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Kelompok: 10

Tugas Praktik Materi 18 & 19

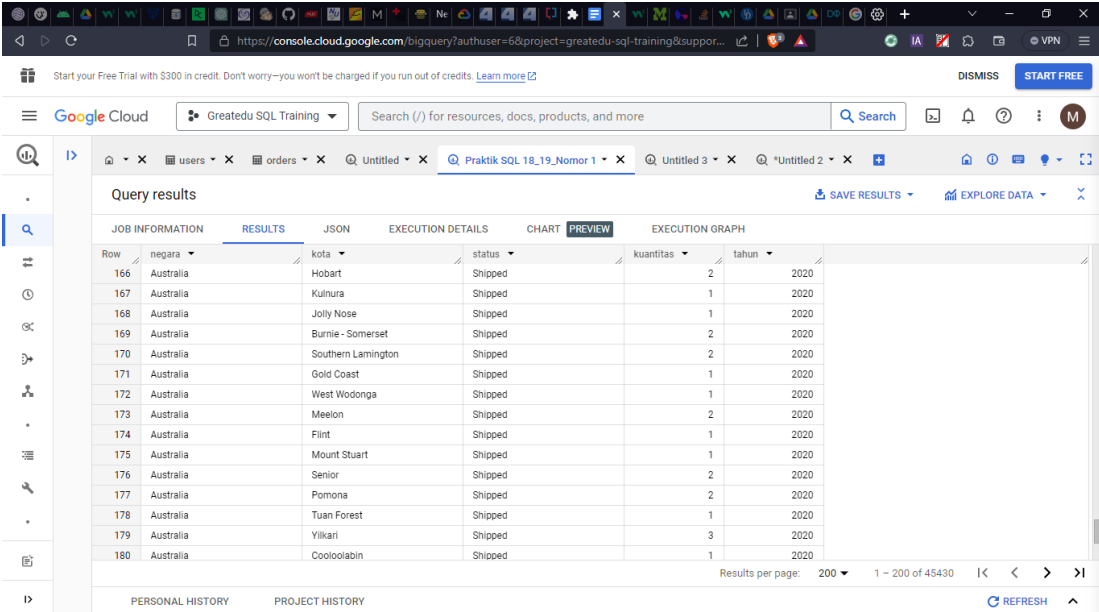
1. Untuk meningkatkan kecepatan pengiriman di setiap kota, tim data diminta untuk menampilkan data jumlah order berdasarkan status, kota dan negara yang dituju. Tampilkan data tersebut berdasarkan tahun order dibuat dan tambahkan detail jumlah item yang dibeli.

Instruksi: Gunakan table orders dan users untuk menyelesaikan kebutuhan tersebut!

a. Command:

```
select distinct country as negara, city as kota, status,
sum (num_of_item) as kuantitas,
extract(year FROM date(table_order.created_at)) as tahun
from    bigquery-public-data.thelook_ecommerce.orders as
table_order
join    bigquery-public-data.thelook_ecommerce.users as
table_user on table_order.user_id=id
group by negara, kota, status, tahun
order by negara, tahun, status
```

b. Screenshot Output:



Row	negara	kota	status	kuantitas	tahun
166	Australia	Hobart	Shipped	2	2020
167	Australia	Kulnura	Shipped	1	2020
168	Australia	Jolly Nose	Shipped	1	2020
169	Australia	Burnie - Somerset	Shipped	2	2020
170	Australia	Southern Lamington	Shipped	2	2020
171	Australia	Gold Coast	Shipped	1	2020
172	Australia	West Wodonga	Shipped	1	2020
173	Australia	Meelon	Shipped	2	2020
174	Australia	Flint	Shipped	1	2020
175	Australia	Mount Stuart	Shipped	1	2020
176	Australia	Senior	Shipped	2	2020
177	Australia	Pomona	Shipped	2	2020
178	Australia	Tuan Forest	Shipped	1	2020
179	Australia	Yilkari	Shipped	3	2020
180	Australia	Cooloolabin	Shipped	1	2020

2. Untuk kebutuhan program membership, tim data diminta untuk mengeluarkan 20 user dengan total pengeluaran terbesar di tahun 2022 (Dengan ketentuan: order tersebut harus sudah selesai, dan terkirim sebelum Juni 2023).

