**Graded Lab 04(b)**

**Outer Joins**

Use Bank Schema

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| **Task 1** |

Write a query to display the name of all the employees and transaction id of those whose transaction amount was greater than 150000 on Jan-1-2022.

SELECT e.name , t.transaction\_ID

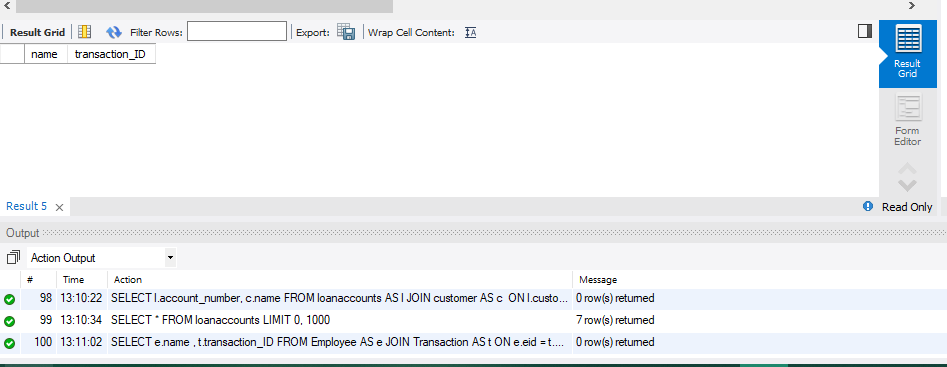
FROM Employee AS e

JOIN Transaction AS t

ON e.eid = t.eid

WHERE t.transaction\_date = '2022-01-01'

AND t.transaction\_amount > 150000;



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| **Task 2** |

Write a query to display list of loan account numbers with names of customer whose current balacnce in loan account is in between 100,000 and 300,000

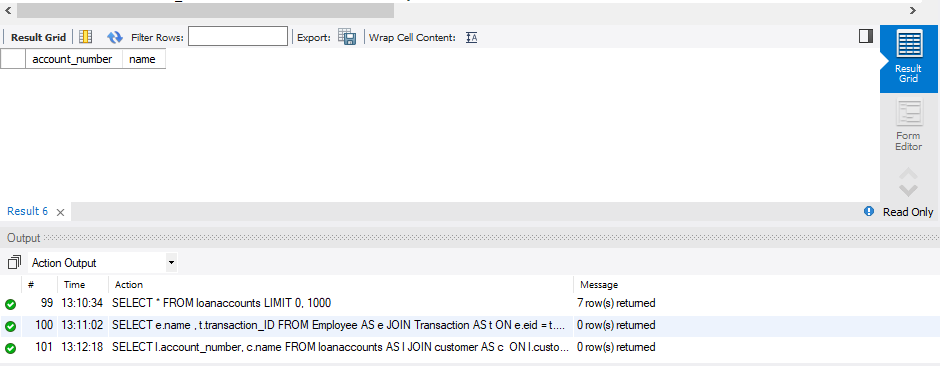
SELECT l.account\_number, c.name

FROM loanaccounts AS l

JOIN customer AS c

ON l.customer\_id = c.customer\_id

WHERE l.current\_credit BETWEEN 100000 AND 300000;



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| **Task 3** |

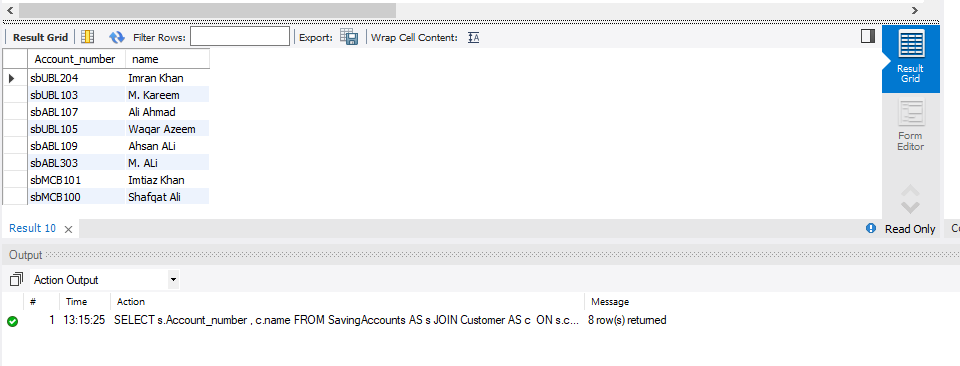
Write a query to display all the saving account number with their owner’s name.

