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No: 14

## FINAL PROJECT

### Nomor 1

1. Buatlah query untuk menampilkan data tickets join table airports join table airlines, di mana airline name adalah **XYZ**  
**Airlines**

id	stock	price	departure_time	airport_arrival_name	airport_departure_name	airline_name
1	100	1000000	2023-01-01 10.00.00.000	Adisumarmo International Airport	Soekarno Hatta International tAirport	XYZ Airlines
2	100	1000000	2023-01-01 11.00.00.000	Adisucipto International Airport	Soekarno Hatta International tAirport	XYZ Airlines
3	100	1000000	2023-01-01 12.00.00.000	Kualanamu International Airport	Soekarno Hatta International tAirport	XYZ Airlines
4	100	1000000	2023-04-05 06.00.00.000	Soekarno Hatta International tAirport	Adisucipto International Airport	XYZ Airlines
5	100	1000000	2023-03-03 08.00.00.000	Soekarno Hatta International tAirport	Kualanamu International Airport	XYZ Airlines
6	100	1000000	2023-05-02 07.00.00.000	Singapore Changi Airport	Soekarno Hatta International tAirport	XYZ Airlines

SQLQuery\_final pro...UR1F2IF\USER (67)) X LAPTOP-GUR1F2IF.S...9\_DB - dbo.tickets LAPTOP-GUR1F2IF.S...- dbo.transactions

```
/*NO 1*/
SELECT t.id, t.stock, t.price, t.departure_time,
       aa.airport_name as airport_arrival_name, ad.airport_name as airport_departure_name,
       al.airline_name
FROM tickets t
JOIN airlines al
ON t.airlines_id = al.id
JOIN airports ad
ON t.airport_departure_id = ad.id
JOIN airports aa
ON t.airport_arrival_id = aa.id
WHERE t.airlines_id = al.id
```

100 %

Results Messages

	id	stock	price	departure_time	airport_arrival_name	airport_departure_name	airline_name
1	1	100	1000000	2023-01-01 10:00:00.000	Adisumarmo International Airport	Soekarno Hatta International tAirport	XYZ Airlines
2	2	100	1000000	2023-01-01 11:00:00.000	Adisucipto International Airport	Soekarno Hatta International tAirport	XYZ Airlines
3	3	100	1000000	2023-01-01 12:00:00.000	Kualanamu International Airport	Soekarno Hatta International tAirport	XYZ Airlines
4	4	100	1000000	2023-04-05 06:00:00.000	Soekarno Hatta International tAirport	Adisucipto International Airport	XYZ Airlines
5	5	100	1000000	2023-03-03 08:00:00.000	Soekarno Hatta International tAirport	Kualanamu International Airport	XYZ Airlines
6	6	100	1000000	2023-05-02 07:00:00.000	Singapore Changi Airport	Soekarno Hatta International tAirport	XYZ Airlines
7	7	100	1000000	2023-02-26 10:00:00.000	Suvarnabhumi Airport	Soekarno Hatta International tAirport	ABC Airlines
8	8	100	1000000	2023-03-30 11:00:00.000	Singapore Changi Airport	Soekarno Hatta International tAirport	ABC Airlines
9	9	100	1000000	2023-01-18 12:00:00.000	Adisumarmo International Airport	Soekarno Hatta International tAirport	ABC Airlines
10	1...	100	1000000	2023-04-05 06:00:00.000	Adisumarmo International Airport	Adisucipto International Airport	ABC Airlines
11	1...	100	1000000	2023-06-15 08:00:00.000	Soekarno Hatta International tAirport	Kualanamu International Airport	ABC Airlines
12	1...	100	1000000	2023-05-12 07:00:00.000	Adisucipto International Airport	Adisumarmo International Airport	ABC Airlines
13	1...	100	1000000	2023-06-26 10:00:00.000	Suvarnabhumi Airport	Adisumarmo International Airport	QWE Air

