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Kompi 19

SQL Foundation

--ini case study

-- thelook\_ecommerce merupakan dataset public yang tersedia di Bigquery

-- terdiri dari tabel :

-- distribution\_centers

-- events

-- inventory\_items

-- order\_items

-- orders

-- products

-- users

-- pada assignment 1 ini saya akan menggali beberapa informasi

-- terkait pelanggan, pesanan, dan produk

-- total ada 15 informasi

--informasi 1

--mengetahui pelanggan (costumer) terbanyak bergenre apa

# ini syntax

SELECT gender,

COUNT (id) as Total\_Costumer

FROM bigquery-public-data.thelook\_ecommerce.users

GROUP BY gender

ORDER BY Total\_Costumer DESC

# ini insight

-- didapatkan informasi bahwa costumer terbanyak bergender laki-laki atau Male (50148)

	A	B
1	gender	Total_Costumer
2	M	50148
3	F	49852

--informasi 2

-- melihat 5 negara teratas dengan total pembelian (pesanan) terbesar

-- melakukan inner join pada tabel users dan orders

# ini syntax

```

SELECT T1.Country,
COUNT(T2.order_id) AS Jumlah_Pesanan
FROM bigquery-public-data.thelook_ecommerce.users T1 INNER JOIN
bigquery-public-data.thelook_ecommerce.orders T2
ON T1.id=T2.user_id
WHERE NOT T2.status = "Cancelled"
GROUP BY T1.country
ORDER BY Jumlah_Pesanan DESC
LIMIT 5
# ini insight
-- 5 negara dengan total pembelian terbanyak secara berurutan, yaitu
-- China, United States, Brasil, Soul Korea, dan France

```

	A	B
1	Country	Jumlah_Pesanan
2	China	35739
3	United States	24201
4	Brasil	15422
5	South Korea	5860
6	France	4889

```

--informasi 3
-- mengetahui pesanan (pembelian) terbanyak berdasarkan umur dan gender dari 3 negara tertinggi
-- yang pertama, China
# ini syntax
SELECT T1.age, T1.gender,
COUNT(T2.order_id) AS Jumlah_Pesanan
FROM bigquery-public-data.thelook_ecommerce.users T1 INNER JOIN
bigquery-public-data.thelook_ecommerce.orders T2
ON T1.id=T2.user_id
WHERE T1.country = "China" AND NOT T2.status = "Cancelled"
GROUP BY T1.age, T1.gender
ORDER BY Jumlah_Pesanan DESC
LIMIT 5
# ini insight

```

-- kita dapat lihat pesanan terbanyak di China pada usia 38 dan gender Female

	A	B	C
1	age	gender	Jumlah_Pesanan
2	38	F	357
3	67	F	351
4	47	M	348
5	23	F	347
6	64	F	342

--informasi 4

-- mengetahui pesanan (pembelian) terbanyak berdasarkan umur dan gender dari

-- negara United States

# ini syntax

```
SELECT T1.age, T1.gender,
COUNT(T2.order_id) AS Jumlah_Pesanan
FROM bigquery-public-data.thelook_ecommerce.users T1 INNER JOIN
bigquery-public-data.thelook_ecommerce.orders T2
ON T1.id=T2.user_id
WHERE T1.country = "United States" AND NOT T2.status = "Cancelled"
GROUP BY T1.age, T1.gender
ORDER BY Jumlah_Pesanan DESC
LIMIT 5
```

# ini insight

-- kita dapat lihat pesanan terbanyak di United States pada usia 41 dan gender Male

	A	B	C
1	age	gender	Jumlah_Pesanan
2	41	M	253
3	69	F	246
4	19	F	244
5	23	F	243
6	57	F	238

--informasi 5

-- mengetahui pesanan (pembelian) terbanyak berdasarkan umur dan gender dari

-- negara Brasil

# ini syntax

```
SELECT T1.age, T1.gender,
```

```

COUNT(T2.order_id) AS Jumlah_Pesanan
FROM bigquery-public-data.thelook_ecommerce.users T1 INNER JOIN
bigquery-public-data.thelook_ecommerce.orders T2
ON T1.id=T2.user_id
WHERE T1.country = "Brasil" AND NOT T2.status = "Cancelled"
GROUP BY T1.age, T1.gender
ORDER BY Jumlah_Pesanan DESC
LIMIT 5

