Mini Individual Assignment SQL

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Question 1: Total transaction for each payment in 2021

Query:

```sql
-- Total transaction for each payment in 2021, sort from highest

SELECT
    payment_method_id as Payment_MeThod,
    COUNT(DISTINCT transaction_id) as total_transaksi

FROM `revoufsda-ecommerceu.EcommerceU_B3.transaction_items`
WHERE event_name = 'complete'
    and FORMAT_DATE('%Y', timestamp_event) = '2021'
GROUP BY 1
ORDER BY 2 DESC
```

Result:

Row	Payment_MeThod	total_transaksi
1	2	1848
2	1	1442
3	3	1017
4	4	835
5	5	88

Question 2:
Total transaction that use direct discount voucher type in Q1 2021 (breakdown by product category, sort from the highest)

Query:

```sql
WITH tabel1 as
(
  SELECT
    t1.event_id,
    t1.voucher_id,
    t1.timestamp_event,
    t1.transaction_id,
    t1.user_id,
    t2.product_id

  FROM `revoufsda-ecommerceu.EcommerceU_B3.transaction`
as t1
  LEFT JOIN
`revoufsda-ecommerceu.EcommerceU_B3.transaction_items` as
t2
  ON t1.event_id = t2.event_id
  WHERE  t1.voucher=true and t1.voucher_id = 2 and
t1.event_name = 'complete'
)
```

```sql
SELECT
    t2.product_category as Product_Category,
    COUNT(DISTINCT t1.transaction_id) as Total_Transaction
FROM tabel1 as t1
LEFT JOIN `revoufsda-ecommerceu.EcommerceU_B3.product`
as t2
ON t1.product_id = t2.product_id
WHERE DATE(t1.timestamp_event) BETWEEN '2021-01-01' and
'2021-03-30'
GROUP BY 1
ORDER BY 2 DESC
```

Question 2:

Result:

Row	Product_Category	Total_Transaction
1	5	54
2	1	54
3	2	53
4	7	47
5	8	42
6	6	40
7	3	33
8	4	19
9	9	11
10	10	4

Question 3: Monthly top 3 user based on total GMV (show: date, name, GMV)

Query:

```
WITH tabel1 as
(
  SELECT
    t1.event_id,
    DATE_TRUNC(date(t1.timestamp_event), MONTH) as Month,
    t1.transaction_id,
    t1.user_id,
    t2.name,
    sum(t1.original_amount) as GMV
  FROM `revoufsda-ecommerceu.EcommerceU_B3.transaction`
as t1
  LEFT JOIN `revoufsda-ecommerceu.EcommerceU_B3.user` as
t2
  ON t1.user_id = t2.user_id
  WHERE t1.event_name = 'complete'
  GROUP BY 1,2,3,4,5
),
```

```
Rangking as
(
  SELECT
    Month,
    name as Name,
    GMV,
    RANK() OVER(PARTITION BY Month ORDER BY GMV DESC) as Rank
FROM tabel1
)

SELECT
  Month,
  Name,
  GMV
FROM Rangking
WHERE rank <=3
ORDER BY 1 ASC, Rank ASC
ORDER BY 2 DESC
```

Question 3: Monthly top 3 user based on total GMV (show: date, name, GMV)

Result:

Row	Month	Name	GMV
1	2019-01-01	Novi Haryanti	3486000
2	2019-01-01	Hartaka Uwais	3345000
3	2019-01-01	Lili Maria Zulaika	3000000
4	2019-02-01	Asmadi Ardianto	3300000
5	2019-02-01	Ivan Cecep Marpaung M.Kom.	3120000
6	2019-02-01	Lidya Septi Rahimah	3000000
7	2019-02-01	Puti Rahmawati	3000000

THANKS