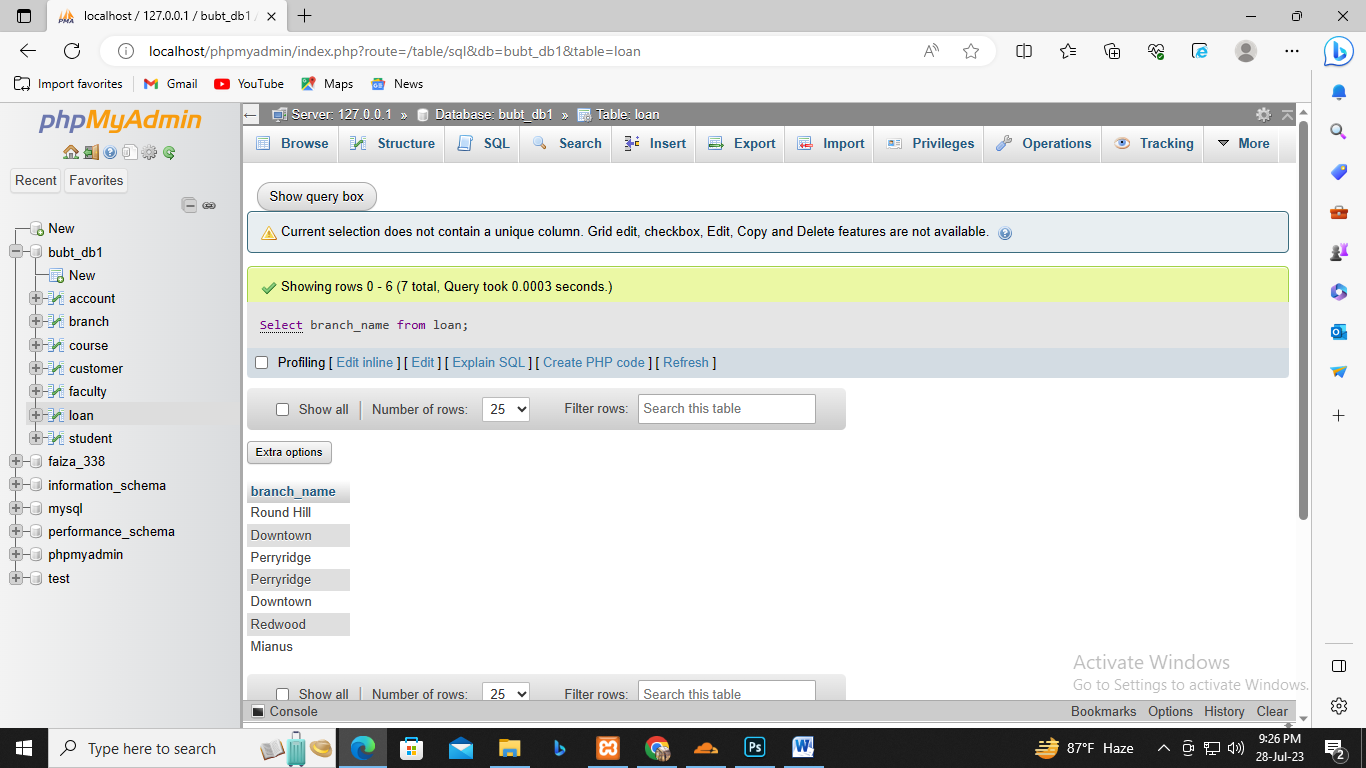
**Lab-02**

Q1. Find the names of all branches in the “loan” relation.

Query:

Select branch\_name from loan;

Output:



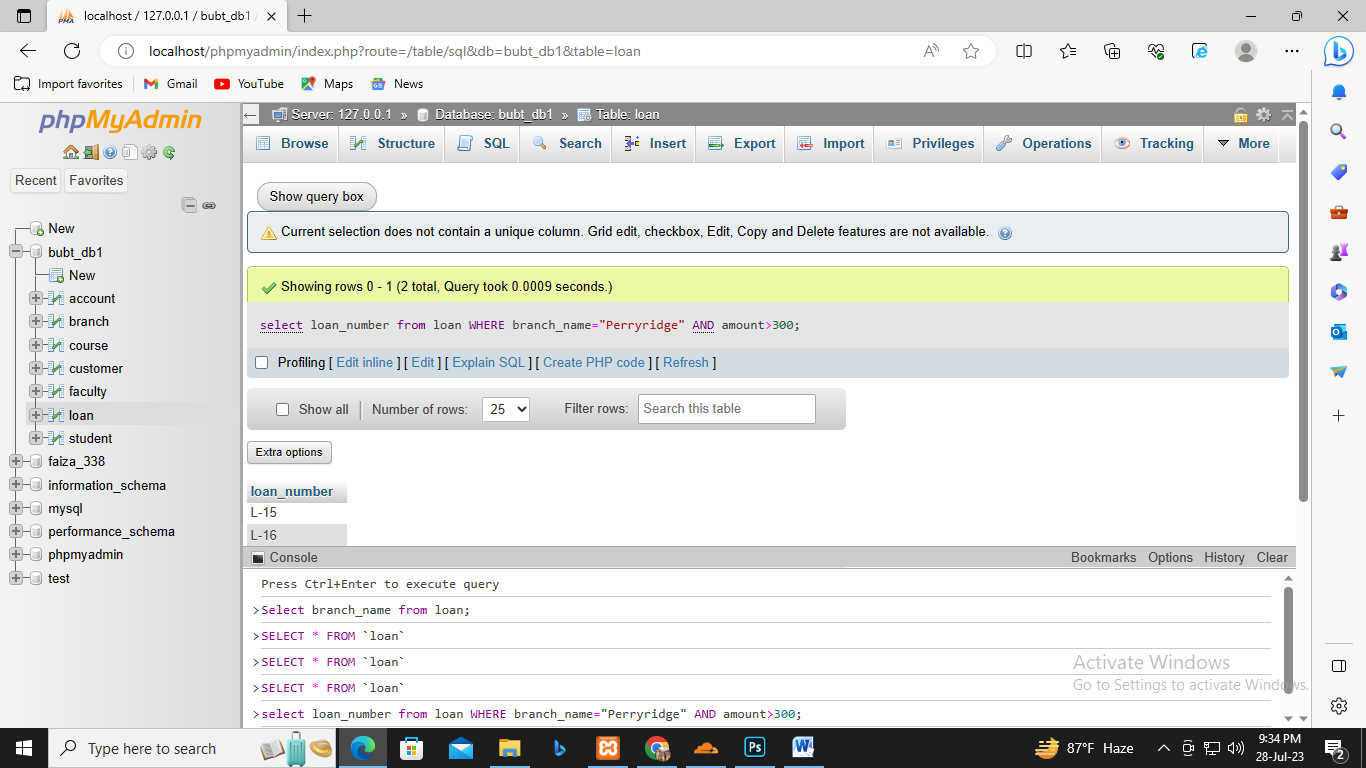
Q2. Find all loan numbers for loans made at the “Perryridge” branch with loan amounts greater

than 300.

Query:

select loan\_number from loan WHERE branch\_name="Perryridge" AND amount>300;

output:



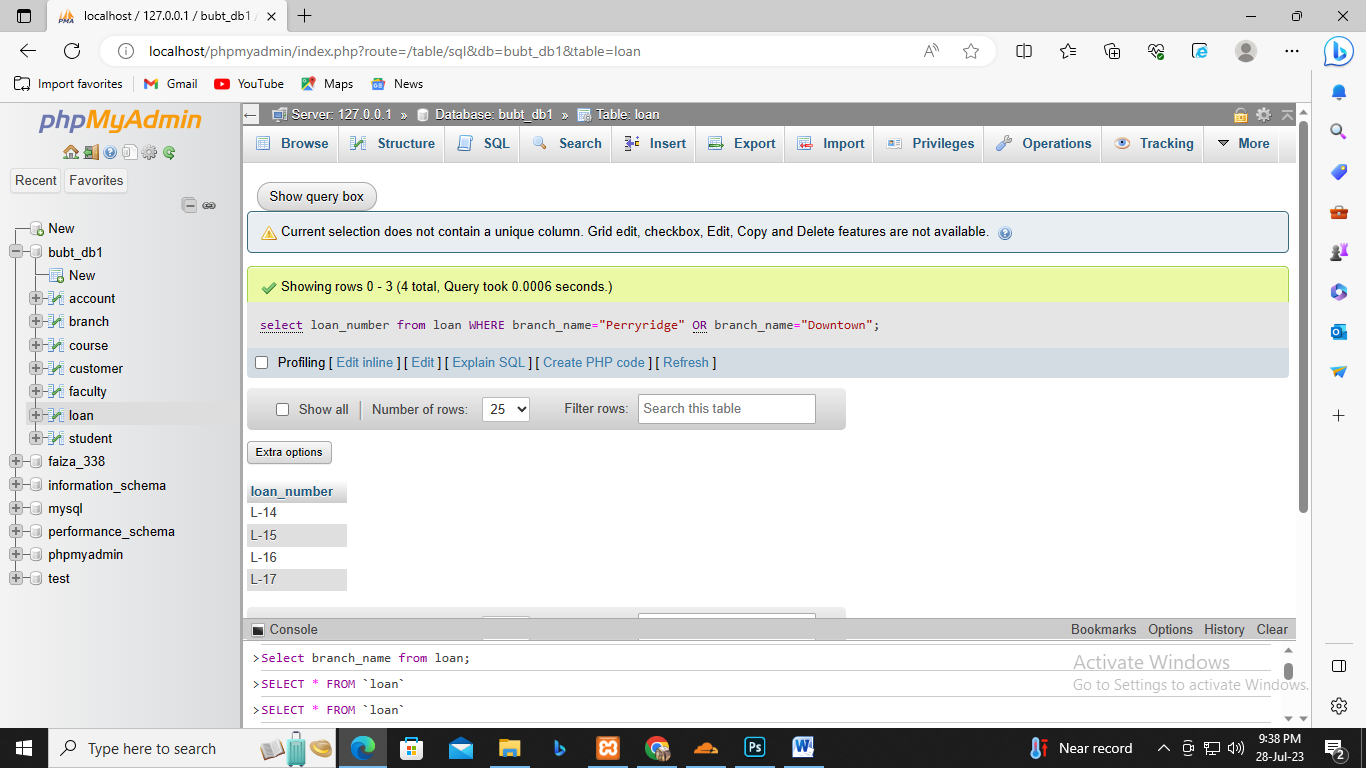
Q3. Find all the loan numbers of the customers who has loan either “Perryridge” branch or

“Downtown” branch.