Instruksi: Gunakan table orders dan users untuk menyelesaikan kebutuhan tersebut serta tampilkan rincian Nama Depan, Nama Belakang, Email, dan Asal Kota/Negara, dan total order!

a. Command:

```
select
```

```

concat(first_name, ' ', last_name) as nama_lengkap,
email, city as kota, country as negara,
sum(table_item.sale_price) as total_pengeluaran,
--tabel--
from bigquery-public-data.thelook_ecommerce.orders
as table_order
join bigquery-public-data.thelook_ecommerce.users
as table_user
ON table_order.user_id=table_user.id
join bigquery-public-data.thelook_ecommerce.order_items
as table_item
ON table_order.order_id=table_item.order_id
--ketentuan--
Where table_item.status = 'Complete'
and date(table_item.created_at) < '2023-06-01'
group by nama_lengkap, email, kota, negara
order by total_pengeluaran desc
LIMIT 20

```

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```

select
concat(first_name, ' ', last_name) as nama_lengkap,
email, city as kota, country as negara,
sum(table_item.sale_price) as total_pengeluaran,
--tabel--
from bigquery-public-data.thelook_ecommerce.orders
as table_order
join bigquery-public-data.thelook_ecommerce.users
as table_user
ON table_order.user_id=table_user.id
join bigquery-public-data.thelook_ecommerce.order_items
as table_item
ON table_order.order_id=table_item.order_id
--ketentuan--
Where table_item.status = 'Complete'

```

