

Nama: Taufiqurrahman

No: 14

ASSIGNMENT 2 (SESI 7)

Nomor 1

Assignment 02

Kita akan menggunakan database ecommerce_DB.

1. Tampilkanlah data average total payment yang dikelompokkan berdasarkan kuartal dan tahun

average_total_payment	quarter	transaction_year
190400	Q1	2022
836333,3333333334	Q2	2022
1381066,6666666667	Q3	2022
262830	Q4	2022
1212066,6666666667	Q1	2023
1406873,3333333333	Q2	2023
3822833,3333333335	Q3	2023
990166,6666666666	Q4	2023

```
/*No 1*/ /*Table payment*/
DROP TABLE IF EXISTS payments
-- Membuat tabel payments
CREATE TABLE payments (
  id INT PRIMARY KEY IDENTITY(1, 1),
  buy_price INT,
  quantity INT,
  total_payment INT,
  transaction_date DATE,
  payment_name VARCHAR(50),
  user_id INT NOT NULL,
  product_id INT NOT NULL,
);

insert into payments(buy_price, quantity, total_payment, transaction_date, payment_name, user_id, product_id)
values
(85600, 2, 171200, '2023-01-15', 'VA Mandiri', 1, 1),
(275000, 9, 2475000, '2023-02-19', 'Gopay', 2, 2),
(99000, 10, 990000, '2023-03-10', 'OVO', 3, 3),
(980000, 4, 3920000, '2023-04-11', 'COD', 4, 4),
(74900, 1, 74900, '2023-05-12', 'VA Mandiri', 5, 5),
(75240, 3, 225720, '2023-06-13', 'Gopay', 6, 6),
(224000, 5, 1120000, '2023-07-14', 'OVO', 7, 7),
(68500, 3, 205500, '2023-08-15', 'COD', 1, 8),
(1449000, 7, 10143000, '2023-09-16', 'VA Mandiri', 2, 9),
(360000, 8, 2880000, '2023-10-17', 'Gopay', 3, 10),
```

```

SELECT AVG(total_payment) as average_total_payment, CONCAT('Q', DATEPART(quarter, transaction_date)) AS Quarter_From_Date, DATEPART(year, transaction_date) AS Year_From_Date
FROM payments
GROUP BY DATEPART(quarter, transaction_date), DATEPART(year, transaction_date);

```

	average_total_payment	Quarter_From_Date	transaction_year
1	190400	Q1	2022
2	836333	Q2	2022
3	1381066	Q3	2022
4	262830	Q4	2022
5	1212066	Q1	2023
6	1406873	Q2	2023
7	3822833	Q3	2023
8	990166	Q4	2023

Nomor 2

Assignment 02

Assignment 02

2. Buatlah query untuk menampilkan data user paling tua.

id	first_name	last_name	phone_number	email	city_id	address	birth_date
1	Bezalel	Simmel	081390789645	bezaelsimmel@gmail.com	1	Komplek Melati Mas	1985-11-21

```

use ecommerce_DB

/*No 2*/

/*SUBQUERY*/
SELECT birth_date FROM Users
ORDER BY birth_date
OFFSET 0 ROWS
FETCH NEXT 1 ROWS ONLY;

/*MAIN QUERY*/
SELECT id, first_name, last_name, phone_number, email, city_id, address, birth_date
FROM Users
WHERE birth_date IN
(SELECT birth_date FROM Users
ORDER BY birth_date
OFFSET 0 ROWS

```

	id	first_name	last_name	phone_number	email	city_id	address	birth_date
1	1	Bezalel	Simmel	081390789645	bezaelsimmel@gmail.com	1	Komplek Melati Mas	1985-11-21

Nomor 3

3. Buatlah query untuk mengambil produk dengan harga termurah

id	name	price	stocks
15	Kusuka Keripik Singkong Ayam Lada Hitam 180 gram	16900	100