Query:

select loan\_number from loan WHERE branch\_name="Perryridge" OR branch\_name="Downtown";

Output:



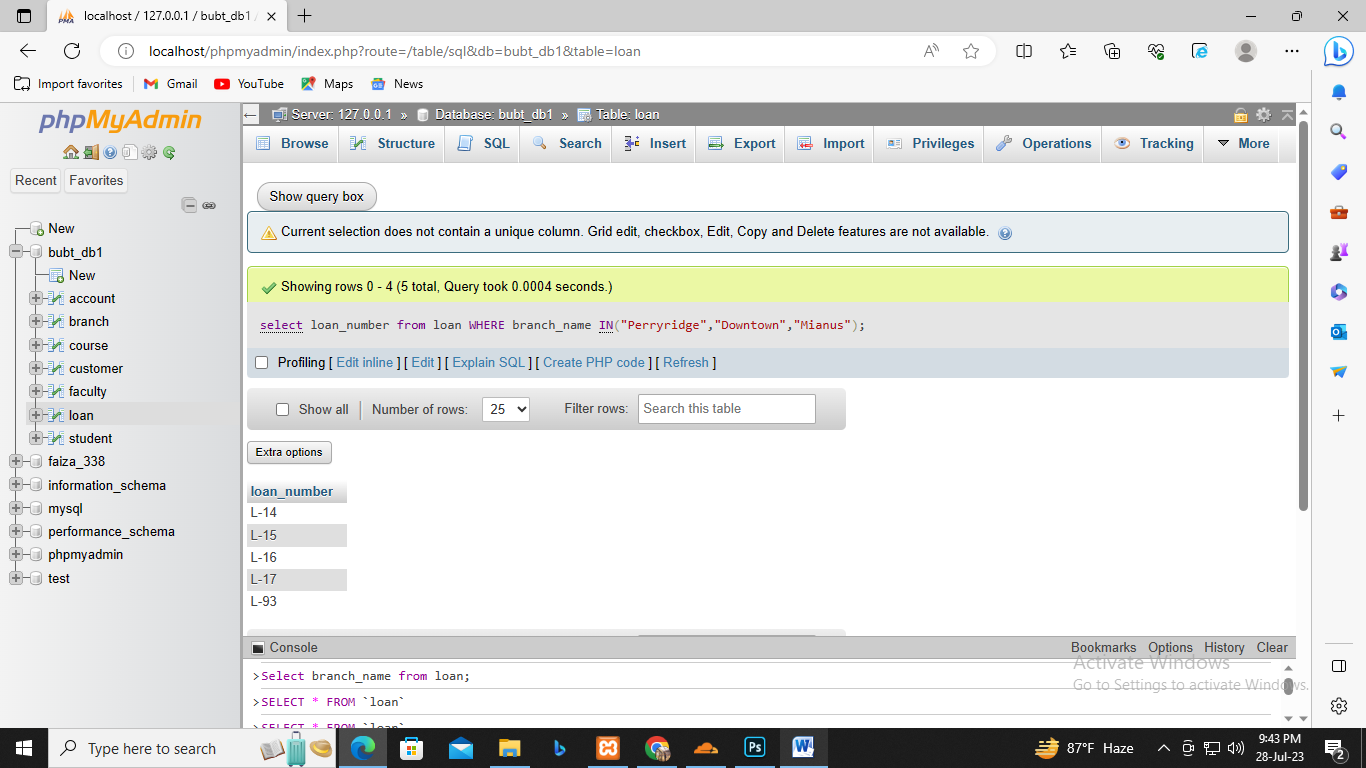
Q4. Find all the loan numbers of the customers who has loan either “Perryridge” branch or

“Downtown” branch or “Mianus” branch.

Query:

select loan\_number from loan WHERE branch\_name IN("Perryridge","Downtown","Mianus");

Output:



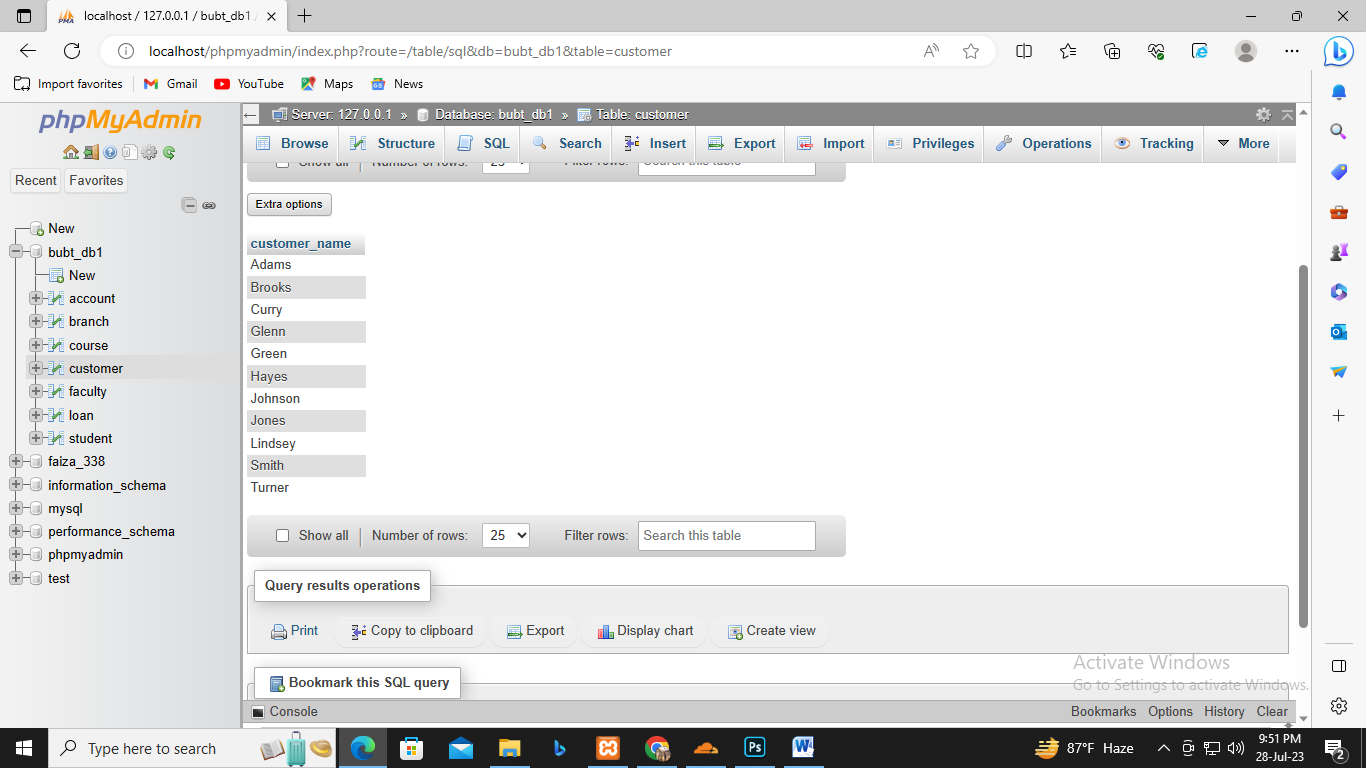
Q5. Find the names of all customers who are not from “Stamford” or “Princeton” or ”Harrison”

City.

Query:

select customer\_name from customer WHERE customer\_city NOT IN("Princeton");

Output:

