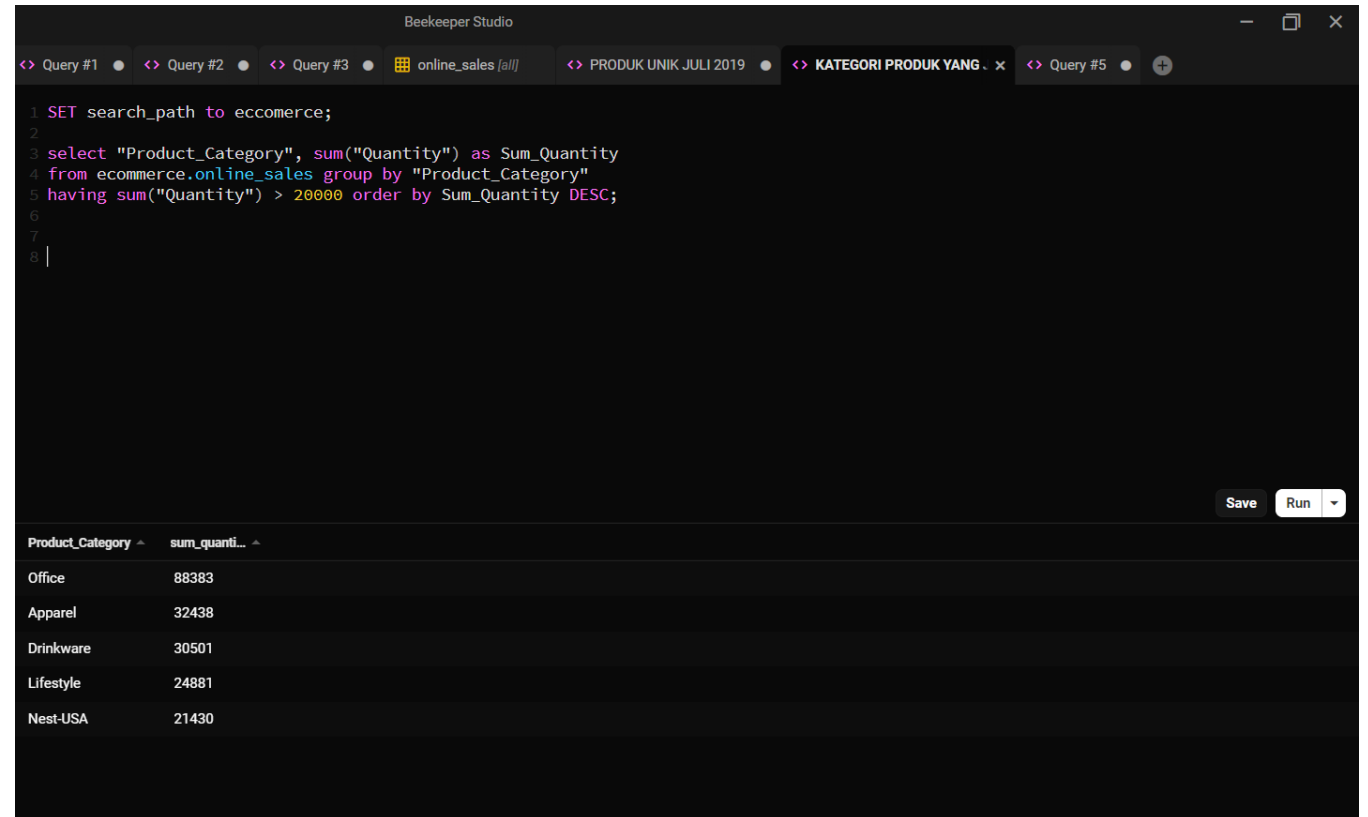
[https://docs.google.com/spreadsheets/d/16LzWc-DukHbc97F4YcxjAsinG\\_4loQEh/edit?usp=sharing&oui d=111092145908713030212&rtpof=true&sd=true](https://docs.google.com/spreadsheets/d/16LzWc-DukHbc97F4YcxjAsinG_4loQEh/edit?usp=sharing&oui d=111092145908713030212&rtpof=true&sd=true)