```

and date(table_item.created_at) < '2023-06-01'
group by nama_lengkap, email, kota, negara,
table_item.created_at
order by table_item.created_at, total_pengeluaran desc
LIMIT 20

```

b. Screenshot Output:

The screenshot shows the Google Cloud BigQuery console interface. The left sidebar displays the Explorer with the project 'greatedu-sql-training' and the query 'Praktik SQL 18_19 Nomor 2' selected. The main panel shows the 'Query results' tab with a table of 16 rows. The table columns are: Row, nama_lengkap, email, kota, negara, and total_pengeluaran. The data is sorted by total_pengeluaran in descending order.

Row	nama_lengkap	email	kota	negara	total_pengeluaran
1	Stephanie Johnson	stephaniejohnson@example.com	Gainesville	United States	1304.509956414...
2	Matthew Jones	matthewjones@example.net	Hangzhou	China	1247.5
3	Jason Phillips	jasonphillips@example.net	Wisconsin Rapids	United States	1216.990005493...
4	Raymond Cummings	raymondscummings@example...	Serra	Brasil	1145.410003662...
5	Gabriela Adams	gabrieladams@example.net	Quzhou	China	1128.0
6	Joseph Tucker	josephjtucker@example.net	Xian	China	1116.540000915...
7	Michael Ortiz	michaelortiz@example.org	Shanghai	China	1091.989997863...
8	Jason Ramirez	jasonramirez@example.org	Suzhou	China	1072.0
9	Gregory Baker	gregorybaker@example.com	Ipirá	Brasil	1060.940006256...
10	John Knight	johnknight@example.com	La Verne	United States	1043.889999389...
11	Andrew Williams	andrewwilliams@example.net	Macapá	Brasil	1041.979999542...
12	Thomas Bryant	thomasbryants@example.org	Statesville	United States	1031.0
13	Martin Schroeder	martinschroeder@example.net	Brasília	Brasil	1007.989997863...
14	Timothy Cook	timothycook@example.com	Kiel	Germany	1007.0
15	John Spencer	johnspencer@example.org	Zhangjiakou	China	1003.209999084...
16	Michael Buchanan	michaelbuchanan@example.c...	Sydney	Australia	1001.0

The screenshot shows the Google Cloud BigQuery console interface. The left sidebar displays the Explorer with the project 'greatedu-sql-training' and the query 'Praktik SQL 18_19 Nomor 2' selected. The main panel shows the 'Query results' tab with a table of 20 rows. The table columns are: Row, nama_lengkap, email, kota, negara, and total_pengeluaran. The data is sorted by total_pengeluaran in descending order.

Row	nama_lengkap	email	kota	negara	total_pengeluaran
5	Gabriela Adams	gabrieladams@example.net	Quzhou	China	1128.0
6	Joseph Tucker	josephjtucker@example.net	Xian	China	1116.540000915...
7	Michael Ortiz	michaelortiz@example.org	Shanghai	China	1091.989997863...
8	Jason Ramirez	jasonramirez@example.org	Suzhou	China	1072.0
9	Gregory Baker	gregorybaker@example.com	Ipirá	Brasil	1060.940006256...
10	John Knight	johnknight@example.com	La Verne	United States	1043.889999389...
11	Andrew Williams	andrewwilliams@example.net	Macapá	Brasil	1041.979999542...
12	Thomas Bryant	thomasbryants@example.org	Statesville	United States	1031.0
13	Martin Schroeder	martinschroeder@example.net	Brasília	Brasil	1007.989997863...
14	Timothy Cook	timothycook@example.com	Kiel	Germany	1007.0
15	John Spencer	johnspencer@example.org	Zhangjiakou	China	1003.209999084...
16	Michael Buchanan	michaelbuchanan@example.c...	Sydney	Australia	1001.0
17	Zachary Johnson	zacharyjohnson@example.org	Peaugres	France	999.0
18	Gregory Weaver	gregoryweaver@example.net	Mudanjiang	China	999.0
19	Stephen Wells	stephenwells@example.com	Águas Lindas de Goiás	Brasil	992.9499969482...
20	Luke Wilson	lukewilson@example.com	Long Beach	United States	971.0499992370...

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Row	nama_lengkap	email	kota	negara	total_pengeluaran
1	Megan Adams	meganadams@example.net	Noroy-le-Bourg	France	22.0
2	Anthony Henderson	anthonyhenderson@example.n...	Reinbek	Germany	38.0
3	John Harris	johnharris@example.com	Pará de Minas	Brasil	36.0
4	Jenny Carpenter	jennycarpenter@example.org	Shijiazhuang	China	4.949999809265...
5	Alexandria Cunningham	alexandriacunningham@exam...	Adra	Spain	10.0
6	Sheri Thomas	sherithomas@example.net	Shenzhen	China	35.0
7	Alexis Owen	alexisowen@example.org	Egg Harbor Township	United States	45.0
8	Alexis Owen	alexisowen@example.org	Egg Harbor Township	United States	18.98999977111...
9	John Hardy	johnhardy@example.com	Busan	South Korea	242.2899932861...
10	David Kim	davidkim@example.org	Greeneville	United States	89.98999786376...
11	John Hardy	johnhardy@example.com	Busan	South Korea	13.98999977111...
12	Linda Stanley	lindastanley@example.net	Rockwall	United States	41.99000167846...
13	Tammy Manning	tammymanning@example.com	Bremen	Germany	44.99000167846...
14	Vanessa Francis	vanessafrancis@example.com	Yichun	China	79.94999694824...
15	John Hardy	johnhardy@example.com	Busan	South Korea	50.0
16	Linda Stanley	lindastanley@example.net	Rockwall	United States	79.0

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PERSONAL HISTORY	PROJECT HISTORY
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16	Linda Stanley	lindastanley@example.net	Rockwall	United States	79.0
17	Tammy Manning	tammymanning@example.com	Bremen	Germany	38.97000122070...
18	Vanessa Francis	vanessafrancis@example.com	Yichun	China	4.150000095367...
19	Amy McCarthy	amymccarthy@example.org	Suihua	China	64.94999694824...
20	Michele Ramsey	micheleramsey@example.net	Wenshan Zhuang Miao Autono...	China	32.97999954223...

- Pada sebuah e-commerce, ada brand yang melakukan kerjasama khusus yaitu Allegra K dan Calvin Klein. Dua brand ini ingin mengetahui performa mereka dalam setiap bulan selama tahun 2022. Tim data diminta untuk mengeluarkan data total order dan total harga/pendapatan dari 2 brand tersebut dan dilihat distribusi per kota dan negaranya.

Instruksi: Gunakan table orders, users, order_items, products, untuk menyelesaikan kebutuhan tersebut!

a. Command

```
WITH OrderDetails AS (
SELECT
table_order.order_id,
table_order.user_id,
table_order.created_at as order_date,
city,
country,
table_produk.brand,
table_order.num_of_item,
table_item.sale_price
FROM    bigquery-public-data.thelook_ecommerce.orders as
table_order
JOIN    bigquery-public-data.thelook_ecommerce.users as
table_user on table_order.user_id=id
JOIN    bigquery-public-data.thelook_ecommerce.order_items
as table_item on table_order.user_id=table_order.order_id
```

```

JOIN bigquery-public-data.thelook_ecommerce.products as
table_produk on table_item.product_id=table_produk.id
WHERE
table_produk.brand IN ('Allegra K', 'Calvin Klein')
AND EXTRACT(YEAR FROM table_order.created_at) = 2022
)
SELECT
brand,
EXTRACT(YEAR FROM order_date) AS year,
EXTRACT(MONTH FROM order_date) AS month,
city,
country,
SUM(num_of_item) AS total_order,
SUM(sale_price) AS total_price
FROM
OrderDetails
GROUP BY
brand,
year,
month,
city,
country
ORDER BY
brand,
year,
month,
country,
city;

```

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```

WITH OrderDetails AS (
SELECT
table_order.order_id,
table_order.user_id,
table_order.created_at as order_date,
city,

