

FALL2022

COURSE TITLE: DATABASE SYSTEMS

COURSE CODE: CSE370 LAB HOMEWORK: 04

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ID: 21301744 SECTION: 05 1. SELECT cn.customer_name, In.loan_number FROM customer cn, borrower b, Ioan In WHERE cn.customer_id=b.customer_id AND b.loan_number=In.loan_number AND In.branch_name='Downtown'

t		
customer_name	loan_number	
Johnson	L-14	
Jones	L-17	
Williams	L-17	
++ 3 rows in set (0.004 sec)		

2. SELECT ci1.customer_id AS Customer1, ci2.customer_id AS Customer2, ci1.customer_city AS City FROM customer ci1, customer ci2 WHERE ci1.customer_id!=ci2.customer_id AND ci1.customer_city=ci2.customer_city GROUP BY city;

Customer1	+ Customer2 +	City
C-211 C-225 C-212 C-255	C-101 C-215 C-201 C-220	Harrison Pittsfield Rye Stamford
f 1 rows in set (0.002 sec)		

3. SELECT Branch_name, SUM(balance * 0.04) AS total_interest FROM account GROUP BY branch_name;

+ Branch_name	total_interest
Brighton Downtown Mianus Perryridge Redwood Round Hill	66.00 20.00 28.00 16.00 28.00 14.00
6 rows in set ((0.003 sec)

4.

WITH jt AS (SELECT c.Customer_id, c.Customer_name, c.Customer_city, d.account_number, a.balance FROM ((Customer c INNER JOIN Depositor d ON c.Customer_id = d.Customer_id) INNER JOIN account a ON a.account_number = d.account_number)) SELECT k1.account_number, k1.customer_city FROM jt k1 WHERE k1.balance >= ALL(SELECT k2.balance FROM kr k2 WHERE k1.customer_city = k2.customer_city AND k1.account_number != k2.account_number);

account_number	Customer_city	
A-217 A-215 A-222 A-305 A-201	Harrison Rye Pittsfield Stamford Palo Alto	
rows in set (0.005 sec)		

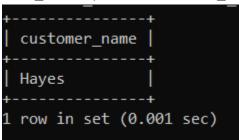
5.

WITH new AS (SELECT I.loan_number, I.amount, c.customer_name FROM loan I, borrower b, customer c WHERE I.loan_number=b.loan_number AND c.customer_id=b.customer_id ORDER BY I.amount desc limit 5) SELECT * FROM new ORDER BY amount;

loan_number	amount	customer_name	
L-17 L-16 L-14 L-15 L-23	1300	Jones Adams Johnson Hayes Smith	
+ 5 rows in set (0.001 sec)			

6.

SELECT c.customer_name FROM ((((customer c INNER JOIN depositor d ON c.customer_id = d.customer_id) INNER JOIN account a ON a.account_number = d.account_number)INNER JOIN borrower b ON c.customer_id = b.customer_id) INNER JOIN loan I ON b.loan_number = I.loan_number) WHERE a.branch_name = 'Perryridge' AND I.branch_name = 'Perryridge';



7.
WITH jt AS(SELECT c.customer_id, c.customer_name, b.loan_number, l.amount FROM (
(customer c INNER JOIN borrower b ON c.customer_id = b.customer_id) INNER JOIN loan I
ON b.loan_number = l.loan_number)) SELECT customer_name, SUM(amount) AS total_loan
FROM jt GROUP BY customer_id HAVING count(*)>=2;

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+-----+
| customer_name | total_loan |
+-----+
| Smith | 2900 |
+-----+
1 row in set (0.002 sec)
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