## Nomor 2

- Buatlah query untuk menampilkan transaksi yang dilakukan oleh user dengan nama depan **Bezalel**. Transaksi yang ditampilkan harus menampilkan data id, transaction date, user first name, user last name, transaction price, airline, airport arrival name, dan airport departure name

id	transaction_date	first_name	last_name	price	airline_name	airport_arrival_name	airport_departure_name
1	2022-01-12	Bezalel	Simmel	1000000	XYZ Airlines	Adisumarmo International Airport	Soekarno Hatta International tAirport
2	2022-12-23	Bezalel	Simmel	1000000	XYZ Airlines	Adisucipto International Airport	Soekarno Hatta International tAirport
3	2022-08-07	Bezalel	Simmel	1000000	XYZ Airlines	Soekarno Hatta International tAirport	Adisucipto International Airport
4	2022-09-13	Bezalel	Simmel	1000000	ABC Airlines	Adisucipto International Airport	Adisumarmo International Airport
5	2022-07-18	Bezalel	Simmel	1000000	ASD Air	Soekarno Hatta International tAirport	Kualanamu International Airport
6	2022-03-20	Bezalel	Simmel	1000000	ASD Air	Soekarno Hatta International tAirport	Singapore Changi Airport
7	2022-02-24	Bezalel	Simmel	1000000	XYZ Airlines	Kualanamu International Airport	Soekarno Hatta International tAirport
8	2022-04-27	Bezalel	Simmel	1000000	XYZ Airlines	Soekarno Hatta International tAirport	Kualanamu International Airport
9	2022-03-28	Bezalel	Simmel	1000000	ASD Air	Soekarno Hatta International tAirport	Adisucipto International Airport
10	2022-07-30	Bezalel	Simmel	1000000	QWE Air	Soekarno Hatta International tAirport	Suvarnabhumi Airport

SQLQuery\_final pro...UR1F2IF\USER (67)) ✕ LAPTOP-GUR1F2IF.S...9\_DB - dbo.tickets LAPTOP-GUR1F2IF.S...- dbo.transactions

```

/*NO 2*/
SELECT tr.id, tr.transaction_date, us.first_name, us.last_name, tr.price,
       al.airline_name, aa.airport_name as airport_arrival_name,
       ad.airport_name as airport_departure_name
FROM transactions tr
JOIN tickets t
ON tr.ticket_id = t.id
JOIN users us
ON tr.user_id = us.id
JOIN airlines al
ON t.airlines_id = al.id
JOIN airports ad
ON t.airport_departure_id = ad.id
JOIN airports aa
ON t.airport_arrival_id = aa.id
WHERE us.first_name = 'Bezalel'

```

100 %

Results Messages

	id	transaction_date	first_name	last_name	price	airline_name	airport_arrival_name	airport_departure_name
1	1	2022-01-12	Bezalel	Simmel	1000000	XYZ Airlines	Adisumarmo International Airport	Soekarno Hatta International tAirport
2	2	2022-12-23	Bezalel	Simmel	1000000	XYZ Airlines	Adisucipto International Airport	Soekarno Hatta International tAirport
3	3	2022-08-07	Bezalel	Simmel	1000000	XYZ Airlines	Soekarno Hatta International tAirport	Adisucipto International Airport
4	4	2022-09-13	Bezalel	Simmel	1000000	ABC Airlines	Adisucipto International Airport	Adisumarmo International Airport
5	5	2022-07-18	Bezalel	Simmel	1000000	ASD Air	Soekarno Hatta International tAirport	Kualanamu International Airport
6	6	2022-03-20	Bezalel	Simmel	1000000	ASD Air	Soekarno Hatta International tAirport	Singapore Changi Airport
7	7	2022-02-24	Bezalel	Simmel	1000000	XYZ Airlines	Kualanamu International Airport	Soekarno Hatta International tAirport
8	8	2022-04-27	Bezalel	Simmel	1000000	XYZ Airlines	Soekarno Hatta International tAirport	Kualanamu International Airport

### Nomor 3

3. Buatlah query untuk menampilkan data user seperti di bawah ini

fullname	gender	email
Bezalel Simmel	F	bezael.simmel@gmail.com
Parto Bamford	M	parto.bamford@gmail.com
Chirstian Koblick	M	chirstian.koblick@gmail.com
Kyoichi Maliniak	M	kyoichi.maliniak@gmail.com
Anneke Preusik	F	anneke.preusik@mgmail.com
Tzvetan Zielinski	F	tsvetan.zielinski@gmail.com

```
/*NO 3*/
SELECT CONCAT(first_name, last_name) as fullname, gender, email
FROM users
```

100 %

Results Messages

	fullname	gender	email
1	BezalelSimmel	F	bezael.simmel@gmail.com
2	PartoBamford	M	parto.bamford@gmail.com
3	ChirstianKoblick	M	chirstian.koblick@gmail.com
4	KyoichiMaliniak	M	kyoichi.maliniak@gmail.com
5	AnnekePreusik	F	anneke.preusik@mgmail.com
6	TzvetanZielinski	F	tsvetan.zielinski@gmail.com