## 2. MENAMPILKAN DAFTAR KATEGORI PRODUK YANG JUMLAH PENJUALAN PRODUKNYA LEBIH DARI 2000

SET search\_path to ecommerce;

```
select "Product_Category", sum("Quantity") as  
Sum_Quantity  
from ecommerce.online_sales group by  
"Product_Category"  
having sum("Quantity") > 20000 order by  
Sum_Quantity DESC;
```



The screenshot shows the Beekeeper Studio interface. The top bar displays the title 'Beekeeper Studio' and several tabs: 'Query #1', 'Query #2', 'Query #3', 'online\_sales [all]', 'PRODUK UNIK JULI 2019', 'KATEGORI PRODUK YANG ...', and 'Query #5'. The main editor area contains the following SQL code:

```
1 SET search_path to ecommerce;  
2  
3 select "Product_Category", sum("Quantity") as Sum_Quantity  
4 from ecommerce.online_sales group by "Product_Category"  
5 having sum("Quantity") > 20000 order by Sum_Quantity DESC;  
6  
7  
8 |
```

Below the editor, there is a 'Save' button and a 'Run' button. The results of the query are displayed in a table with two columns: 'Product\_Category' and 'sum\_quantit...'. The table contains five rows of data:

Product_Category	sum_quantit...
Office	88383
Apparel	32438
Drinkware	30501
Lifestyle	24881
Nest-USA	21430

### 3. MENGHITUNG RATA-RATA GMV UNTUK SELURUH PENJUALAN KATEGORI BAGS

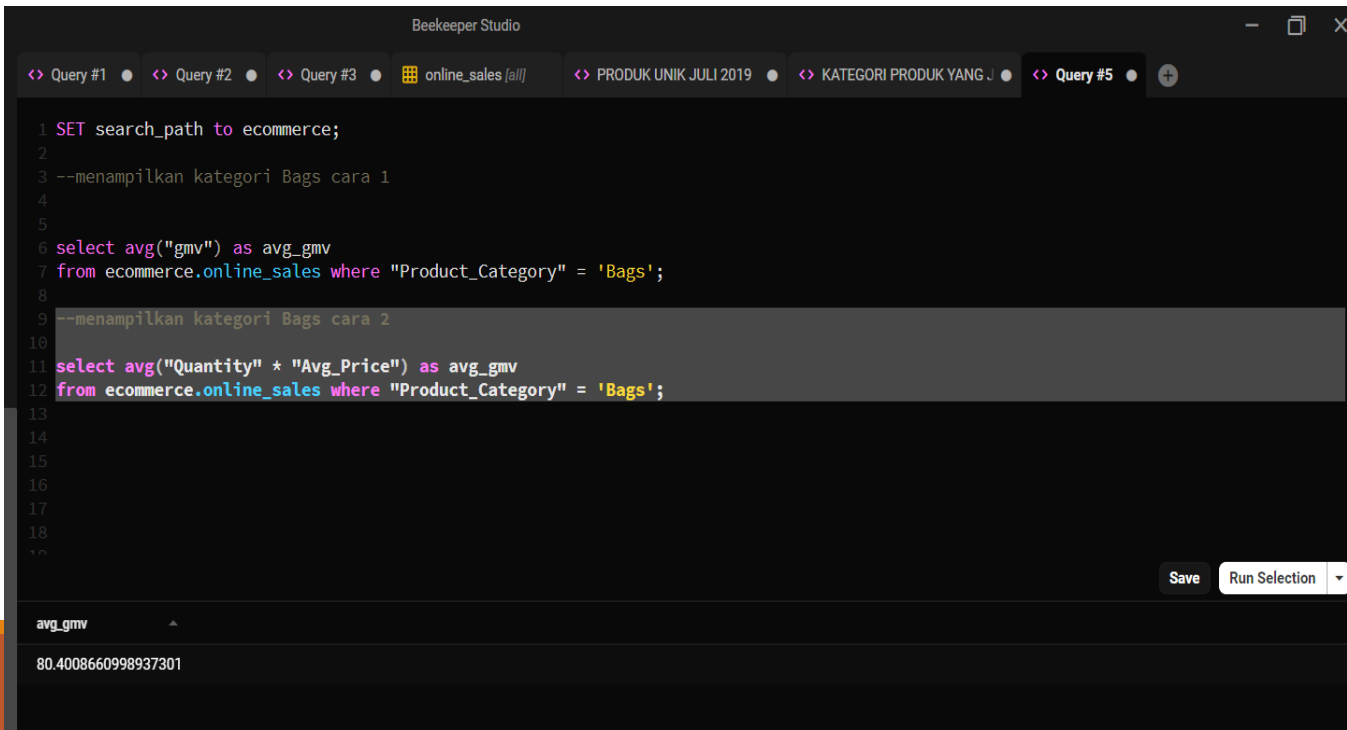
```
SET search_path to ecommerce;

--menampilkan kategori Bags cara 1

select avg("gmv") as avg_gmv
from ecommerce.online_sales where "Product_Category" = 'Bags';
```