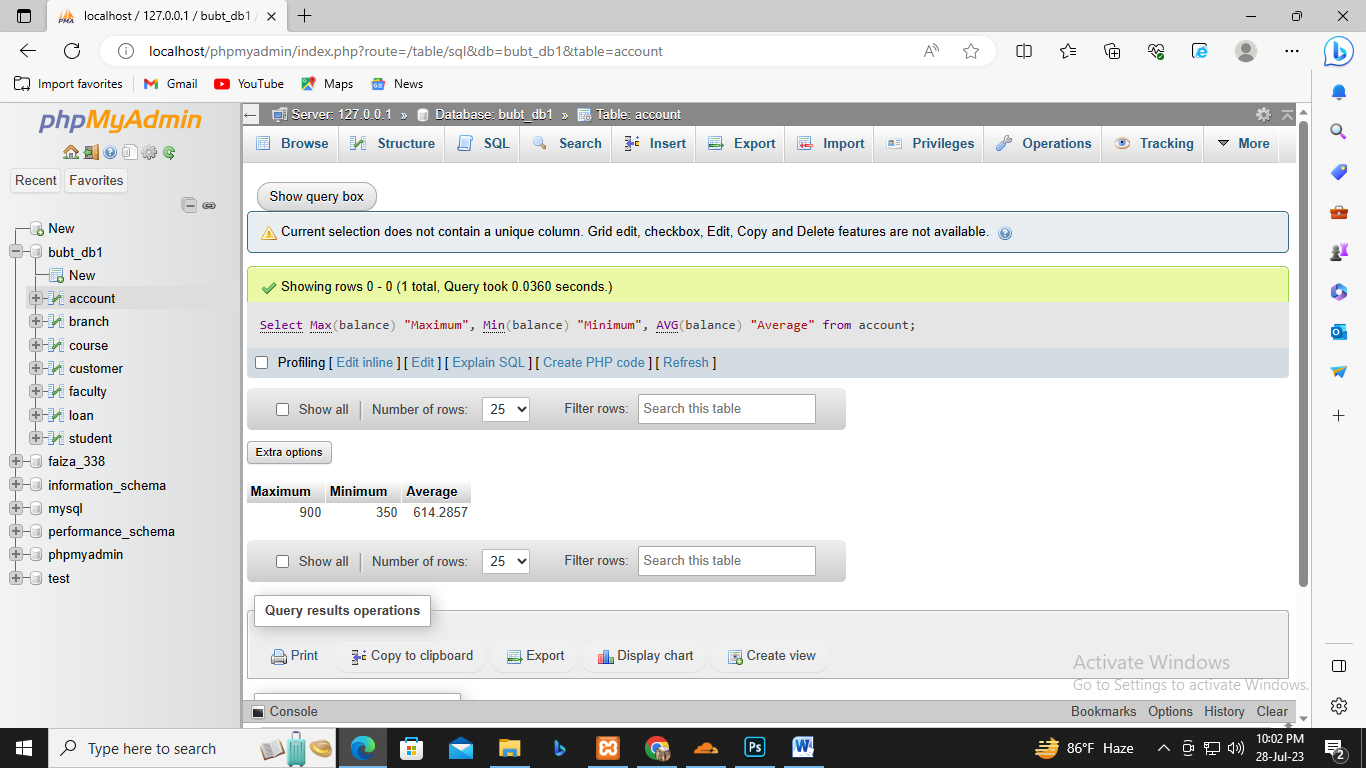


Q6. Find the largest , minimum and average account balance in the “Account” relation.

Query:

Select Max(balance) "Maximum", Min(balance) "Minimum", AVG(balance) "Average" from account;

Output:

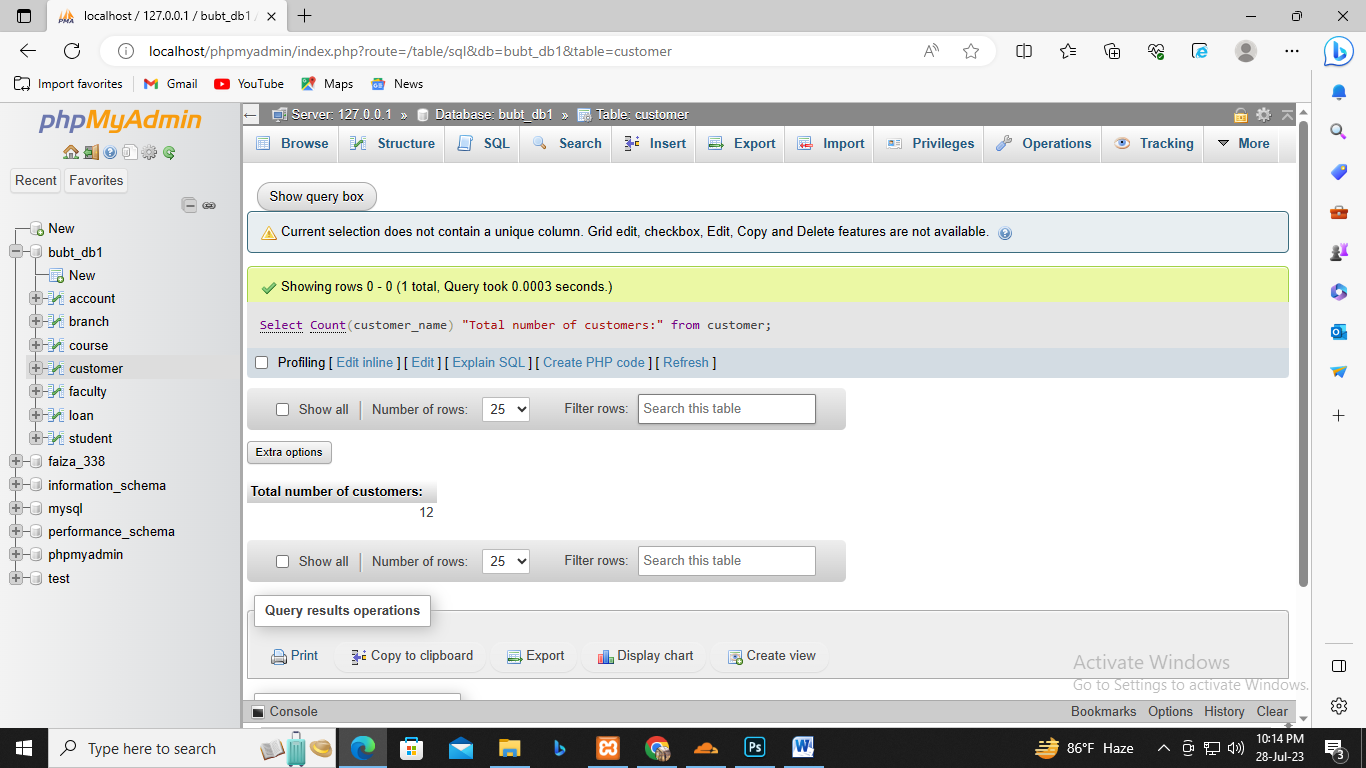


Q7. Find the total number of customer from “Customer” relation.

Query:

Select Count(customer\_name) "Total number of customers:" from customer;

Output:



Q8. Find the loan number of those loans with loan amounts between 400 and 800.

Query:

select loan\_number from loan WHERE amount BETWEEN 400 AND 800;

Output:



Q9. Find the names of all customers whose name start with ”G”.

Query:

Select customer\_name from customer where customer\_name like 'G%';

Output:

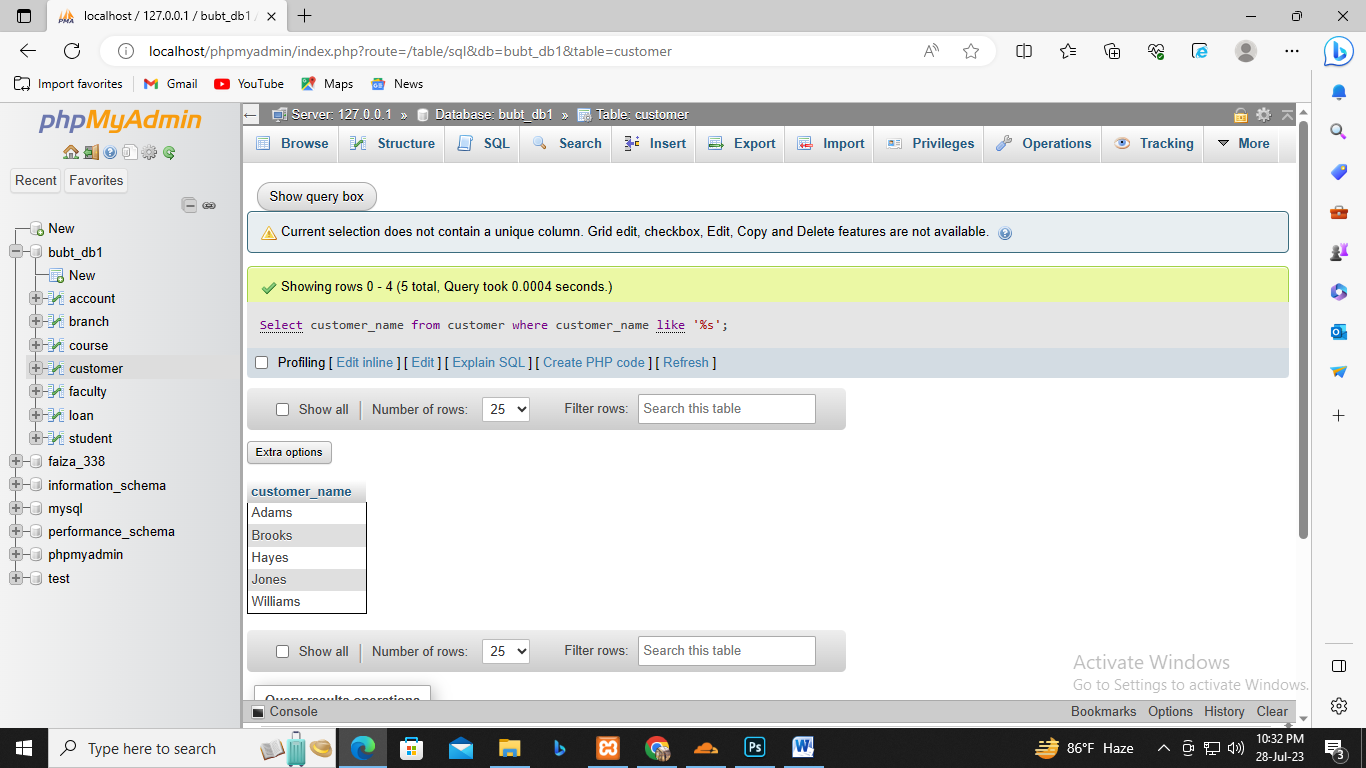


Q10. Find the names of all customers whose name ends with ”s”.