```

# ini insight

-- kita dapat lihat pesanan terbanyak di Brasil pada usia 35 dan gender Female

	A	B	C
1	age	gender	Jumlah_Pesanan
2	35	F	178
3	24	M	171
4	56	M	168
5	18	M	164
6	47	F	161

--informasi 6

--melihat brand dari departement yang paling banyak dipesan di negara China

--berdasarkan hasil informasi 3

--melakukan dua kali inner join pada tabel order\_items dengan products

--dan tabel users dengan tabel order\_items

# ini syntax

```

SELECT p.department, p.brand,
COUNT (oi.id) AS Jumlah_pesanan_produk
FROM bigquery-public-data.thelook_ecommerce.products p
INNER JOIN bigquery-public-data.thelook_ecommerce.order_items oi ON p.id =
oi.product_id
INNER JOIN bigquery-public-data.thelook_ecommerce.users u ON u.id = oi.user_id
WHERE u.country = "China" AND u.gender = "F" AND u.age = 38 AND NOT oi.status =
"Cancelled"
GROUP BY p.department, p.brand
ORDER BY Jumlah_pesanan_produk DESC

```

# ini insight

--- informasi yang didapatkan

--- pesanan brand terbanyak di China pada usia 38 dan gender Female

--- pada tiga teratas ada Allegra K, Anne Klein, HUE

	A	B	C
1	department	brand	Jumlah_pesanan_pr
2	Women	Allegra K	28
3	Women	Anne Klein	8
4	Women	HUE	6
5	Women	Hanes	6

--informasi 7

--melihat brand dari departement yang paling banyak dipesan di negara United States

--berdasarkan hasil informasi 4

--melakukan dua kali inner join pada tabel order\_items dengan products

--dan tabel users dengan tabel order\_items

# ini syntax

```
SELECT p.department, p.brand,
COUNT (oi.id) AS Jumlah_pesanan_produk
FROM bigquery-public-data.thelook_ecommerce.products p
INNER JOIN bigquery-public-data.thelook_ecommerce.order_items oi ON p.id =
oi.product_id
INNER JOIN bigquery-public-data.thelook_ecommerce.users u ON u.id = oi.user_id
WHERE u.country = "United States" AND u.gender = "M" AND u.age = 41 AND NOT oi.status
= "Cancelled"
GROUP BY p.department, p.brand
ORDER BY Jumlah_pesanan_produk DESC
```

# ini insight

--- informasi yang didapatkan

--- pesanan brand terbanyak di United States pada usia 41 dan gender male

--- pada tiga teratas ada Calvin Klein, Quiksilver, dan Nautica

	A	B	C
1	department	brand	Jumlah_pesanan_pr
2	Men	Calvin Klein	12
3	Men	Quiksilver	12
4	Men	Nautica	8
5	Men	Columbia	8

--informasi 8

--melihat brand dari departement yang paling banyak dipesan di negara Brasil

```
--berdasarkan hasil informasi 5
--melakukan dua kali inner join pada tabel order_items dengan products
--dan tabel users dengan tabel order_items
SELECT p.department, p.brand,
COUNT (oi.id) AS Jumlah_pesanan_produk
FROM bigquery-public-data.thelook_ecommerce.products p
INNER JOIN bigquery-public-data.thelook_ecommerce.order_items oi ON p.id =
oi.product_id
INNER JOIN bigquery-public-data.thelook_ecommerce.users u ON u.id = oi.user_id
WHERE u.country = "Brasil" AND u.gender = "F" AND u.age = 35 AND NOT oi.status =
"Cancelled"
GROUP BY p.department, p.brand
ORDER BY Jumlah_pesanan_produk DESC
# ini insight
--- informasi yang didapatkan
--- pesanan brand terbanyak di Brasil pada usia 35 dan gender Female
--- pada tiga teratas ada Allegra K, Motherhood Maternity, Anne Klein
```