#### Nomor 4

4. Buatlah query untuk mengambil data ticket dengan penjualan yang paling besar (diambil dari count transaction dan dikelompokkan berdasarkan ticket\_id)

ticket_sold	ticket_id
4	12
4	20
4	21
4	17

Ticket\_sold adalah jumlah (count) transaksi per tiket

SQLQuery\_final pro...UR1F2IF\USER (67)) X LAPTOP-GUR1F2IF.S...9

```
/*NO 4*/
WITH ticket_biggest_sale AS(
    SELECT ticket_id, COUNT(id) AS ticket_sold
    FROM transactions
    GROUP BY ticket_id
)
SELECT tbs.ticket_sold, t.id AS ticket_id
FROM tickets t
JOIN ticket_biggest_sale tbs
ON t.id = tbs.ticket_id
ORDER BY tbs.ticket_sold DESC
OFFSET 0 ROWS
FETCH NEXT 4 ROWS ONLY
```

100 %

Results Messages

	ticket_sold	ticket_id
1	4	12
2	4	20
3	4	21
4	4	17

## Nomor 5

- Buatlah query untuk membuat stored procedure untuk mengambil data transaksi

```
EXEC get_transaction_by_date
@start_date = '2022-01-12',
@end_date = '2022-02-15'
```

id	transaction_date	first_name	last_name	price	airline_name	airport_arrival_name	airport_departure_name
1	2022-01-12	Bezalel	Simmel	1000000	XYZ Airlines	Adisumarmo International Airport	Soekarno Hatta International tAirport
29	2022-01-13	Chirstian	Koblick	1000000	ZXC Airways	Soekarno Hatta International tAirport	Adisumarmo International Airport
30	2022-02-11	Chirstian	Koblick	1000000	ZXC Airways	Soekarno Hatta International tAirport	Adisumarmo International Airport
33	2022-02-02	Kyoichi	Maliniak	1000000	XYZ Airlines	Soekarno Hatta International tAirport	Adisucipto International Airport
42	2022-02-06	Anneke	Preusik	1000000	ASD Air	Soekarno Hatta International tAirport	Singapore Changi Airport

```
SQLQuery_final pro...UR1F2IF\USER (67)) X LAPTOP-GUR1F2IF.S...9_DB - dbo.tickets LAPTOP-GUR1F2IF.S...- d
/*NO 5*/
ALTER PROCEDURE get_transaction_by_date (@start_date AS date, @end_date AS date) AS
BEGIN
    SELECT
        tr.id, tr.transaction_date, us.first_name, us.last_name,
        tr.price, al.airline_name,
        aa.airport_name as airport_arrival_name,
        ad.airport_name as airport_departure_name
    FROM transactions tr
    JOIN tickets t
    ON tr.ticket_id = t.id
    JOIN users us
    ON tr.user_id = us.id
    JOIN airlines al
    ON t.airlines_id = al.id
    JOIN airports aa
    ON t.airport_departure_id = aa.id
    JOIN airports ad
    ON t.airport_arrival_id = ad.id
    WHERE tr.transaction_date BETWEEN @start_date AND @end_date
    ORDER BY tr.id
END;

EXEC get_transaction_by_date
@start_date = '2022-01-12',
@end_date = '2022-02-15'
```

100 %

Results Messages

	id	transaction_date	first_name	last_name	price	airline_name	airport_arrival_name	airport_departure_name
1	1	2022-01-12	Bezalel	Simmel	1000000	XYZ Airlines	Soekarno Hatta International tAirport	Adisumarmo International Airport
2	29	2022-01-13	Chirstian	Koblick	1000000	ZXC Airways	Adisumarmo International Airport	Soekarno Hatta International tAirport
3	30	2022-02-11	Chirstian	Koblick	1000000	ZXC Airways	Adisumarmo International Airport	Soekarno Hatta International tAirport
4	33	2022-02-02	Kyoichi	Maliniak	1000000	XYZ Airlines	Adisucipto International Airport	Soekarno Hatta International tAirport
5	42	2022-02-06	Anneke	Preusik	1000000	ASD Air	Singapore Changi Airport	Soekarno Hatta International tAirport