Query:

Select customer\_name from customer where customer\_name like '%s';

Output:

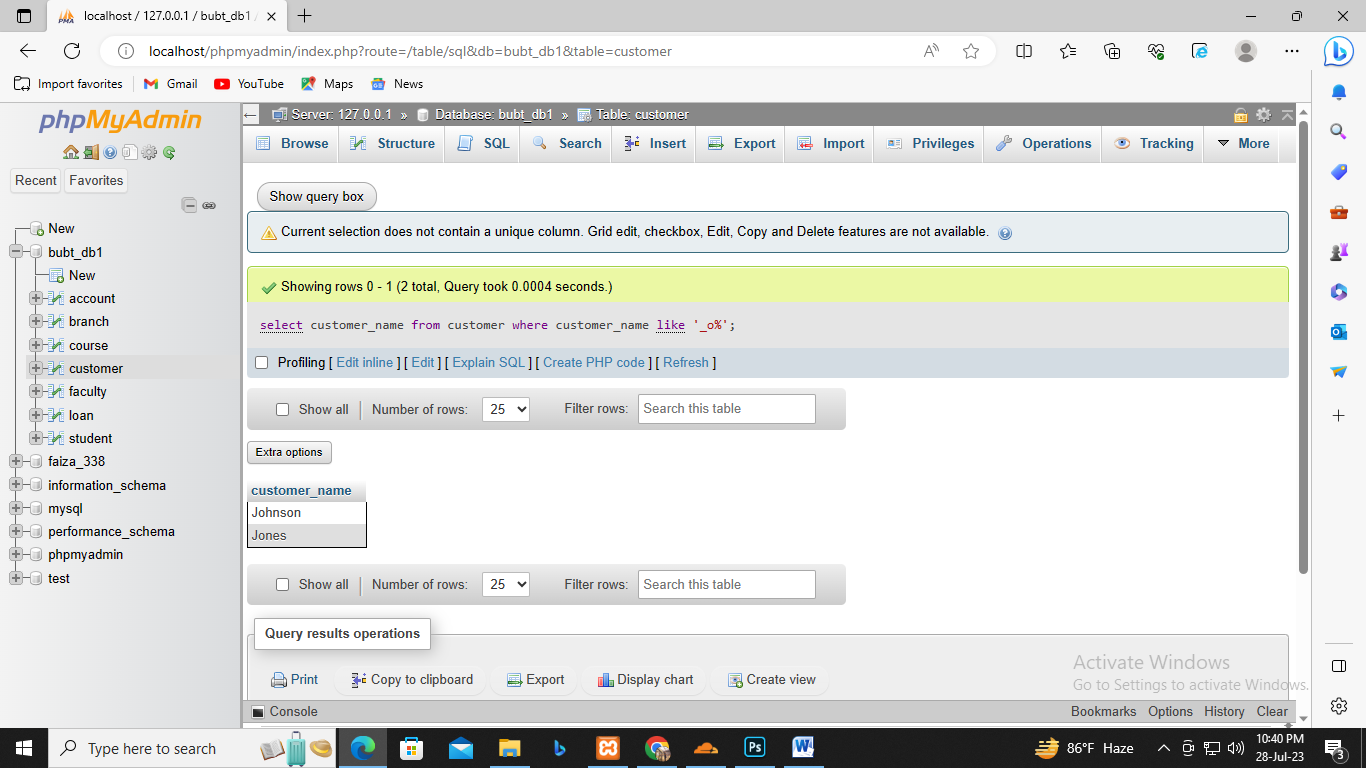


Q11. Find the names of all customers whose name has a “o” in 2 nd position.

Query:

select customer\_name from customer where customer\_name like '\_o%';

Output:



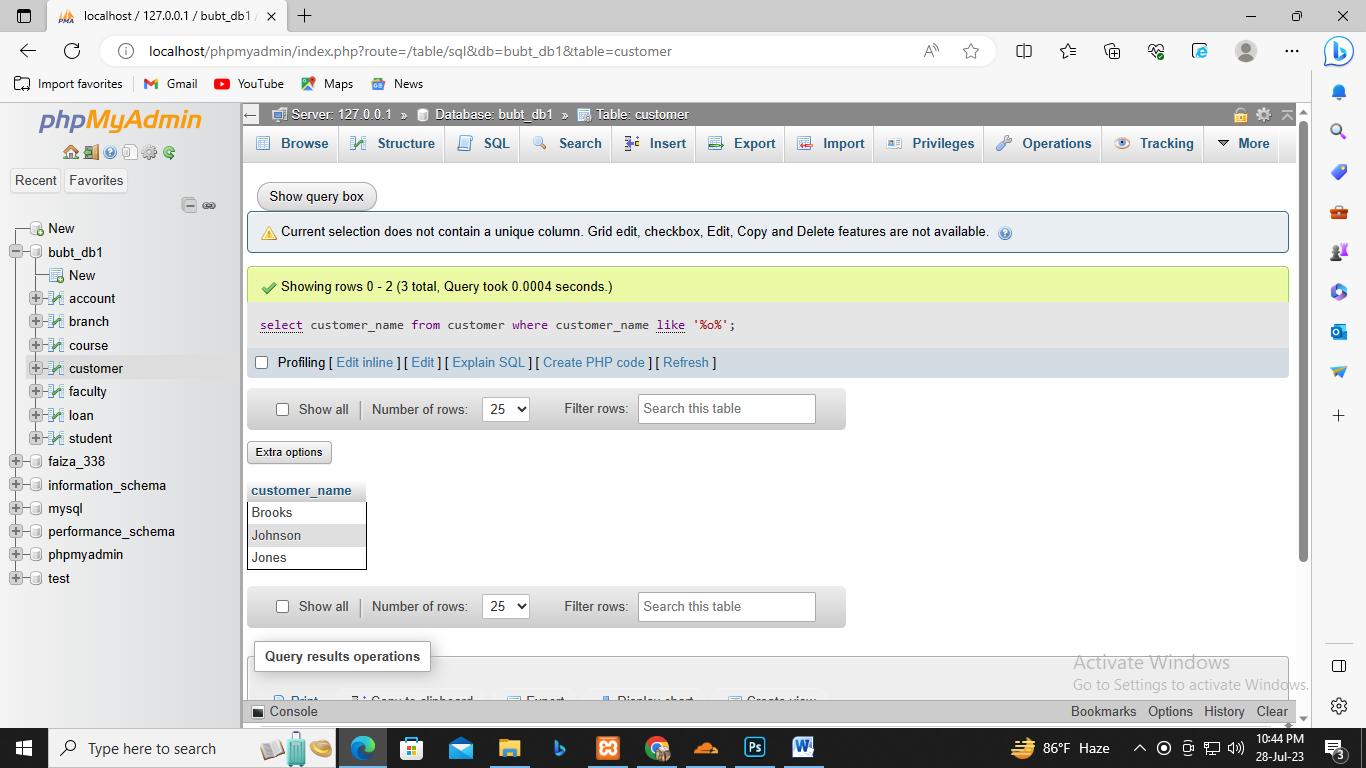
Q12. Find the names of all customers whose name has a “o” in any position except 1 st and last

letter.

Query:

Select customer\_name from customer where customer\_name like '%o%';

Output:

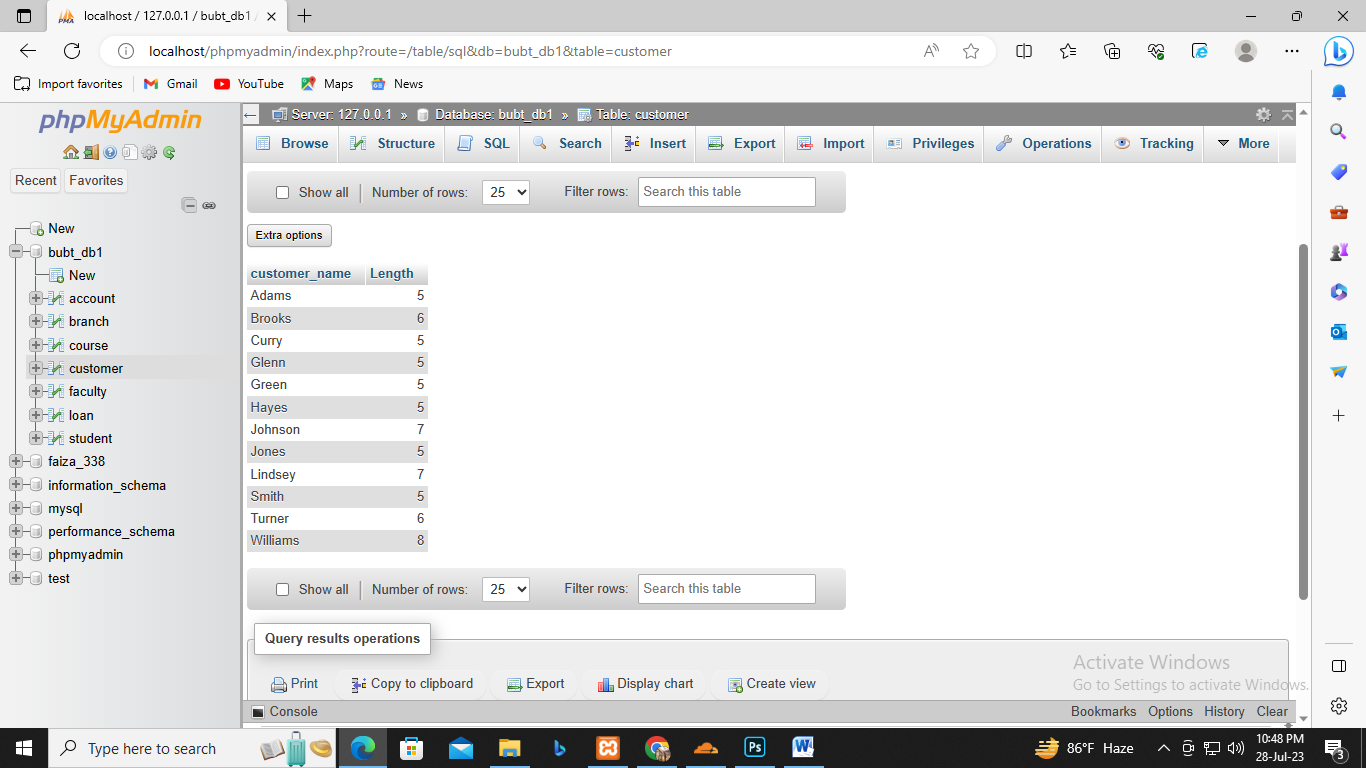


Q13. Find the length of the name of all customers from “Customer” relation.

