

**CSGE602070 BASIS DATA**

**Semester Ganjil 2022/2023**

**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

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-- 1

-- ASUMSI: provinsi Yogyakarta bisa saja  
-- dituliskan sebagai DI Yogyakarta atau Yogyakarta  
SELECT rname, rbranch  
FROM restaurant  
WHERE province LIKE '%Yogyakarta'  
 AND rating > 4.5;

-- 2  
SELECT foodname  
FROM food  
WHERE price BETWEEN 10000 AND 50000;  
  
  
-- 3  
-- ASUMSI: Mengquery semua ingredient yang mengandung kata kacang case insensitive  
SELECT f.foodname  
FROM food f  
WHERE f.rname = 'ABX'  
 AND f.foodname IN (SELECT fi.foodname  
 FROM food\_ingredient fi  
 INNER JOIN ingredient i ON i.id = fi.ingredient  
 WHERE *LOWER*(i.name) LIKE '%kacang%');

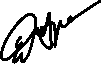
-- 4  
-- ASUMSI: makanan yang ditampilkan tidak ada yang duplikat (DISTINCT)  
SELECT DISTINCT tf.foodname   
FROM transaction\_food tf  
WHERE *EXISTS*(  
 SELECT *CONCAT*(u.fname, ' ', u.lname)  
 FROM user\_acc u  
 INNER JOIN transaction t USING (email)  
 WHERE *CONCAT*(u.fname, ' ', u.lname) = '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*(DISTINCT t.pmid) = (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.



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