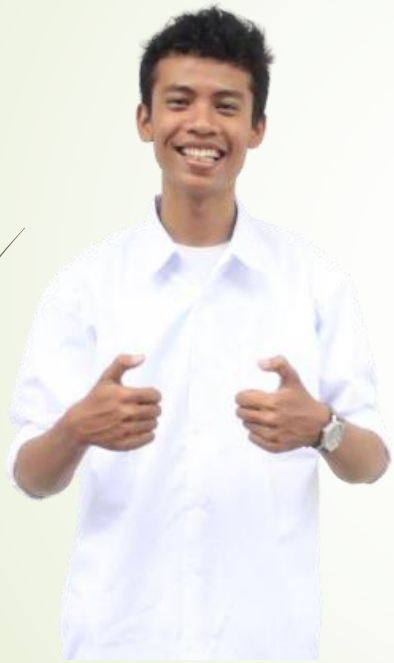
FINACCEL TASK

MYSQL SYNTAX

FOR TECHNICAL PRODUCT MANAGER PURPOSES

PROFILE



FURY OKTRIA PUTRA
WITH AN EXTENSIVE EXPERIENCE
TO SERVE PRODUCT
IN B2B AND B2C PLATFORM

https://www.linkedin.com/in/furyoktria/

PART ONE

transactions

Id	*customer_id*	*order_id*	*transaction_date*	*status*	*vendor*
1	422818	TEST000001	2018-01-01 00:00:10	SHIPPED	Vendor A
2	181820	TEST000002	2018-01-01 00:10:10	SHIPPED	Vendor A
3	999019	TEST000003	2018-01-02 03:18:01	CANCELLED	Vendor A
4	1923192	TEST000004	2018-02-04 05:00:00	CANCELLED	Vendor C
5	645532	TEST000005	2018-02-10 16:00:10	SHIPPED	Vendor C
6	1101011	TEST000006	2018-02-11 11:00:11	SHIPPED	Vendor C
7	1020000	TEST000007	2018-02-10 00:00:00	SHIPPED	Vendor D
8	40111234	TEST000008	2018-03-11 06:30:11	SHIPPED	Vendor D
9	1923192	TEST000009	2018-03-12 10:00:11	CANCELLED	Vendor B
10	1101011	TEST000010	2018-03-12 15:30:12	SHIPPED	Vendor B
11	999019	TEST000011	2018-03-15 12:30:45	CANCELLED	Vendor A
12	645532	TEST000012	2018-04-01 09:30:22	SHIPPED	Vendor A
13	650013	TEST000013	2018-04-01 10:50:37	SHIPPED	Vendor C
14	777734	TEST000014	2018-04-02 13:45:19	SHIPPED	Vendor D

1. Show list of transactions occurring in February 2018 with SHIPPED status.

```
SELECT *
FROM transactions
WHERE transaction_date
BETWEEN ‘2018-01-02 03:18:11 ’
AND ’03-11 03 06:30:11’
AND Status = ‘SHIPPED’
;
```

2. Show list of transactions occurring from midnight to 9 AM

```
SELECT *
FROM transactions
WHERE transaction_date
<= DATE_FORMAT( '09:00:00')
;
```

3. Show a list of only the last transactions from each vendor

```
SELECT Id, customer_id, order_id, MAX(transaction_date)
AS 'transaction_date', status , vendor
FROM `transactions`
GROUP BY vendor
;
```

4. Show a list of only the second last transactions from each vendor

```
SELECT *
FROM transactions AS T
WHERE transaction_date =
(SELECT MAX(transaction_date)
FROM transactions
WHERE vendor = T.vendor
AND transaction_date <
(SELECT MAX(transaction_date)
FROM transactions
WHERE vendor = T.vendor ) )
;
```

5. Count the transactions from each vendor with the status CANCELLED per day

```
SELECT transaction_date, vendor, count(distinct order_id)
AS order_id FROM
(SELECT *, DATE_FORMAT (transaction_date) as date_1
from transactions WHERE Status = 'CANCELLED') AS
table_1
GROUP BY transaction_date, vendor
;
```

6. Show a list of customers who made more than 1 SHIPPED purchases

```
SELECT customer_id, customer_list from
(SELECT customer_id, Count(distinct Id) as customer_list
FROM transactions WHERE Status = 'shipped' group by
customer_id) as table_1
Where customer_list > 1
;
```

7. Show the total transactions (volume) and category of each vendors by following criteria

```
SELECT vendor, SUM(Status='SHIPPED') AS 'Total
Transaction',
CASE WHEN SUM(Status='SHIPPED')  > 2 AND
SUM(status='CANCELLED') = 0 THEN 'Superb'
WHEN SUM(status='SHIPPED') > 2 and
SUM(status='CANCELLED')  = 1 THEN 'Good'
ELSE 'Normal‘
END AS Category from transcation
GROUP BY vendor
ORDER BY Category desc
;
```

8. Group the transactions by hour of *transaction_date*

```
SELECT hour(transaction_date) AS hour_of_the_day,
COUNT(*) AS total_transaction
FROM transactions
GROUP by hour_of_the_day
;
```

9. Group the transactions by day and statuses

```
SELECT CAST(transaction_date AS DATE), COUNT(status)
FROM transactions
GROUP BY transaction_date, status
;
```

10. Calculate the average, minimum and maximum of days interval of each transaction (how many days from one transaction to the next)

```
WITH Average_Interval AS (
SELECT Interval(transaction_date), FROM transactions
),

Minimum_Interval AS (
Select Min
(Select Interval(transaction_date), from transactions)) from
transaction
,
Maximum_Interval AS (
Select Max(Select Interval(transaction_date), from
transaction)from transaction
))
;
```

PART 2

transaction_details				
Id	*trx_id*	*product_name*	*quantity*	*price*
1	1	Beng beng	100	6000
2	1	Taro	80	5500
3	2	Beng Beng	70	6000
4	2	Taro	41	5500
5	2	Indomie Kari Ayam	12	3000
6	2	Indomie Ayam Bawang	20	3100
7	3	Indomie Ayam Bawang	30	3200
8	3	Indomie Kari Ayam	90	3300
9	3	Taro	100	5500
10	4	Beng Beng	40	6000
11	5	Teh Sariwangi Murni	50	8000
12	6	Indomie Kari Ayam	10	3000
13	6	Indomie Ayam Bawang	8	3100
14	6	Teh Sariwangi Murni	80	8000
15	6	Teh Hijau Cap Kepala Djenggot	15	9500
16	7	Coki-coki	70	1000
17	8	Bakmi Mewah	1500	13000

1. Show the sum of the total value of the products shipped along with the Distributor Commissions (2% of the total product value if total quantity is 100 or less, 4% of the total product value if total quantity sold is more than 100)

```
SELECT product_name, (quantity*price) as Total,
IF(quantity>100, 0.04*quantity* price, 0.04*quantity* price)
AS commissions
FROM transaction_details
GROUP BY product_name
;
```

2. Show total quantity of “Indomie (all variant)” shipped within February 2018

```
SELECT SUM(quantity* price) AS total_quantity
FROM transaction_details
INNER JOIN transaction ON
transaction_details.trx_id=transaction.id
WHERE (product_name REGEXP '^Indomie') AND
LEFT(transaction_date, 7) = '2018-02‘
;
```

3. For each product, show the ID of the last transaction which contained that particular product

```
SELECT product_name, trx_id as
'Last Transaction ID', MAX(transaction_date) AS
'transaction_date‘
FROM `transaction_details`
INNER JOIN transactions ON
transaction_details.trx_id=transaction.id
GROUP BY product_name
;
```

THANK YOU