--menampilkan kategori Bags cara 2

```
select avg("Quantity" * "Avg_Price") as avg_gmv
from ecommerce.online_sales where "Product_Category" = 'Bags';
```

A screenshot of the Beekeeper Studio application interface. The top bar shows several tabs: 'Query #1', 'Query #2', 'Query #3', 'online\_sales [all]', 'PRODUK UNIK JULI 2019', 'KATEGORI PRODUK YANG', and 'Query #5'. The main editor area contains SQL code for two queries. Query #1 (lines 1-8) sets the search path to 'ecommerce' and calculates the average GMV for the 'Bags' category using 'gmv' as the column name. Query #2 (lines 9-12) also calculates the average GMV for the 'Bags' category but uses 'Quantity \* Avg\_Price' as the expression. The bottom panel shows the results of the first query, with a single row containing the value '80.4008660998937301' under the column header 'avg\_gmv'.

```
1 SET search_path to ecommerce;
2
3 --menampilkan kategori Bags cara 1
4
5
6 select avg("gmv") as avg_gmv
7 from ecommerce.online_sales where "Product_Category" = 'Bags';
8
9 --menampilkan kategori Bags cara 2
10
11 select avg("Quantity" * "Avg_Price") as avg_gmv
12 from ecommerce.online_sales where "Product_Category" = 'Bags';
13
14
15
16
17
18
19
20
```

