

CSE370 : Database Systems

Assignment 03 | Summer 2025

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No 1 Query (as Plain Text)	select c.customer_name,b.loan_number from customer c,borrower b,loan l where c.customer_id=b.customer_id and b.loan_number=l.loan_number and l.branch_name='Downtown';																	
No 1 SS (of Query & Output in Shell)	<pre>1 v select c.customer_name,b.loan_number from customer c,borrower b,loan l 2 where c.customer_id=b.customer_id and b.loan_number=l.loan_number 3 and l.branch_name='Downtown';</pre>	<table><tr><th>customer_name</th><th>loan_number</th></tr><tr><td>Johnson</td><td>L-14</td></tr><tr><td>Jones</td><td>L-17</td></tr><tr><td>Williams</td><td>L-17</td></tr></table>		customer_name	loan_number	Johnson	L-14	Jones	L-17	Williams	L-17							
customer_name	loan_number																	
Johnson	L-14																	
Jones	L-17																	
Williams	L-17																	
No 2 Query (as Plain Text)	select c1.customer_name,c2.customer_name,c1.customer_city from customer c1, customer c2 where c1.customer_city = c2.customer_city and c1.customer_id < c2.customer_id;																	
No 2 SS (of Query & Output in Shell)	<pre>1 v select c1.customer_name,c2.customer_name,c1.customer_city from customer c1, customer c2 2 where c1.customer_city = c2.customer_city and c1.customer_id < c2.customer_id;</pre>	<table><tr><th>customer_name</th><th>customer_name</th><th>customer_city</th></tr><tr><td>Jones</td><td>Hayes</td><td>Harrison</td></tr><tr><td>Smith</td><td>Curry</td><td>Rye</td></tr><tr><td>Lindsay</td><td>Adams</td><td>Pittsfield</td></tr><tr><td>Turner</td><td>Green</td><td>Stamford</td></tr></table>		customer_name	customer_name	customer_city	Jones	Hayes	Harrison	Smith	Curry	Rye	Lindsay	Adams	Pittsfield	Turner	Green	Stamford
customer_name	customer_name	customer_city																
Jones	Hayes	Harrison																
Smith	Curry	Rye																
Lindsay	Adams	Pittsfield																
Turner	Green	Stamford																
No 3 Query (as Plain Text)	SELECT a.branch_name, SUM(a.balance * 0.04) from account a group by a.branch_name;																	

No 3 SS (of Query & Output in Shell)	<pre>1 SELECT a.branch_name, SUM(a.balance * 0.04) from account a group by a.branch_name;</pre>	<table><tr><th>branch_name</th><th>SUM(a.balance * 0.04)</th></tr><tr><td>Brighton</td><td>66.00</td></tr><tr><td>Downtown</td><td>20.00</td></tr><tr><td>Mianus</td><td>28.00</td></tr><tr><td>Perryridge</td><td>16.00</td></tr><tr><td>Redwood</td><td>28.00</td></tr><tr><td>Round Hill</td><td>14.00</td></tr></table>	branch_name	SUM(a.balance * 0.04)	Brighton	66.00	Downtown	20.00	Mianus	28.00	Perryridge	16.00	Redwood	28.00	Round Hill	14.00
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Perryridge	16.00															
Redwood	28.00															
Round Hill	14.00															
No 4 Query (as Plain Text)	select a.account_number,b.branch_city from account a,branch b where a.branch_name = b.branch_name and (b.branch_city, a.balance) in (select b.branch_city, max(a.balance) from account a,branch b where a.branch_name = b.branch_name group by b.branch_city);															
No 4 SS (of Query & Output in Shell)	<pre>1 v select a.account_number,b.branch_city from account a,branch b 2 where a.branch_name = b.branch_name and 3 (b.branch_city, a.balance) in 4 (select b.branch_city, max(a.balance) from account a,branch b 5 where a.branch_name = b.branch_name group by b.branch_city);</pre>	<table><tr><th>account_number</th><th>branch_city</th></tr><tr><td>A-201</td><td>Brooklyn</td></tr><tr><td>A-215</td><td>Horseneck</td></tr><tr><td>A-222</td><td>Palo Alto</td></tr></table>	account_number	branch_city	A-201	Brooklyn	A-215	Horseneck	A-222	Palo Alto						
account_number	branch_city															
A-201	Brooklyn															
A-215	Horseneck															
A-222	Palo Alto															
No 5 Query (as Plain Text)	select l.loan_number, l.amount, c.customer_name from loan l,borrower b,customer c where l.loan_number = b.loan_number and b.customer_id = c.customer_id order by l.amount asc, l.loan_number desc limit 5;															

No 5 SS (of Query & Output in Shell)	<pre>1 v select l.loan_number, l.amount, c.customer_name from loan l,borrower b,customer c 2 where l.loan_number = b.loan_number and b.customer_id = c.customer_id 3 order by l.amount asc, l.loan_number desc limit 5;</pre>	<table><tr><th>loan_number</th><th>amount</th><th>customer_name</th></tr><tr><td>L-93</td><td>500</td><td>Curry</td></tr><tr><td>L-11</td><td>900</td><td>Smith</td></tr><tr><td>L-17</td><td>1000</td><td>Jones</td></tr><tr><td>L-17</td><td>1000</td><td>Williams</td></tr><tr><td>L-16</td><td>1300</td><td>Adams</td></tr></table>	loan_number	amount	customer_name	L-93	500	Curry	L-11	900	Smith	L-17	1000	Jones	L-17	1000	Williams	L-16	1300	Adams
loan_number	amount	customer_name																		
L-93	500	Curry																		
L-11	900	Smith																		
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L-17	1000	Williams																		
L-16	1300	Adams																		
No 6 Query (as Plain Text)	select distinct c.customer_name from customer c,depositor d,account a,borrower b,loan l where c.customer_id = d.customer_id and d.account_number = a.account_number and c.customer_id = b.customer_id and b.loan_number = l.loan_number and a.branch_name = 'Perryridge' and l.branch_name = 'Perryridge';																			
No 6 SS (of Query & Output in Shell)	<pre>1 v select distinct c.customer_name from customer c,depositor d,account a,borrower b,loan l 2 where c.customer_id = d.customer_id and d.account_number = a.account_number 3 and c.customer_id = b.customer_id and b.loan_number = l.loan_number 4 and a.branch_name = 'Perryridge' and l.branch_name = 'Perryridge';</pre>	<table><tr><th>customer_name</th></tr><tr><td>Hayes</td></tr></table>	customer_name	Hayes																
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Hayes																				
No 7 Query (as Plain Text)	select c.customer_name, SUM(l.amount) from customer c,borrower b,loan l where c.customer_id = b.customer_id and b.loan_number = l.loan_number group by c.customer_id, c.customer_name having COUNT(*) >= 2;																			
No 7 SS (of Query & Output in Shell)	<pre>1 v select c.customer_name, SUM(l.amount) from customer c,borrower b,loan l 2 where c.customer_id = b.customer_id and b.loan_number = l.loan_number 3 group by c.customer_id, c.customer_name having COUNT(*) >= 2;</pre>	<table><tr><th>customer_name</th><th>SUM(l.amount)</th></tr><tr><td>Smith</td><td>2900</td></tr></table>	customer_name	SUM(l.amount)	Smith	2900														
customer_name	SUM(l.amount)																			
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