	A	B	C
1	department	brand	Jumlah_pesanan_pr
2	Women	Allegra K	12
3	Women	Motherhood Materni	5
4	Women	Anne Klein	4
5	Women	American Apparel	4

```
-- Informasi 9
-- mencari product yang paling banyak di cancell
-- berdasarkan category, brand, dan department dari tabel products
---dan berdasarkan usia, gender, dan country dari tabel users
# ini syntax
SELECT u.country, u.gender, p.category, p.department, p.brand,
COUNT(oi.id) AS Jumlah_Cancelled_Orders
FROM bigquery-public-data.thelook_ecommerce.products p
INNER JOIN bigquery-public-data.thelook_ecommerce.order_items oi ON p.id =
oi.product_id
INNER JOIN bigquery-public-data.thelook_ecommerce.users u ON u.id = oi.user_id
WHERE oi.status = "Cancelled"
```

```
GROUP BY u.country, u.gender, p.category, p.department, p.brand
```

```
ORDER BY Jumlah_Cancelled_Orders DESC
```

```
# ini insight
```

	A	B	C	D	E	F
1	country	gender	category	department	brand	Jumlah_Cancelled_Orders
2	China	F	Maternity	Women	Motherhood Maternity	45
3	China	F	Blazers & Jackets	Women	Allegra K	44
4	China	M	Outerwear & Coats	Men	Carhartt	43

```
--informasi 10
```

```
--mencari 3 product Men yang sales price-nya tertinggi
```

```
# ini syntax
```

```
SELECT p.name, p.category, p.brand, MAX(oi.sale_price) AS Harga_Tertinggi
```

```
FROM bigquery-public-data.thelook_ecommerce.products p
```

```
INNER JOIN bigquery-public-data.thelook_ecommerce.order_items oi ON p.id =  
oi.product_id
```

```
WHERE p.department = "Men"
```

```
GROUP BY p.name, p.category, p.brand
```

```
ORDER BY Harga_Tertinggi DESC
```

```
LIMIT 3
```

```
#ini insight
```

```
---informasi yang didapatkan product dengan sales price tertinggi
```

```
---dengan nama product:
```

```
---Alpha Industries Rip Stop Short/Shorts/Alpha Industries
```

```
---Darla/Outerwear & Coats/Alpha Industries
```

```
---Woolrich Arctic Parka DF/Outerwear & Coats/Woolrich
```

	A	B	C	D
1	name	category	brand	Harga_Tertinggi
2	Alpha Industries Rip	Shorts	Alpha Industries	999
3	Darla	Outerwear & Coats	Alpha Industries	999
4	Woolrich Arctic Parka	Outerwear & Coats	Woolrich	990

```
--informasi 11
```

```
-- mencari 3 product Women yang sales price-nya tertinggi
```

```
# ini syntax
```

```
SELECT p.name, p.category, p.brand, MAX(oi.sale_price) AS Harga_Tertinggi
```

```

FROM bigquery-public-data.thelook_ecommerce.products p
INNER JOIN bigquery-public-data.thelook_ecommerce.order_items oi ON p.id =
oi.product_id
WHERE p.department = "Women"
GROUP BY p.name, p.category, p.brand
ORDER BY Harga_Tertinggi DESC
LIMIT 3
#ini insight
---informasi yang didapatkan product dengan sales price tertinggi
---dengan nama product:
---ASCIS Cushion Low Socks (Pack of 3)/Active/ASICS
---The North Face Denali Down Womens Jacket 2013/Active/The North Face
---The North Face Denali Down Womens Jacket 2013/Outerwear & Coats/The North Face

```

	A	B	C	D
1	name	category	brand	Harga_Tertinggi
2	ASCIS Cushion Low	Active	ASICS	903
3	The North Face Den	Active	The North Face	903
4	The North Face Den	Outerwear & Coats	The North Face	903

```

--informasi 12
-- mencari 3 kategori product Women yang paling banyak dipesan
# ini syntax
SELECT p.category, p.brand, COUNT(oi.order_id) AS Jumlah_Orders
FROM bigquery-public-data.thelook_ecommerce.products p
INNER JOIN bigquery-public-data.thelook_ecommerce.order_items oi ON p.id =
oi.product_id
WHERE p.department = "Women" AND NOT oi.status = "Cancelled"
GROUP BY p.category, p.brand
ORDER BY Jumlah_Orders DESC
LIMIT 3
# ini insight
---informasi yang didapatkan kategori product dengan orders tertinggi
---dengan category/brand/Jumlah_Orders:
---Maternity/Motherhood Maternity/879
---Blazers & Jackets/Allegra K/729
---Dresses/Allegra K/637

