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1. Query sesuai hasil yang disoal

```
SELECT tb.id AS bill_id, trans_date, mc.customer_name, mt.table_name, tb.trans_type, SUM(mmp.price * tbd.qty) AS subtotal
FROM t_bill tb
    JOIN m_customer mc ON mc.id = tb.customer_id
    LEFT JOIN m_table mt ON mt.id = tb.table_id
    JOIN t_bill_detail tbd ON tbd.bill_id = tb.id
    JOIN m_menu_price mmp ON mmp.id = tbd.menu_price_id
GROUP BY tb.id, trans_date, mc.customer_name, mt.table_name, tb.trans_type
ORDER BY tb.id;
```

Output: Nomor 1

bill_id	trans_date	customer_name	table_name	trans_type	subtotal
1	2022-06-01	Kadir	T01	EI	10500
2	2022-06-01	Basuki	T02	EI	11000
3	2022-06-01	Munaroh	T01	EI	17000
4	2022-06-02	Adinda	<null>	TA	25000
5	2022-06-03	Basuki	T01	EI	11000
6	2022-06-03	Rozak	T02	EI	14000
7	2022-06-03	Devi	T03	EI	16000
8	2022-06-03	Qibil	T02	EI	14000
9	2022-06-03	Nurman	T04	EI	10500
10	2022-06-04	Basuki	T01	EI	10000
11	2022-06-04	Rozak	T04	EI	11500
12	2022-06-05	Rozak	<null>	TA	30000

2. Menghitung menu sales contribution dari penjualan WMB per hari-nya. Sales Contribution = (sub total / grand total) * 100

```
-- Nomor 2
SELECT
    tb.trans_date AS trans_date,
    mm.menu_name AS menu_name,
    SUM(mmp.price * tbd.qty) AS sub_total,
    daily_total.total AS grand_total,
    (SUM(mmp.price * tbd.qty) / daily_total.total) * 100 AS sales_contribution
FROM
    t_bill tb
    JOIN t_bill_detail tbd ON tb.id = tbd.bill_id
    JOIN m_menu_price mmp ON tbd.menu_price_id = mmp.id
    JOIN m_menu mm ON mmp.menu_id = mm.id
    JOIN (
        SELECT
            tb.trans_date AS trans_date,
            SUM(mmp.price * tbd.qty) AS total
        FROM
            t_bill tb
            JOIN t_bill_detail tbd ON tb.id = tbd.bill_id
            JOIN m_menu_price mmp ON tbd.menu_price_id = mmp.id
        GROUP BY
            tb.trans_date
    ) AS daily_total ON tb.trans_date = daily_total.trans_date
GROUP BY
    tb.trans_date,
    mm.menu_name,
    daily_total.total
ORDER BY
    tb.trans_date,
    sub_total DESC;
```

Output Nomor 2					
28 rows					
	trans_date	menu_name	sub_total	grand_total	sales_contribution
1	2022-06-01	Nasi Goreng	12000	38500	31.168830394744873
2	2022-06-01	Nasi Putih	6000	38500	15.584415197372437
3	2022-06-01	Telur Ceplok	5000	38500	12.987013161182404
4	2022-06-01	Tempe	4000	38500	10.389610379934311
5	2022-06-01	Tahu	4000	38500	10.389610379934311
6	2022-06-01	Es Teh Tawar	3000	38500	7.792207598686218
7	2022-06-01	Sayur Lodeh	2500	38500	6.493506580591202
8	2022-06-01	Sayur Sop	2000	38500	5.1948051899671555
9	2022-06-02	Nasi Goreng Spesial	25000	25000	100
10	2022-06-03	Aneka Gorengan	14000	65500	21.374045312404633
11	2022-06-03	Indomie Goreng Telor	10000	65500	15.267175436019897
12	2022-06-03	Nasi Putih	7500	65500	11.450381577014923
13	2022-06-03	Es Ovaltine	6000	65500	9.160305559635162
14	2022-06-03	Telur Dadar	5000	65500	7.633587718009949
15	2022-06-03	Kopi Kapal Api	4000	65500	6.106870248913765
16	2022-06-03	Telur Balado	4000	65500	6.106870248913765
17	2022-06-03	Tempe Orek	3000	65500	4.580152779817581
18	2022-06-03	Es Teh Tawar	3000	65500	4.580152779817581
19	2022-06-03	Sayur Tahu	3000	65500	4.580152779817581
20	2022-06-03	Sayur Buncis	3000	65500	4.580152779817581
21	2022-06-03	Sayur Kangkung	1500	65500	2.2900763899087906
22	2022-06-03	Es Teh Manis	1500	65500	2.2900763899087906
23	2022-06-04	Indomie Kari Ayam Telor	10000	21500	46.51162922382355
24	2022-06-04	Nasi Putih	4000	21500	18.60465109348297
25	2022-06-04	Es Teh Manis	3000	21500	13.953489065170288
26	2022-06-04	Sayur Lodeh	2500	21500	11.627907305955887
27	2022-06-04	Tempe	2000	21500	9.302325546741486
28	2022-06-05	Aneka Gorengan	30000	30000	100