Query:

Select customer\_name, Length(customer\_name) "Length" from customer;

Output:

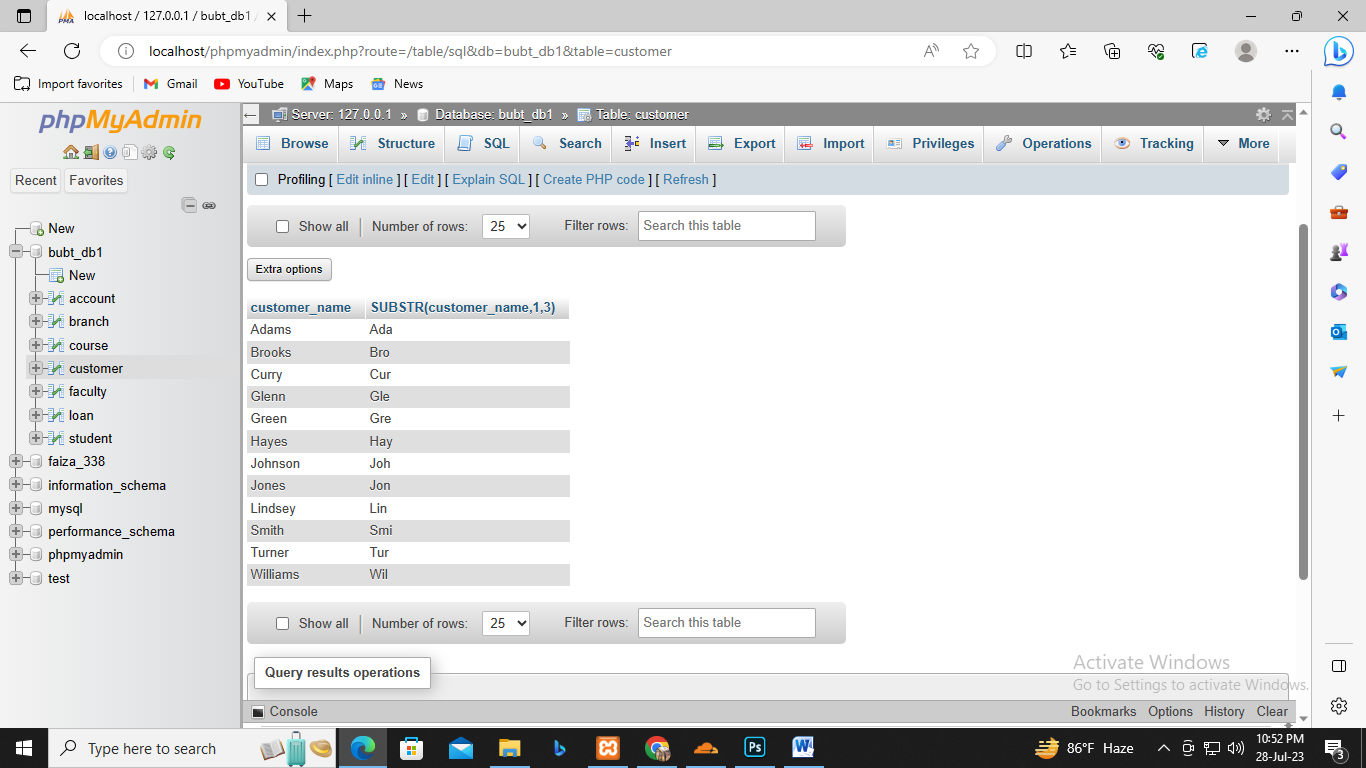


Q14. Find 1st three characters of each customer name from “customer” relation.

Query:

Select customer\_name, SUBSTR(customer\_name,1,3) from customer;

Output:

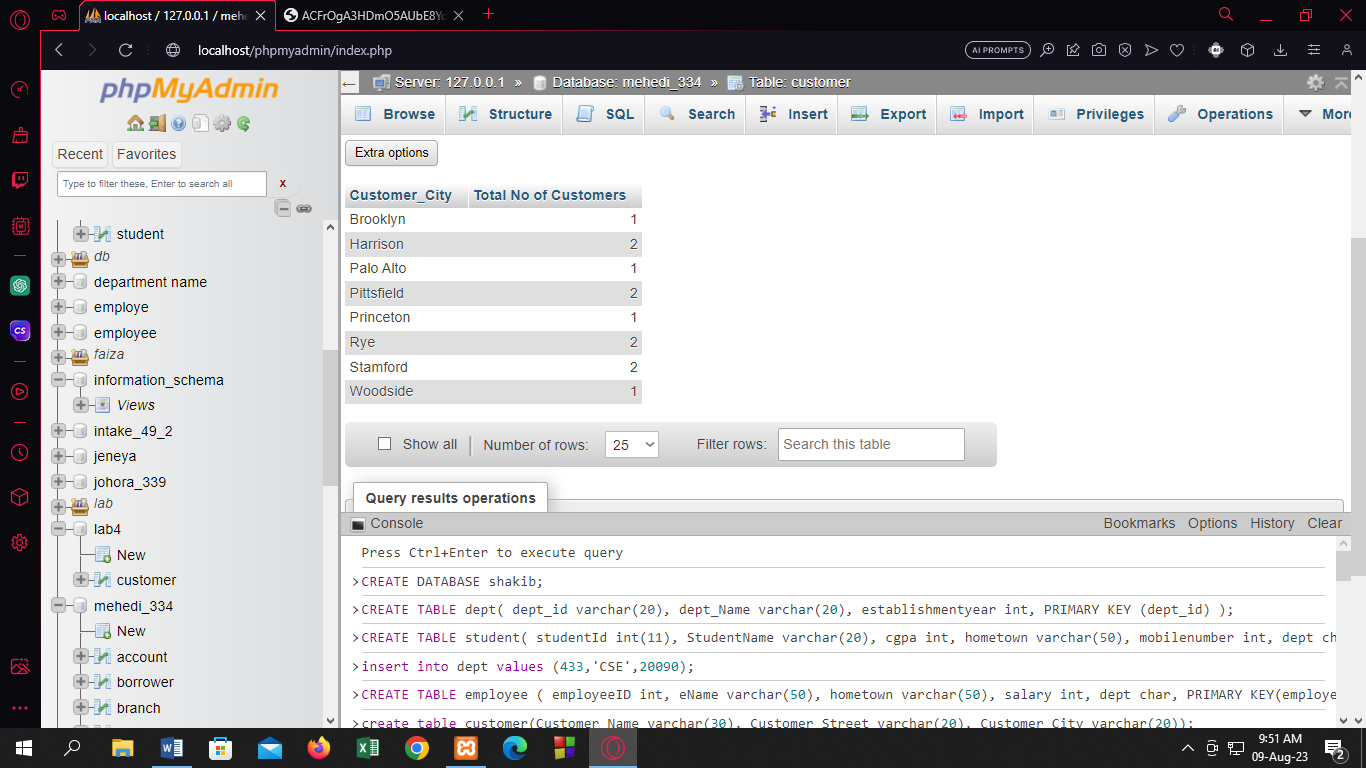


**Lab-03**

Q1. Find the number of customers from all cities in

“Customer” relation.

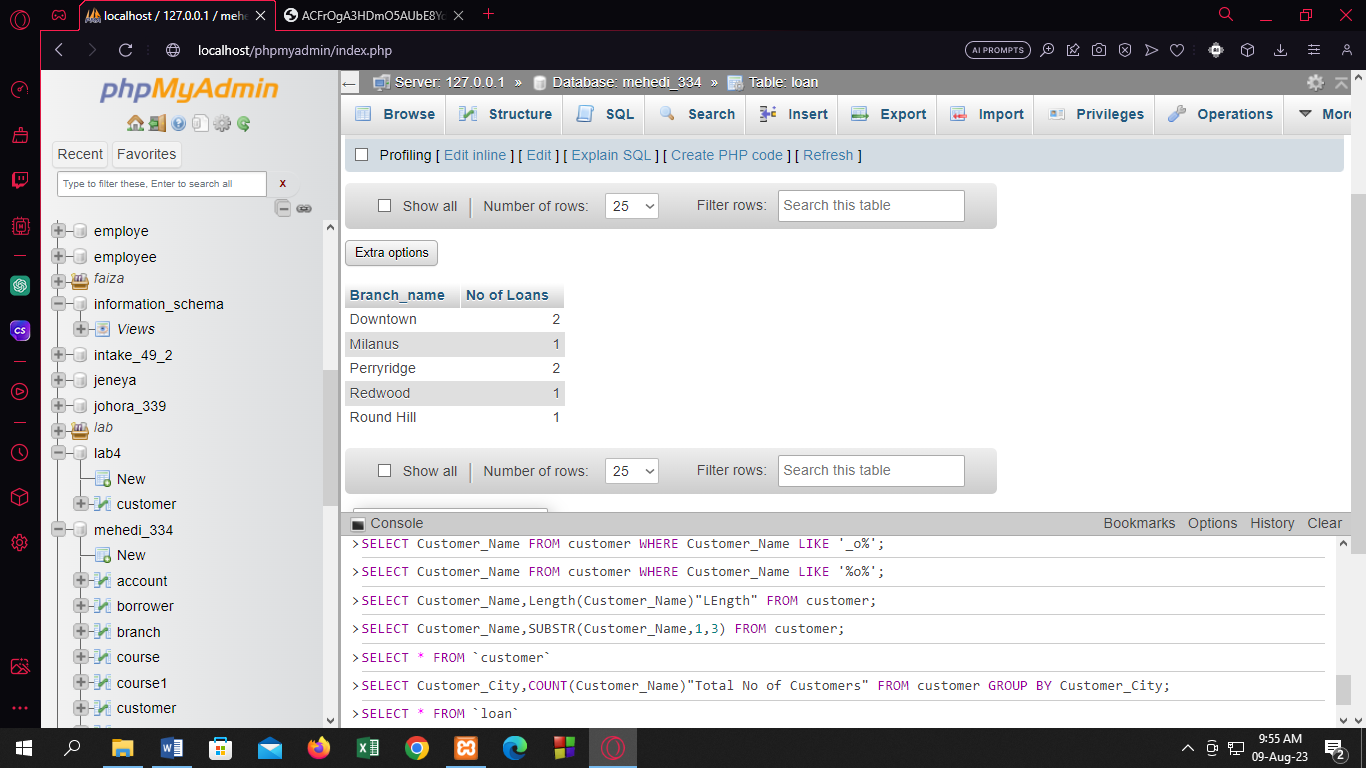
[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Customer\_City,[COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(Customer\_Name)"Total No of Customers" FROM customer GROUP BY Customer\_City;



Q2.Find the total no. of loans from “Loan” relation from

each branch.

