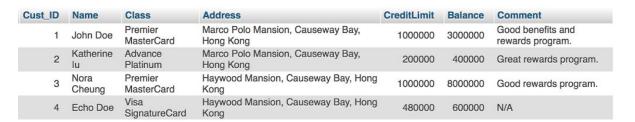
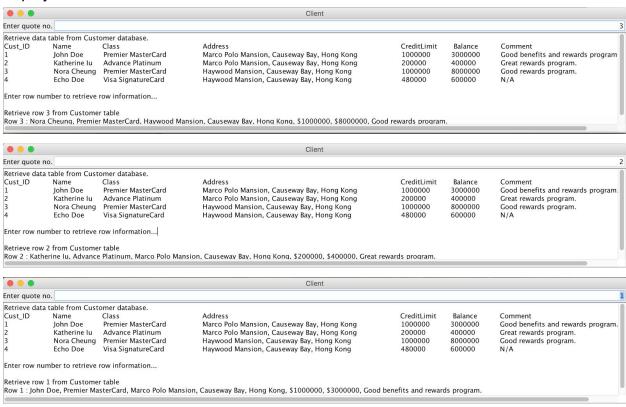
## **Project Description**

A multi-threaded Socket server program is created that provide connection to a Customer Database stored on MYSQL database server through the use of JDBC (Java Database Connectivity) to allow multiple client sockets (users) to access and retrieve information. The Customer Database contain a Customer Table with Customer Data.



Another Socket program is created to allow the creation of multiple users to establish connection to the server socket. Then users can retrieve the entire Customer data table and the desire row information base on customer id from the socket. The Customer data table will be provided to each user after successful connection to the server socket, then users can input the row number to retrieve the desire customer information from the table in a GUI designed window. The result will be retrieved through the server socket across the network which connects to the Customer Database. The content retrieved will be displayed on the text area in the users window.



The Server window will also display the process which multiple users connects to it to accessed the Customer database and retrieved the necessary customer's information.

● ● MultiThreadServer						
MultiThreadServer started at Sun Jan 07 01:02:55 HKT 2018						
Starting thread for client 1 at Sun Jan 07 01:02:56 HKT 2018 Client 1's host name is localhost Client 1's IP Address is 127.0.0.1						
Retrieve data Cust_ID 1 2 3 4	Name John Doe Katherine Iu	omer database for client 1 Class Premier MasterCard Advance Platinum Premier MasterCard Visa SignatureCard	Address Marco Polo Mansion, Causeway Bay, Hong Kong Marco Polo Mansion, Causeway Bay, Hong Kong Haywood Mansion, Causeway Bay, Hong Kong Haywood Mansion, Causeway Bay, Hong Kong	CreditLimit 1000000 200000 1000000 480000	Balance 3000000 400000 8000000 600000	Comment Good benefits and rewards program. Great rewards program. Good rewards program. N/A
Row data requested from client 1 is Row 1 Row 1 : John Doe, Premier MasterCard, Marco Polo Mansion, Causeway Bay, Hong Kong, \$1000000, \$3000000, Good benefits and rewards program.						
Starting thread for client 2 at Sun Jan 07 01:03:05 HKT 2018 Client 2's host name is localhost Client 2's IP Address is 127.0.0.1						
Retrieve data Cust_ID 1 2 3 4	Name John Doe Katherine Iu	omer database for client 2 Class Premier MasterCard Advance Platinum Premier MasterCard Visa SignatureCard	Address Marco Polo Mansion, Causeway Bay, Hong Kong Marco Polo Mansion, Causeway Bay, Hong Kong Haywood Mansion, Causeway Bay, Hong Kong Haywood Mansion, Causeway Bay, Hong Kong	CreditLimit 1000000 200000 1000000 480000	Balance 3000000 400000 8000000 600000	Comment Good benefits and rewards program. Great rewards program. Good rewards program. N/A
Row data requested from client 2 is Row 2 Row 2 : Katherine Iu, Advance Platinum, Marco Polo Mansion, Causeway Bay, Hong Kong, \$200000, \$400000, Great rewards program.						
Starting thread for client 3 at Sun Jan 07 01:03:13 HKT 2018 Client 3's host name is localhost Client 3's IP Address is 127.0.0.1						
Retrieve data Cust_ID 1 2 3 4	Name John Doe Katherine Iu	omer database for client 3 Class Premier MasterCard Advance Platinum Premier MasterCard Visa SignatureCard	Address Marco Polo Mansion, Causeway Bay, Hong Kong Marco Polo Mansion, Causeway Bay, Hong Kong Haywood Mansion, Causeway Bay, Hong Kong Haywood Mansion, Causeway Bay, Hong Kong	CreditLimit 1000000 200000 1000000 480000	Balance 3000000 400000 8000000 600000	Comment Good benefits and rewards program. Great rewards program. Good rewards program. N/A
Row data requested from client 3 is Row 3  Row 3 · Nora Cheung Premier MasterCard, Havayood Mansion, Causeway Ray, Hong Kong, \$1000000, \$8000000, Good rewards program						