SELECT s.Account\_number , c.name

FROM SavingAccounts AS s

JOIN Customer AS c

ON s.customer\_id = c.customer\_id;



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| **Task 4** |

Write a query to display the all the transaction details with employee name whose transaction are greater than 1500000.

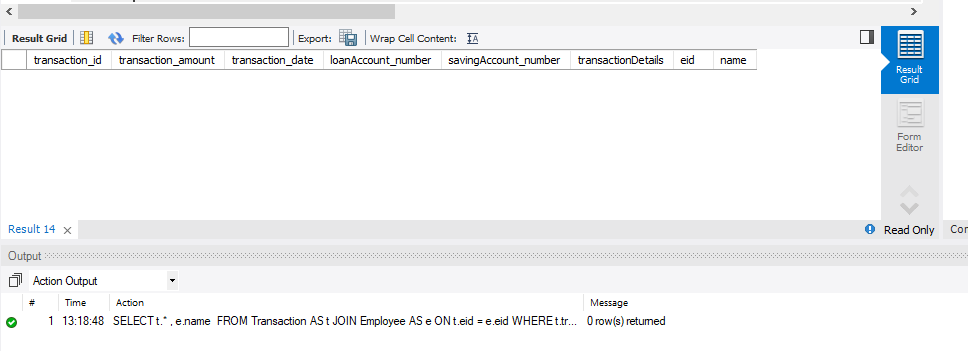
SELECT t.\* , e.name

FROM Transaction AS t

JOIN Employee AS e

ON t.eid = e.eid

WHERE t.transaction\_amount > 1500000;



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| **Task 5** |

Display the name of all the bank with their branches location whose bank name start with ‘I’.

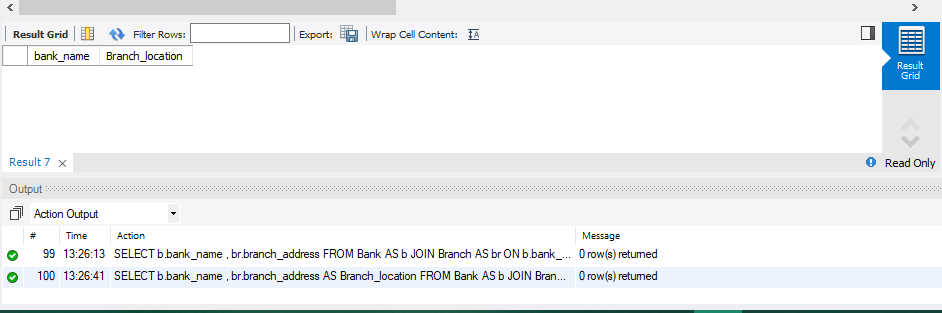
SELECT b.bank\_name , br.branch\_address AS Branch\_location

FROM Bank AS b

JOIN Branch AS br

ON b.bank\_id = br.bank\_id

WHERE b.bank\_name LIKE '%I';



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| **Task 8** |

Write a query to display all the customer name with branch address having same amount (current balance in their account).

SELECT c.name,br.branch\_address

FROM customer AS c

JOIN LoanAccounts AS l

ON c.customer\_id = l.customer\_id

JOIN Branch AS br

ON br.branch\_id = l.branch\_id

JOIN savingAccounts AS s

ON s.customer\_id = c.customer\_id;

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| **Task 9** |

Write a query to display number of employees in same branch of a bank.

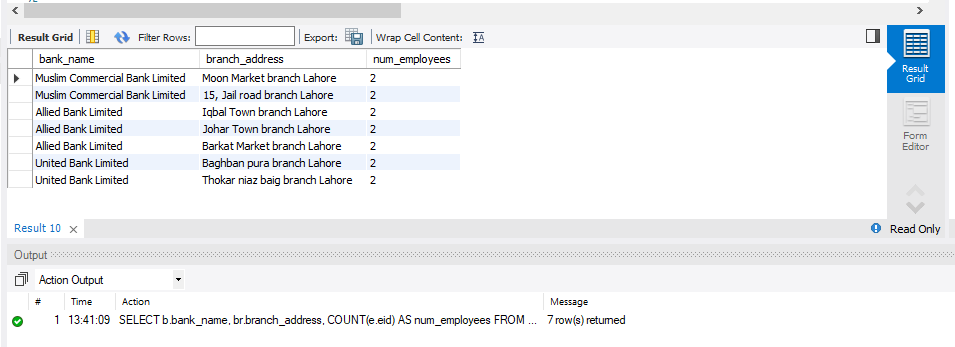
SELECT b.bank\_name, br.branch\_address, COUNT(e.eid) AS num\_employees

FROM bank AS b

JOIN branch br ON b.bank\_id = br.bank\_id

JOIN employee e ON br.branch\_id = e.branch\_id

GROUP BY b.bank\_name, br.branch\_address;



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| **Task 11** |

Write a query to display saving accounts which have transactions, saving accounts which have no transaction, and Transactions which are not from saving accounts.