```



	A	B	C
1	category	brand	Jumlah_Orders
2	Maternity	Motherhood Maternity	879
3	Blazers & Jackets	Allegra K	729
4	Dresses	Allegra K	637

--informasi 13

-- mencari 3 kategori product Men yang paling banyak dipesan

# ini syntax

```
SELECT p.category, p.brand, COUNT(oi.order_id) AS Jumlah_Orders
FROM bigquery-public-data.thelook_ecommerce.products p
INNER JOIN bigquery-public-data.thelook_ecommerce.order_items oi ON p.id =
oi.product_id
WHERE p.department = "Men" AND NOT oi.status = "Cancelled"
GROUP BY p.category, p.brand
ORDER BY Jumlah_Orders DESC
LIMIT 3
```

# ini insight

---informasi yang didapatkan kategori product dengan orders tertinggi

---dengan category/brand/Jumlah\_Orders:

---Jeans/Wrangler/654

---Swim/Quiksilver/582

---Underwear/Calvin Klein/556

	A	B	C
1	category	brand	Jumlah_Orders
2	Jeans	Wrangler	654
3	Swim	Quiksilver	582
4	Underwear	Calvin Klein	556

--informasi 14

-- mencari 5 product/brand Men yang paling banyak dipesan dari tahun 2019-2024

# ini syntax

```
SELECT u.gender, p.category, p.department, p.brand,
COUNT(oi.order_id) AS Jumlah_Pesanan
FROM bigquery-public-data.thelook_ecommerce.products p
INNER JOIN bigquery-public-data.thelook_ecommerce.order_items oi ON p.id =
oi.product_id
```

```

INNER JOIN bigquery-public-data.thelook_ecommerce.users u ON u.id = oi.user_id
WHERE
    p.department = "Men"
    AND NOT oi.status = "Cancelled"
    AND EXTRACT(YEAR FROM oi.created_at) BETWEEN 2019 AND 2024
GROUP BY u.gender, p.category, p.department, p.brand
ORDER BY Jumlah_Pesanan DESC
LIMIT 5
# ini insight
---informasi yang didapatkan kategori product dengan orders tertinggi pada tahun 2019
- 2024
---dengan category/brand/Jumlah_Orders:
---Jeans/Wrangler/654
---SWIM/Quicksilver/582
---Underwear/Calvin Klein/556
--- dst..

```

	A	B	C	D	E
1	gender	category	department	brand	Jumlah_Pesanan
2	M	Jeans	Men	Wrangler	654
3	M	Swim	Men	Quicksilver	582
4	M	Underwear	Men	Calvin Klein	556
5	M	Pants	Men	Dockers	530
6	M	Pants	Men	Allegra K	529

```

--informasi 15
-- mencari 5 product/brand Women yang paling banyak dipesan dari tahun 2019-2024
# ini syntax
SELECT u.gender, p.category, p.department, p.brand,
    COUNT(oi.order_id) AS Jumlah_Pesanan
FROM bigquery-public-data.thelook_ecommerce.products p
INNER JOIN bigquery-public-data.thelook_ecommerce.order_items oi ON p.id =
oi.product_id
INNER JOIN bigquery-public-data.thelook_ecommerce.users u ON u.id = oi.user_id
WHERE
    p.department = "Women"
    AND NOT oi.status = "Cancelled"

```

```

AND EXTRACT(YEAR FROM oi.created_at) BETWEEN 2019 AND 2024
GROUP BY u.gender, p.category, p.department, p.brand
ORDER BY Jumlah_Pesanan DESC
LIMIT 5
# ini insight
---informasi yang didapatkan kategori product dengan orders tertinggi pada tahun 2019
- 2024
---dengan category/brand/Jumlah_Orders:
---Maternity/Motherhood Maternity/879
---Blazers & Jackets/Allegra K/729
---Dresses/Allegra K/637
--- dst.

```

	A	B	C	D	E
1	gender	category	department	brand	Jumlah_Pesanan
2	F	Maternity	Women	Motherhood Maternity	879
3	F	Blazers & Jackets	Women	Allegra K	729
4	F	Dresses	Women	Allegra K	637
5	F	Jeans	Women	Levi's	565
6	F	Swim	Women	Speedo	545