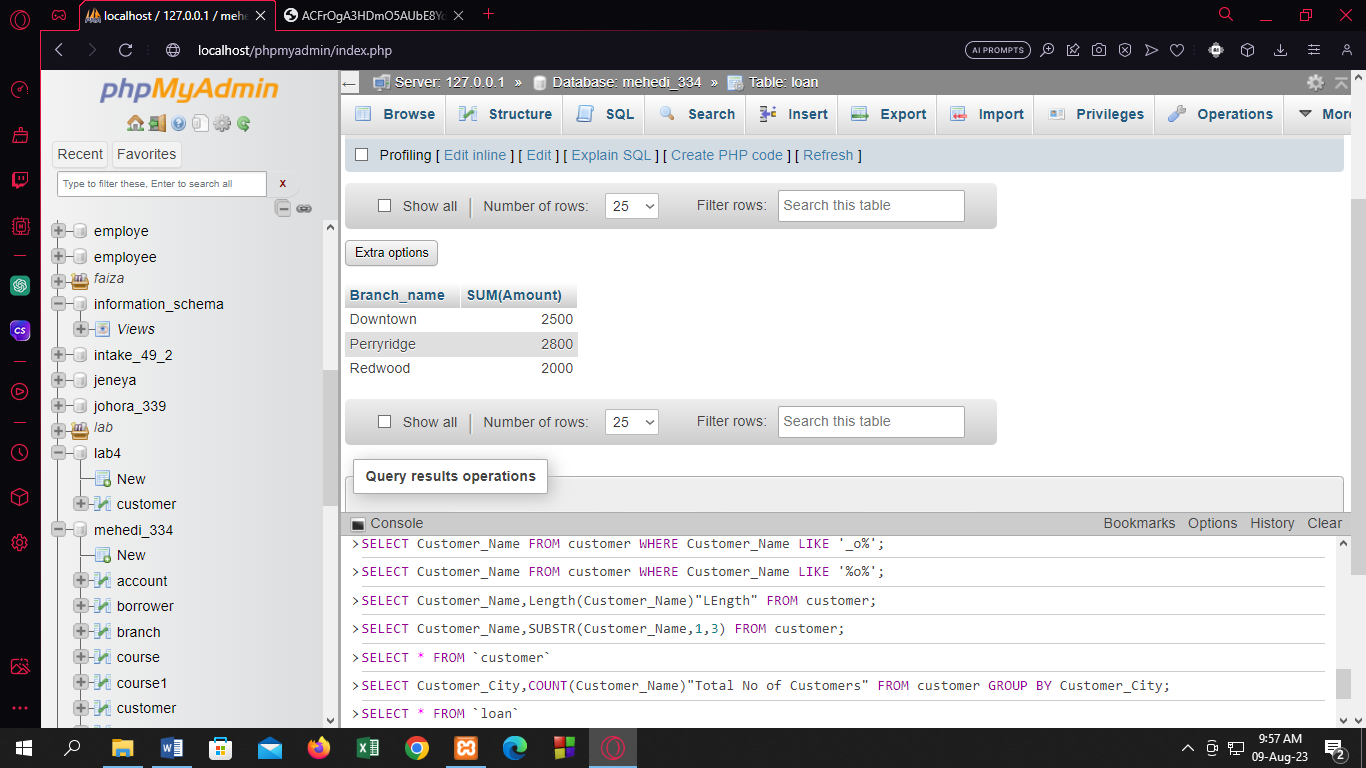
[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Branch\_name,[COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(Loan\_number)"No of Loans" FROM loan GROUP BY Branch\_name;



Q3. Find the total amount of loan from “Loan” relation of

each branch which amount is greater than 1200.

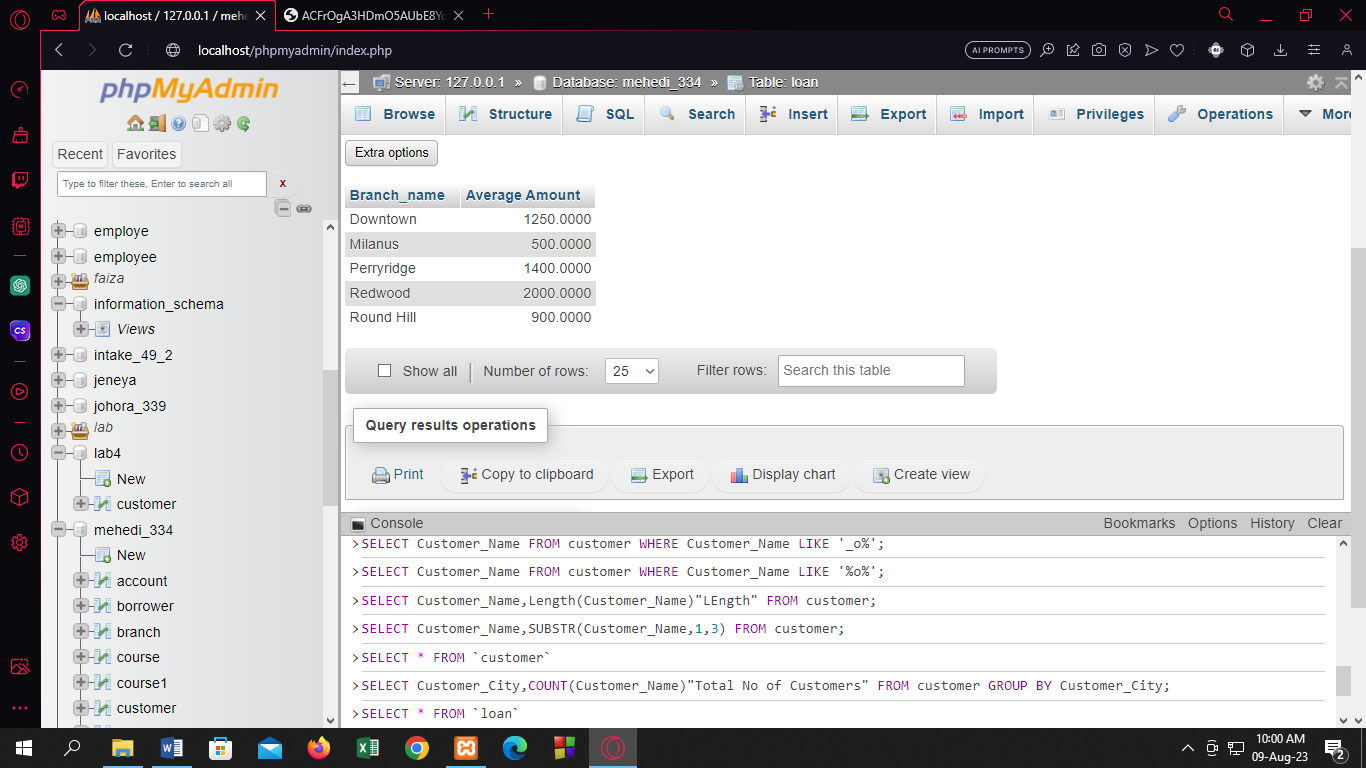
[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Branch\_name,[SUM](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_sum)(Amount) FROM loan GROUP BY Branch\_name HAVING [SUM](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_sum)(Amount)>1200;



Q4. Find the average amount from each branch of “loan”

relation.

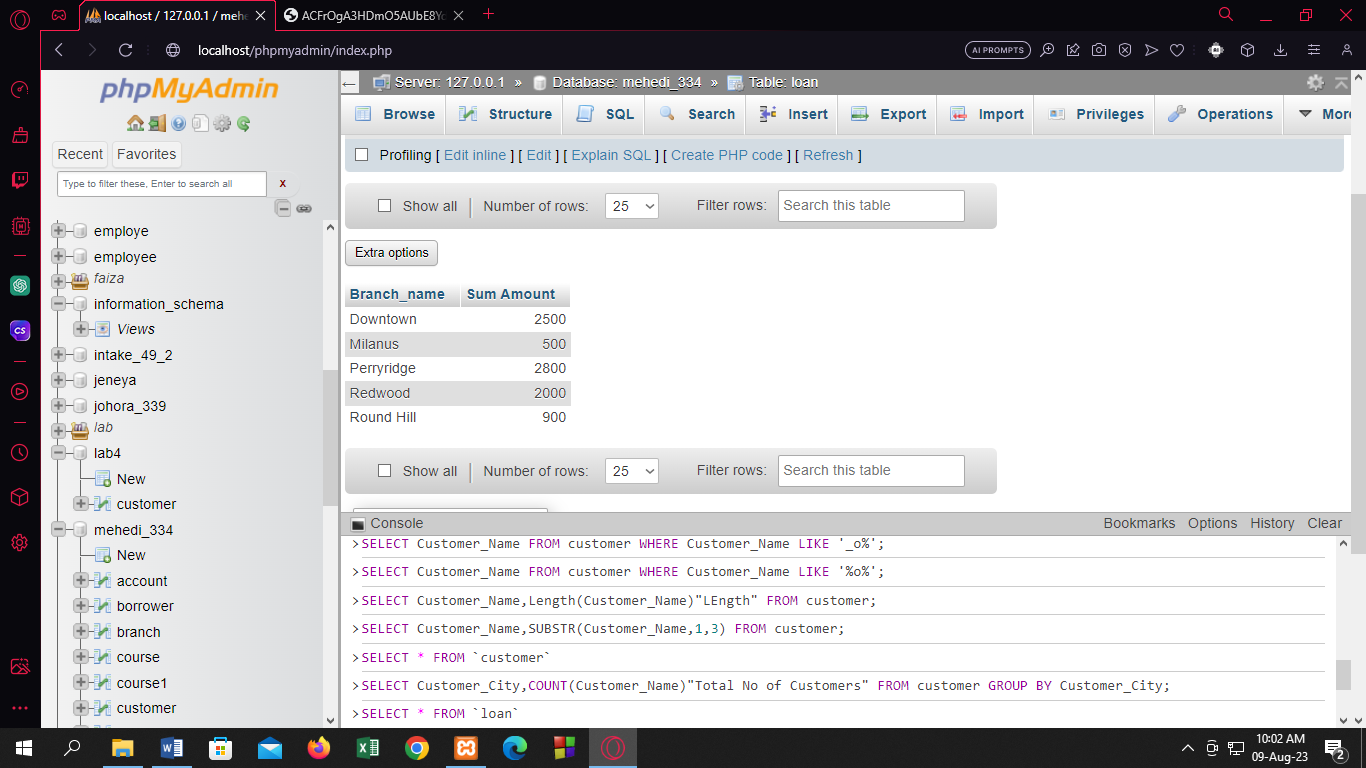
[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Branch\_name,[AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_avg)(Amount) "Average Amount" FROM loan GROUP BY Branch\_name;



