

### Tugas Individu 3

## Structure Query Language (SQL) - Advanced Query

**Deadline: Kamis, 3 November 2022 Pukul 23.55 Waktu Scele**

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**Kelas:** A

[illegible]

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-- 4
-- ASUMSI: makanan yang ditampilkan tidak ada yang duplikat (DISTINCT)
SELECT DISTINCT tf.foodname
FROM transaction_food tf
WHERE EXISTS(
    SELECT CONCAT(u.fname, ' ', u.lname)
    FROM user_acc u
        INNER JOIN transaction t USING (email)
    WHERE CONCAT(u.fname, ' ', u.lname) = 'Carissa Magnolia'
        AND tf.email = t.email
        AND tf.datetime = t.datetime
)
AND tf.note IS NOT NULL;

-- 5
-- ASUMSI: nama kurir yang ditampilkan tidak ada yang duplikat (DISTINCT)
WITH courier_transaction AS (SELECT CONCAT(u.fname, ' ', u.lname) AS couriername,
                                c.email,
                                tf.rname,
                                tf.rbranch
                                FROM user_acc u
                                    INNER JOIN courier c
                                        USING (email)
                                    INNER JOIN transaction t
                                        ON c.email = t.courierid
                                    INNER JOIN transaction_food tf
                                        ON t.email = tf.email
                                        AND t.datetime = tf.datetime)

SELECT DISTINCT ct.couriername
FROM courier_transaction ct
WHERE rname = 'KFC'
    AND rbranch = 'Margonda'
    AND ct.email NOT IN (SELECT ct2.email
                        FROM courier_transaction ct2
                        WHERE ct2.rname = 'KFC'
                        AND ct2.rbranch = 'Lenteng Agung');

-- 6
SELECT CONCAT(u.fname, ' ', u.lname) AS name, u.email
FROM user_acc u
WHERE u.email NOT IN (SELECT t.email
                    FROM transaction t);

```

```

-- 7
SELECT CONCAT(u.fname, ' ', u.lname) AS name, u.email
FROM (SELECT t.email
      FROM transaction t
      GROUP BY 1
      HAVING COUNT(*) = (SELECT COUNT(*) FROM payment_method)) t_pm
      INNER JOIN user_acc u USING (email);

-- 8
-- ASUMSI: Yang paling laku artinya cuman query 1 teratas
WITH jumlahpembelian_food AS (SELECT f.foodname,
                                     f.price,
                                     f.rname,
                                     f.rbranch,
                                     SUM(amount) AS jumlahpembelian
                                FROM transaction_food tf
                                     INNER JOIN food f
                                     USING (rname, rbranch, foodname)
                                GROUP BY 1, 2, 3, 4)

SELECT foodname, price
FROM jumlahpembelian_food
WHERE rname = 'KFC'
      AND rbranch = 'Margonda'
ORDER BY jumlahpembelian DESC
LIMIT 1;

-- 9
-- ASUMSI: nama dan cabang restoran juga ditampilkan
SELECT rname,
       rbranch,
       COUNT(*) AS jumlahmenu,
       MIN(price) AS minprice,
       MAX(price) AS maxprice
FROM food f
GROUP BY 1, 2;

```

```
-- 10
-- ASUMSI:
-- min_transaction_promo selalu valid jika masih dalam durasinya dan
-- special_day_promo hanya valid jika hari ini adalah hari spesialnya
SELECT p.promoname
FROM (SELECT pid
      FROM restaurant_promo t
      WHERE start_promo <= CURRENT_TIMESTAMP
            AND end_promo >= CURRENT_TIMESTAMP
      GROUP BY 1
      HAVING COUNT(*) >= 10) AS rp_pid
      INNER JOIN promo p ON rp_pid.pid = p.id_promo
WHERE p.id_promo IN (SELECT id_special_day_promo
                    FROM special_day_promo
                    WHERE date = CURRENT_DATE
                    UNION
                    SELECT id_min_transaction_promo
                    FROM min_transaction_promo);
```

### **Code of Conduct:**

Saya menyatakan bahwa tugas ini saya kerjakan dengan usaha sendiri. Saya tidak menyalin jawaban dari sumber manapun. Saya bertanggung jawab menjaga agar jawaban tugas saya tidak disalin oleh peserta lainnya.



Eduardus Tjitrahardja