avg\_gmv

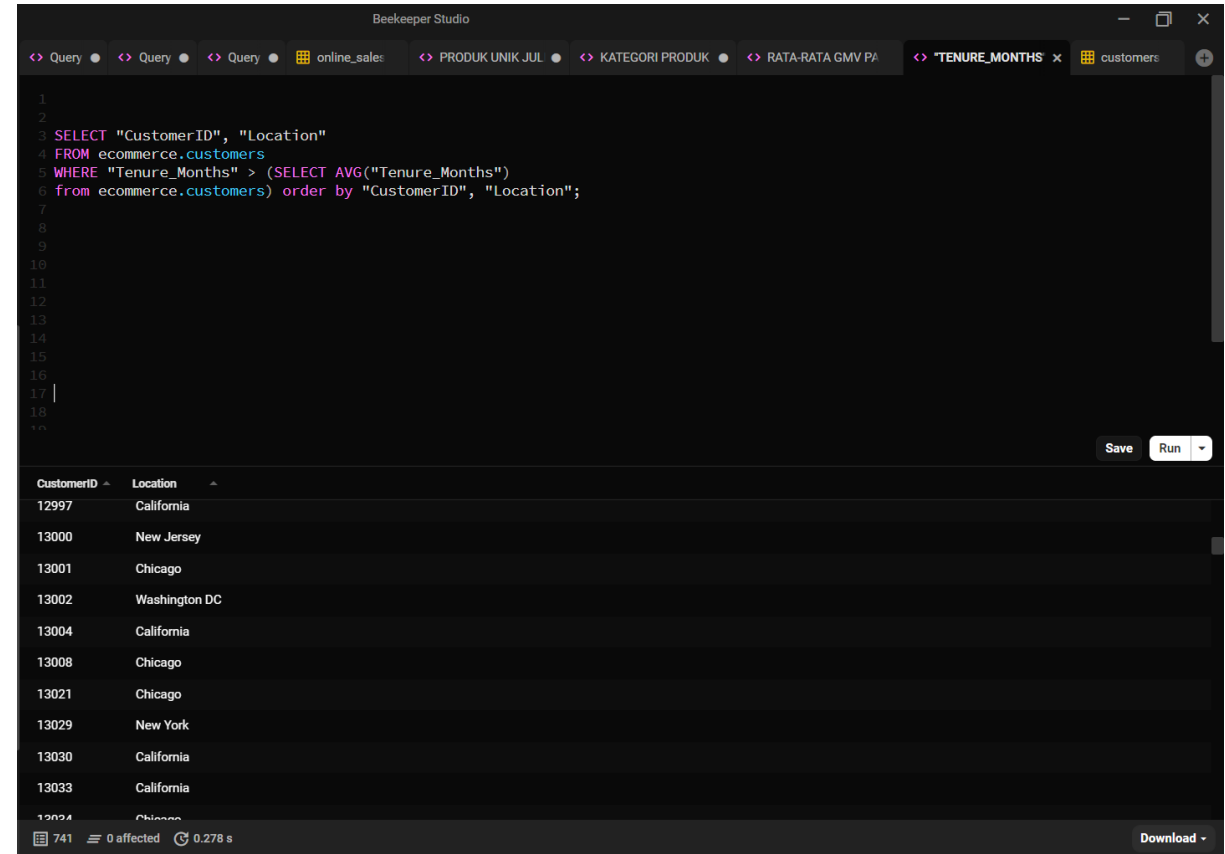
80.4008660998937301

## 4. MENAMPILKAN DAFTAR CUSTOMER “TENURE\_MONTHS” > AVG(“TENURE\_MONTHS”)

```
SELECT "CustomerID", "Location"  
FROM ecommerce.customers  
WHERE "Tenure_Months" > (SELECT AVG("Tenure_Months")  
from ecommerce.customers) order by "CustomerID",  
"Location";
```

LINK HASIL BENTUK EXCEL:

<https://docs.google.com/spreadsheets/d/1sGM3WzmIcfVXUIqITxxRDbL7Mwn0xMsH/edit?usp=sharing&oid=111092145908713030212&rtpof=true&sd=true>



The screenshot shows the Beekeeper Studio interface. The top panel displays a SQL query that filters customers based on their tenure in months, ordering them by CustomerID and Location. The bottom panel shows the resulting data as a table with two columns: CustomerID and Location.

CustomerID	Location
12997	California
13000	New Jersey
13001	Chicago
13002	Washington DC
13004	California
13008	Chicago
13021	Chicago
13029	New York
13030	California
13033	California
13024	Chicago

At the bottom of the interface, a status bar indicates that 741 rows were affected in 0.278 seconds. A 'Download' button is visible in the bottom right corner.