/*No 3*/

/*SUBQUERY*/

SELECT MIN(price) FROM products

/*MAIN QUERY*/

SELECT id, name, price, stocks

FROM products

WHERE price = ALL (SELECT MIN(price) FROM products);

100 %

Results Messages

	id	name	price	stocks
1	15	Kusuka Keripik Singkong Ayam Lada Hitam 180 gram	16900	100

Nomor 4

Assignment 02

4. Buatlah query untuk membuat temporary table untuk menampung data transaction yang di-join dengan tabel users, products, dan payments

user_id	first_name	last_name	product_id	product_name	buy_price	quantity	total_payment	transaction_date	payment_name
1	Bezael	Simmel	1	Heavy Duty Automotive Gear Oil - Mobilube HD 80W-90 -	85600	2	171200	2023-01-15	VA Mandiri
2	Parto	Banford	2	Oil Mesin - Mobil 1 8W-30 (1 liter)	275000	9	2475000	2023-03-19	Gopay
3	Christian	Koblick	3	Milk Frother Elektrik Pembuih Susu Baterai Hand Mixe...	99000	10	990000	2023-03-18	DVO
4	Kyoichi	Maliniak	4	Philips LOW WATT Air Fryer HD9200/91 - 800 Watt - Re...	980000	4	3920000	2023-04-11	CCO
5	Anneke	Preusig	5	COOGER Spin Mop Blue 360 derajat - Alat Pel Lantai S...	74900	1	74900	2023-05-12	VA Mandiri
6	Tzvetan	Zielinski	6	Wardah Body Care Olive Series - Natural Halal Melemb...	75240	3	225720	2023-06-13	Gopay
7	Atelier	NULL	7	Serum Avoskin Miraculous Refining 30ml-ANA BHA-MoKtu...	224000	5	1120000	2023-07-14	DVO
1	Bezael	Simmel	8	Cetaphil Baby Daily Lotion with Organic Calendula 40...	68500	3	205500	2023-08-15	CCO
2	Parto	Banford	9	Cocolatte Stroller Bayi CL 909 Spin Reversible - Ora...	1440000	7	10143000	2023-09-16	VA Mandiri
3	Christian	Koblick	10	Minimal Aires Shirt Green - GREEN, S	360000	8	2880000	2023-10-17	Gopay
4	Kyoichi	Maliniak	11	Dress Anak Bayi Perempuan Cewek Putih Kelinci Katun ...	69500	1	69500	2023-11-18	DVO
5	Anneke	Preusig	12	Kemeja Lengan Panjang Pria Cottonology Hella Hitam ~...	10500	2	21000	2023-12-19	CCO
6	Tzvetan	Zielinski	13	Milna Biskuit Bayi Jeruk 130gr	17000	4	68000	2022-01-20	VA Mandiri
7	Atelier	NULL	14	Coca Cola Japanese Design LIMITED EDITION JAPAN	48400	9	435600	2022-02-21	Gopay
1	Bezael	Simmel	15	Kusuka Keripik Singkong Ayam Lada Hitam 180 gram	16900	4	67600	2023-03-22	DVO
2	Parto	Banford	16	Vitamin C	80000	5	400000	2022-04-23	CCO
1	Bezael	Simmel	4	Philips LOW WATT Air Fryer HD9200/91 - 800 Watt - Re...	980000	2	1960000	2022-05-24	VA Mandiri
3	Christian	Koblick	3	Milk Frother Elektrik Pembuih Susu Baterai Hand Mixe...	99000	1	99000	2022-06-25	Gopay
5	Anneke	Preusig	2	Oil Mesin - Mobil 1 8W-30 (1 liter)	275000	8	2200000	2022-07-26	DVO
7	Atelier	NULL	1	Heavy Duty Automotive Gear Oil - Mobilube HD 80W-90 -	85600	7	599200	2022-08-27	CCO
2	Parto	Banford	7	Serum Avoskin Miraculous Refining 30ml-ANA BHA-MoKtu...	224000	6	1344000	2022-09-28	VA Mandiri
4	Kyoichi	Maliniak	6	Wardah Body Care Olive Series - Natural Halal Melemb...	75240	4	300960	2022-10-29	Gopay
6	Tzvetan	Zielinski	5	COOGER Spin Mop Blue 360 derajat - Alat Pel Lantai S...	74900	3	224700	2022-11-30	DVO

```
/*No 4*/
SELECT Users.id as user_id, Users.first_name, Users.last_name, payments.product_id, products.name, payments.buy_price, pay
FROM Users LEFT JOIN payments
ON Users.id = payments.user_id
LEFT JOIN products
ON payments.product_id = products.id
ORDER BY payments.id
```