```

```

country,
table_produk.brand,
table_order.num_of_item,
table_item.sale_price
FROM    bigquery-public-data.thelook_ecommerce.orders    as
table_order
JOIN    bigquery-public-data.thelook_ecommerce.users    as
table_user on table_order.user_id=id
JOIN    bigquery-public-data.thelook_ecommerce.order_items
as table_item on table_user.id=table_order.user_id
JOIN    bigquery-public-data.thelook_ecommerce.products    as
table_produk on table_item.product_id=table_produk.id
WHERE
table_produk.brand IN ('Allegra K', 'Calvin Klein')
AND EXTRACT(YEAR FROM table_order.created_at) = 2022
)
SELECT
brand,
city,
country,
SUM(num_of_item) AS total_order,
SUM(sale_price) AS total_price
FROM
OrderDetails
GROUP BY
brand,
city,
country
ORDER BY
brand,
country,
city;

```

b. Screenshot Output

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS		CHART	PREVIEW	EXECUTION GRAPH	
Row	brand	year	month	city	country	total_order	total_price		
1	Allegra K	2022	7	Oakley	United States	24840	88278.30002260...		
2	Calvin Klein	2022	7	Oakley	United States	12732	202574.8104743...		

REVISI:

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS		CHART	PREVIEW	EXECUTION GRAPH	
Row	brand	city	country	total_order	total_price				
1	Allegra K	Adelaide	Australia	319005	3115319.199286...				
2	Allegra K	Allgomera	Australia	6255	89009.11997961...				
3	Allegra K	Baerami Creek	Australia	12510	178018.2399592...				
4	Allegra K	Baldivis	Australia	6255	89009.11997961...				
5	Allegra K	Ballarat	Australia	18765	267027.3599388...				
6	Allegra K	Balliang	Australia	12510	178018.2399592...				
7	Allegra K	Basalt	Australia	43785	356036.4799184...				
8	Allegra K	Bellbrae	Australia	6255	89009.11997961...				
9	Allegra K	Belli Park	Australia	12510	178018.2399592...				
10	Allegra K	Bendigo	Australia	18765	178018.2399592...				
11	Allegra K	Benjinup	Australia	12510	89009.11997961...				
12	Allegra K	Birkdale	Australia	12510	89009.11997961...				
13	Allegra K	Black Creek	Australia	18765	178018.2399592...				
14	Allegra K	Blackmans Bay	Australia	6255	89009.11997961...				
15	Allegra K	Blue Mountains	Australia	12510	178018.2399592...				
16	Allegra K	Boojie	Australia	6255	89009.11997961...				

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Query results

SAVE RESULTS EXPLORE DATA

JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS		CHART	PREVIEW	EXECUTION GRAPH	
Row	brand	city	country	total_order	total_price				
1	Calvin Klein	Adelaide	Australia	164526	7236782.714796...				
2	Calvin Klein	Allgomera	Australia	3226	206765.2204227...				
3	Calvin Klein	Baerami Creek	Australia	6452	413530.4408454...				
4	Calvin Klein	Baldivis	Australia	3226	206765.2204227...				
5	Calvin Klein	Ballarat	Australia	9678	620295.6612682...				
6	Calvin Klein	Balliang	Australia	6452	413530.4408454...				
7	Calvin Klein	Basalt	Australia	22582	827060.8816909...				
8	Calvin Klein	Bellbrae	Australia	3226	206765.2204227...				
9	Calvin Klein	Belli Park	Australia	6452	413530.4408454...				
10	Calvin Klein	Bendigo	Australia	9678	413530.4408454...				
11	Calvin Klein	Benjinup	Australia	6452	206765.2204227...				
12	Calvin Klein	Birkdale	Australia	6452	206765.2204227...				
13	Calvin Klein	Black Creek	Australia	9678	413530.4408454...				
14	Calvin Klein	Blackmans Bay	Australia	3226	206765.2204227...				
15	Calvin Klein	Blue Mountains	Australia	6452	413530.4408454...				
16	Calvin Klein	Boojie	Australia	3226	206765.2204227...				

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PERSONAL HISTORY PROJECT HISTORY REFRESH