3. Menghitung menu sales contribution dari penjualan WMB per total keseluruhan.

```
-- Nomor 3
SELECT
    mm.menu_name AS menu_name,
    SUM(mmp.price * tbd.qty) AS sub_total,
    total_all.total AS grand_total,
    (SUM(mmp.price * tbd.qty) / total_all.total) * 100 AS sales_contribution
FROM
    t_bill tb
    JOIN t_bill_detail tbd ON tb.id = tbd.bill_id
    JOIN m_menu_price mmp ON tbd.menu_price_id = mmp.id
    JOIN m_menu mm ON mmp.menu_id = mm.id
    CROSS JOIN (
        SELECT
            SUM(mmp.price * tbd.qty) AS total
        FROM
            t_bill tb
            JOIN t_bill_detail tbd ON tb.id = tbd.bill_id
            JOIN m_menu_price mmp ON tbd.menu_price_id = mmp.id
        ) AS total_all
GROUP BY
    mm.menu_name, total_all.total
ORDER BY
    sub_total DESC;
```

Output				
Nomor 3				
21 rows				
	menu_name	sub_total	grand_total	sales_contribution
1	Aneka Gorengan	44000	180500	24.376730620861053
2	Nasi Goreng Spesial	25000	180500	13.850416243076324
3	Nasi Putih	17500	180500	9.69529077410698
4	Nasi Goreng	12000	180500	6.648199260234833
5	Indomie Goreng Telor	10000	180500	5.540166050195694
6	Indomie Kari Ayam Telor	10000	180500	5.540166050195694
7	Tempe	6000	180500	3.3240996301174164
8	Es Teh Tawar	6000	180500	3.3240996301174164
9	Es Ovaltine	6000	180500	3.3240996301174164
10	Telor Dadar	5000	180500	2.770083025097847
11	Telor Ceplok	5000	180500	2.770083025097847
12	Sayur Lodeh	5000	180500	2.770083025097847
13	Es Teh Manis	4500	180500	2.4930747225880623
14	Kopi Kapal Api	4000	180500	2.2160664200782776
15	Tahu	4000	180500	2.2160664200782776
16	Telor Balado	4000	180500	2.2160664200782776
17	Sayur Tahu	3000	180500	1.6620498150587082
18	Tempe Orek	3000	180500	1.6620498150587082
19	Sayur Buncis	3000	180500	1.6620498150587082
20	Sayur Sop	2000	180500	1.1080332100391388
21	Sayur Kangkung	1500	180500	0.8310249075293541

4. Mencari maksimum transaksi yang terjadi.

```
326
327
328 -- Nomor 4 mencari MAX nya sesuai soal
329 SELECT COUNT(mmp.menu_id) AS max
330 FROM t_bill_detail tbd
331      JOIN t_bill tb ON tb.id = tbd.bill_id
332      JOIN m_menu_price mmp ON mmp.id = tbd.menu_price_id
333 GROUP BY trans_date
334 HAVING COUNT(mmp.menu_id) = (
335     SELECT MAX(total_transaction)
336     FROM (
337         SELECT COUNT(mmp.menu_id) AS total_transaction
338         FROM t_bill_detail tbd
339              JOIN t_bill tb ON tb.id = tbd.bill_id
340              JOIN m_menu_price mmp ON mmp.id = tbd.menu_price_id
341         GROUP BY trans_date
342     ) AS subquery
343 );
```

Output: Nomor 4 mencari MAX nya sesuai soal

max
17

5. Mencari Total Bill (Rp) di Week-End (Saturday - Sunday) dan Week Day (Monday - Friday).

```
346
347 -- Nomor 5
348 SELECT
349     SUM(CASE WHEN trans_date = '2022-06-04' OR trans_date = '2022-06-05' THEN subtotal ELSE 0 END) AS weekend,
350     SUM(CASE WHEN trans_date = '2022-06-01' OR trans_date = '2022-06-02' OR trans_date = '2022-06-03' THEN subtotal ELSE 0 END) AS weekday
351 FROM (
352     SELECT
353         trans_date,
354         SUM(mmp.price * tbd.qty) AS subtotal
355     FROM
356         t_bill_detail tbd
357         JOIN t_bill tb ON tb.id = tbd.bill_id
358         JOIN m_menu_price mmp ON mmp.id = tbd.menu_price_id
359     WHERE
360         trans_date IN ('2022-06-01', '2022-06-02', '2022-06-03', '2022-06-04', '2022-06-05')
361     GROUP BY
362         trans_date
363 ) AS daily_total;
```

Output: Nomor 5

weekend	weekday
51500	129000