100 %

Results Messages

	user_id	first_name	last_name	product_id	name	buy_price	quantity	total_payment	transaction_date	payment_name
1	1	Bezalel	Simmel	1	Heavy Duty Automotive Gear Oil - Mobilube HD 80W-9...	85600	2	171200	2023-01-15	VA Mandiri
2	2	Parto	Bamford	2	Oil Mesin - Mobil 1 0W-20 (1 liter)	275000	9	2475000	2023-02-19	Gopay
3	3	Chirstian	Koblick	3	Milk Frother Elektrik Pembuih Susu Baterai Hand Mixer ...	99000	10	990000	2023-03-10	OVO
4	4	Kyoichi	Malniak	4	Philips LOW WATT Air Fryer HD9200/91 - 800 Watt - R...	980000	4	3920000	2023-04-11	COD
5	5	Anneke	Preusig	5	COOGER Spin Mop Blue 360 derajat - Alat Pel Lantai ...	74900	1	74900	2023-05-12	VA Mandiri
6	6	Tzvetan	Zielinski	6	Wardah Body Care Olive Series - Natural Halal Melemb...	75240	3	225720	2023-06-13	Gopay
7	7	Atelier	NULL	7	Serum Avoskin Miraculous Refining 30ml-AHA BHA-W...	224000	5	1120000	2023-07-14	OVO
8	1	Bezalel	Simmel	8	Cetaphil Baby Daily Lotion with Organic Calendula 400 ...	68500	3	205500	2023-08-15	COD
9	2	Parto	Bamford	9	Cocolatte Stroller Bayi CL 909 Spin Reversible - Orange	1449000	7	10143000	2023-09-16	VA Mandiri
10	3	Chirstian	Koblick	10	Minimal Aires Shirt Green - GREEN, S	360000	8	2880000	2023-10-17	Gopay
11	4	Kyoichi	Malniak	11	Dress Anak Bayi Perempuan Cewek Putih Kelinci Katun...	69500	1	69500	2023-11-18	OVO
12	5	Anneke	Preusig	12	Kemeja Lengan Panjang Pria Cottonology Hella Hitam -...	10500	2	21000	2023-12-19	COD
13	6	Tzvetan	Zielinski	13	Milna Biskuit Bayi Jeruk 130gr	17000	4	68000	2022-01-20	VA Mandiri
14	7	Atelier	NULL	14	Coca Cola Japanese Design LIMITED EDITION JAPAN	48400	9	435600	2022-02-21	Gopay
15	1	Bezalel	Simmel	15	Kusuka Keripik Singkong Ayam Lada Hitam 180 gram	16900	4	67600	2022-03-22	OVO
16	2	Parto	Bamford	16	Vitamin C	90000	5	450000	2022-04-23	COD
17	1	Bezalel	Simmel	4	Philips LOW WATT Air Fryer HD9200/91 - 800 Watt - R...	980000	2	1960000	2022-05-24	VA Mandiri
18	3	Chirstian	Koblick	3	Milk Frother Elektrik Pembuih Susu Baterai Hand Mixer ...	99000	1	99000	2022-06-25	Gopay