SELECT sa.Account\_number, COUNT(t.transaction\_id) AS num\_transactions

FROM savingaccounts sa

LEFT JOIN transaction AS t

ON sa.Account\_number = t.savingAccount\_number

GROUP BY sa.Account\_number

HAVING num\_transactions > 0;

SELECT sa.Account\_number

FROM savingaccounts sa

LEFT JOIN transaction AS t

ON sa.Account\_number = t.savingAccount\_number

WHERE t.transaction\_id IS NULL;

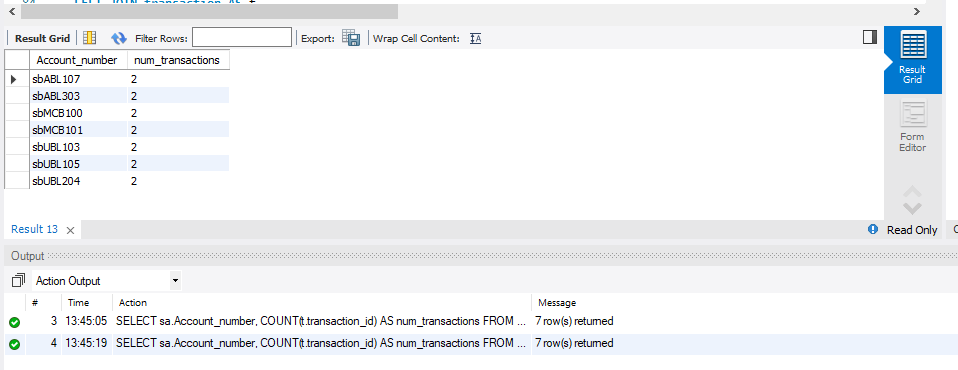
SELECT t.transaction\_id, t.transaction\_amount, t.transaction\_date, t.transactionDetails, t.eid

FROM transaction AS t

LEFT JOIN savingaccounts sa

ON t.savingAccount\_number = sa.Account\_number

WHERE sa.Account\_number IS NULL;



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| **Task 12** |

Write a query to display saving accounts which have no transaction, and Transactions which are not from saving accounts.

SELECT sa.Account\_number

FROM savingaccounts sa

LEFT JOIN transaction AS t ON sa.Account\_number = t.savingAccount\_number

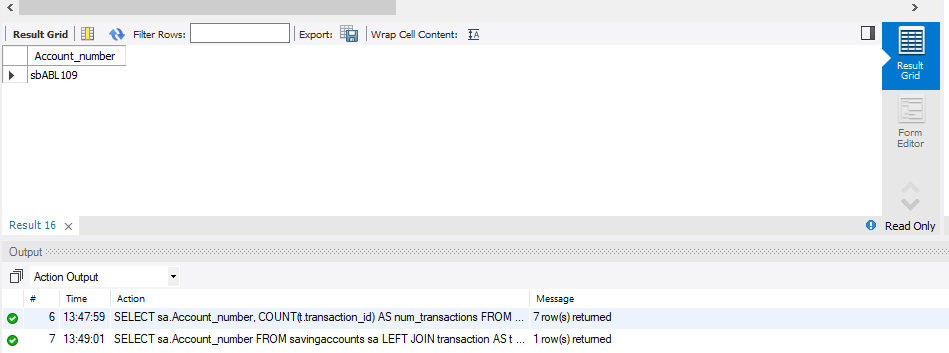
WHERE t.transaction\_id IS NULL;

SELECT t.transaction\_id, t.transaction\_amount, t.transaction\_date, t.transactionDetails, t.eid

FROM transaction AS t

LEFT JOIN savingaccounts sa ON t.savingAccount\_number = sa.Account\_number

WHERE sa.Account\_number IS NULL;



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| **Task 13** |

Write a query to display a list of all the customers and all the loan accounts( Without using inner join).

SELECT \*

FROM customer, loanaccounts;