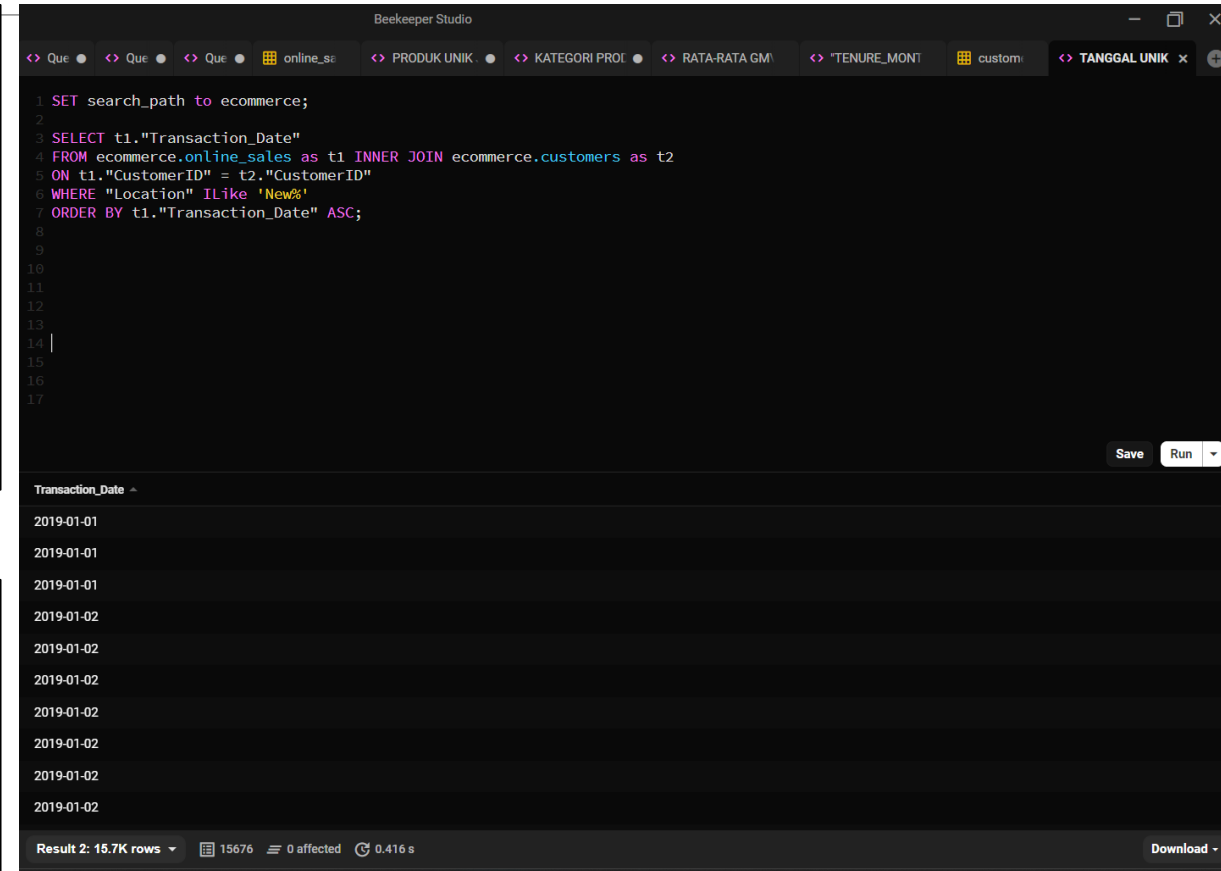
# MENAMPILKAN TANGGAL (UNIK) DENGAN CUSTOMER YANG BERASAL DARI KOTA “NEW”

```
SET search_path to ecommerce;
```

```
SELECT t1."Transaction_Date"  
FROM ecommerce.online_sales as t1 INNER JOIN  
ecommerce.customers as t2  
ON t1."CustomerID" = t2."CustomerID"  
WHERE "Location" ILIKE 'New%'  
ORDER BY t1."Transaction_Date" ASC;
```

LINK HASIL EXCEL:

<https://docs.google.com/spreadsheets/d/1JTc57jk8Qep0d1VTXNy8I-tbxwlsYcYWU/edit?usp=sharing&ouid=111092145908713030212&rtpof=true&sd=true>



The screenshot shows the Beekeeper Studio interface. The top bar displays several database connections: 'online\_s...', 'PRODUK UNIK', 'KATEGORI PROI', 'RATA-RATA GM', 'TENURE\_MONT', 'custom', and 'TANGGAL UNIK'. The main editor area contains the following SQL query:

```
1 SET search_path to ecommerce;  
2  
3 SELECT t1."Transaction_Date"  
4 FROM ecommerce.online_sales as t1 INNER JOIN ecommerce.customers as t2  
5 ON t1."CustomerID" = t2."CustomerID"  
6 WHERE "Location" ILIKE 'New%'  
7 ORDER BY t1."Transaction_Date" ASC;  
8  
9  
10  
11  
12  
13  
14 |  
15  
16  
17
```

Below the query editor, the results are displayed in a table with the column header 'Transaction\_Date'. The results show a list of dates: 2019-01-01, 2019-01-01, 2019-01-01, 2019-01-02, 2019-01-02, 2019-01-02, 2019-01-02, 2019-01-02, 2019-01-02, 2019-01-02, 2019-01-02. At the bottom, a status bar indicates 'Result 2: 15.7K rows', '15676 affected', and '0.416 s'. There are 'Save' and 'Run' buttons in the top right of the editor area, and a 'Download' button in the bottom right of the results area.

# TERIMA KASIH

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A solid orange horizontal bar at the bottom of the slide.