Q5. Find the total amount of each branch from “loan”

relation.

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Branch\_name,[SUM](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_sum)(Amount) "Sum Amount" FROM loan GROUP BY Branch\_name;



Q6. Find the total number of tuples for loan and

account relation.

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(\*) FROM loan;

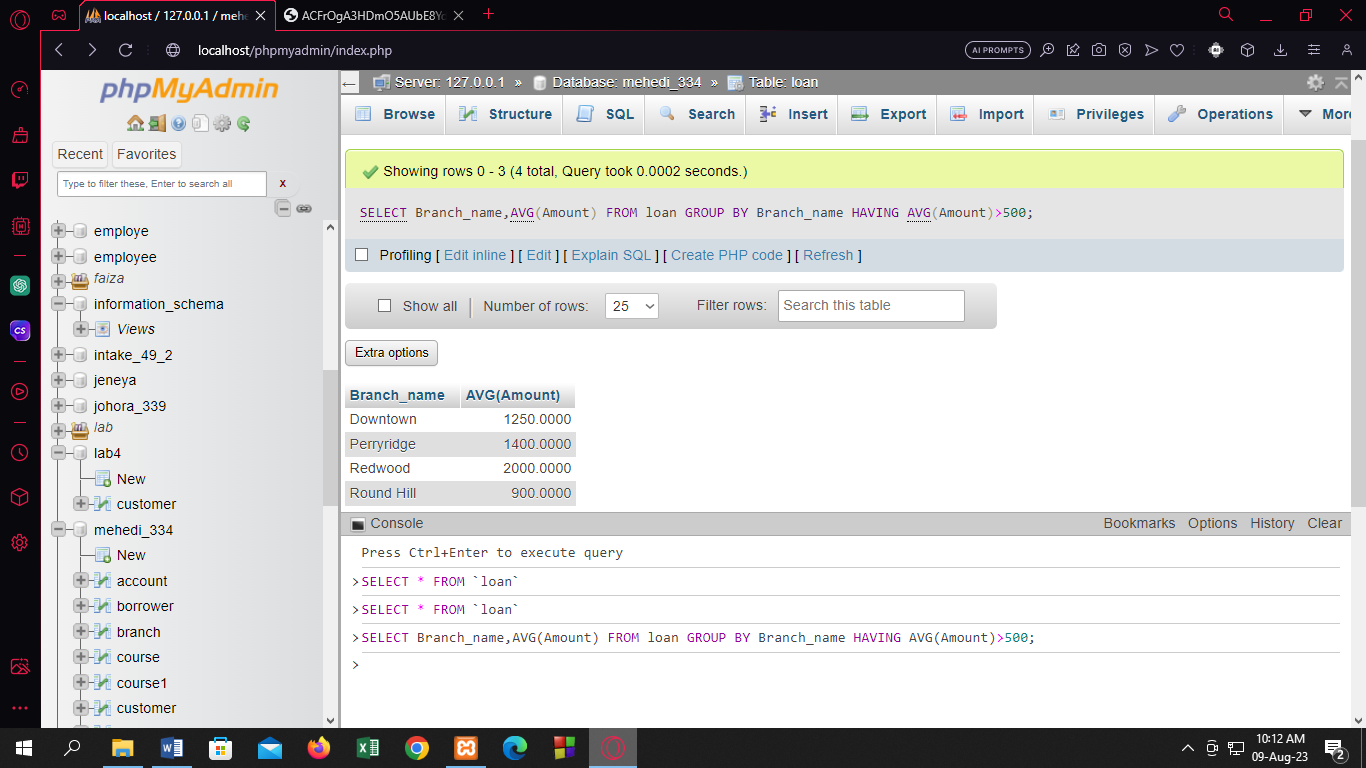


[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) [COUNT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(\*) FROM account;

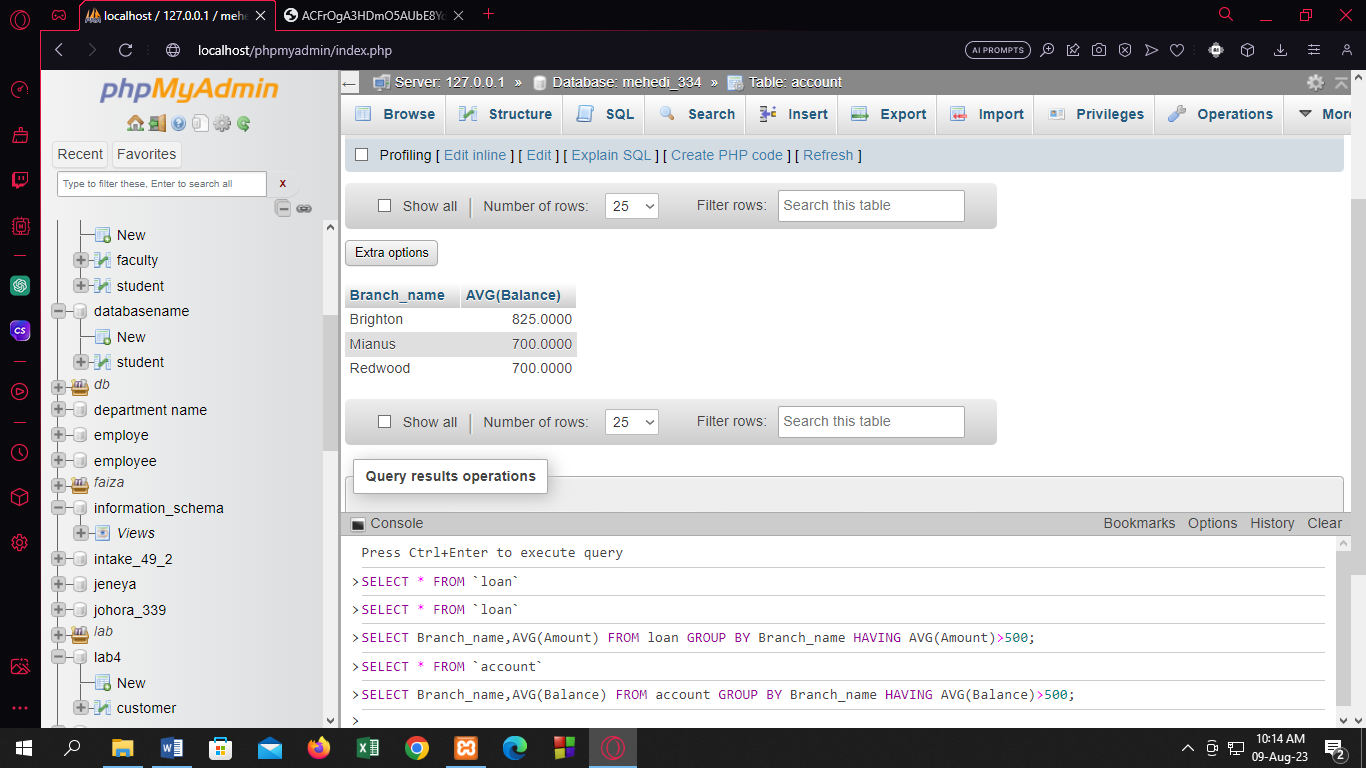
Q7. Find the average account balance of each branch whose

average account balance is greater than 500.

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Branch\_name,[AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_avg)(Amount) FROM loan GROUP BY Branch\_name HAVING [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_avg)(Amount)>500;



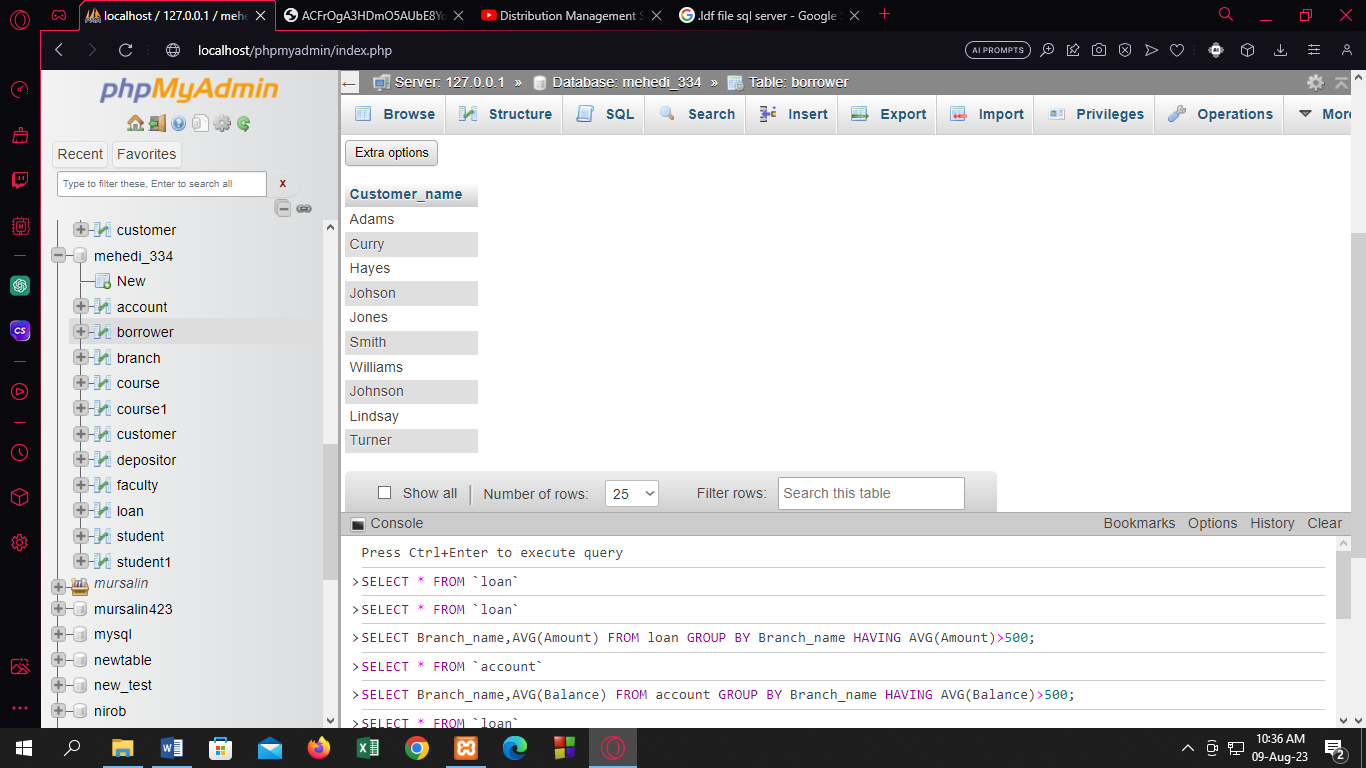
[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Branch\_name,[AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_avg)(Balance) FROM account GROUP BY Branch\_name HAVING [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_avg)(Balance)>500;



Q8. Find the name of all those customers who has either a

loan or an account or both.

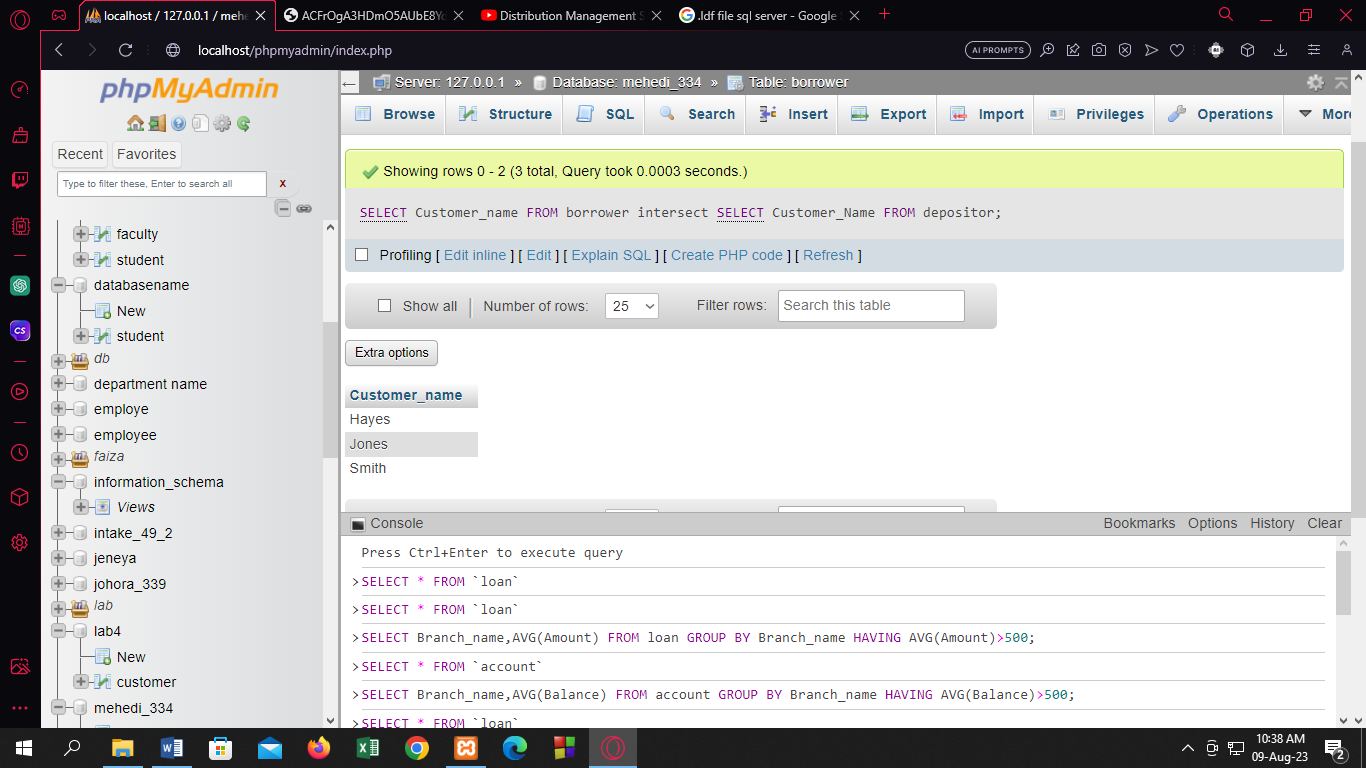
[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Customer\_name FROM borrower UNION [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Customer\_Name FROM depositor;



Q9. Find the name of all those customers who has both a

loan and an account.

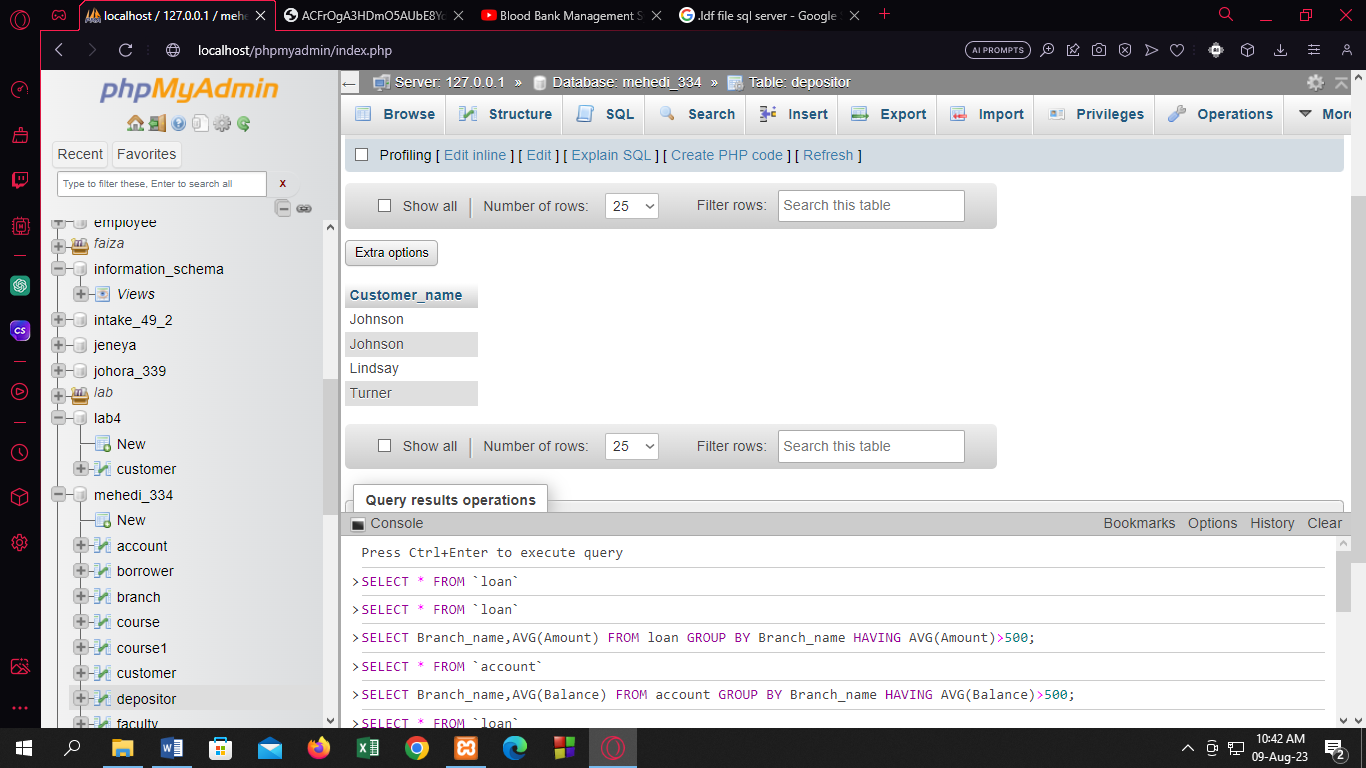
[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Customer\_name FROM borrower intersect [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Customer\_Name FROM depositor;



Q10. Find the name of all those customers who has only

an account but not any loan.

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Customer\_name FROM depositor WHERE Customer\_Name [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23function_in)( [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) Customer\_Name FROM borrower);



Q11: Change the column name from “branch\_city” of

branch relation to “city”.

[ALTER](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/alter-table.html) branch CHANGE COLUMN Branch\_city city varchar(30);

