PROJECT REPORT

Submitted for:

DATABASE MANAGEMENT SYSTEM (UCS310)

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TOPIC: VIRTUAL TRADING PLATFORM

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ABSTRACT

Development and Implementation of a Virtual Trading Platform using MySQL and Python

The abstract of this report encapsulates the development and implementation of a virtual trading platform leveraging MySQL and Python. In an increasingly digitalized world, virtual trading platforms offer individuals a risk-free environment to hone their investment skills, test strategies, and explore financial markets. This report outlines the architectural design, functionality, and implementation details of the virtual trading platform.

The platform's foundation rests upon the integration of MySQL, a robust relational database management system, and Python, a versatile programming language renowned for its simplicity and efficiency. MySQL serves as the backbone for storing and managing crucial data such as user information, stock market data, transaction history, and portfolio details.

Throughout the development process, emphasis was placed on scalability, security, and user experience. MySQL's scalability features ensure the platform can accommodate a growing user base and increasing volumes of data. Security measures, including encryption protocols and secure authentication mechanisms, safeguard users' sensitive information and transactions. User experience enhancements, such as intuitive navigation, responsive design, and real-time updates, contribute to a seamless and engaging trading environment.

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INTRODUCTION

A trading platform is a software system used to trade securities. It allows investors to open, close, and manage market positions online through a financial intermediary, such as an online broker.

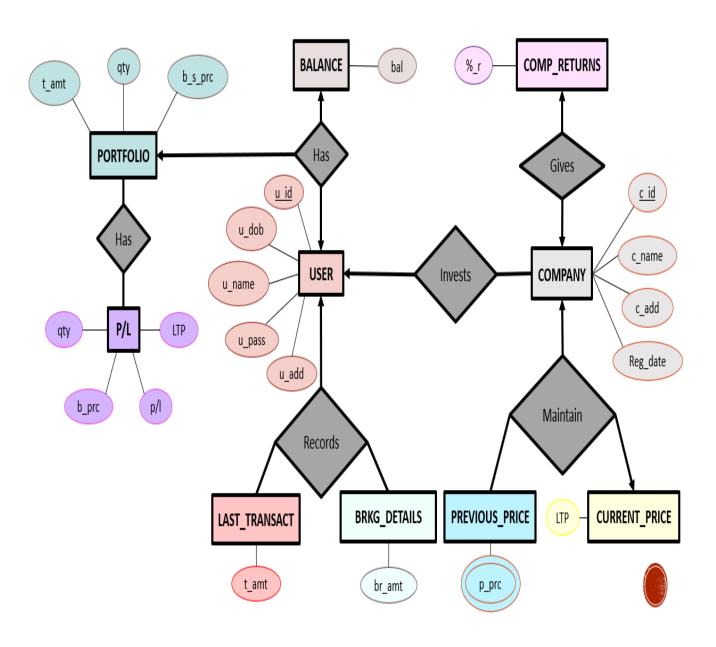
Online trading platforms are frequently offered by brokers either for free or at a discount in exchange for maintaining a funded account and/or making a specified number of trades per month. The best trading platforms offer a mix of robust features and low fees.

Online Trading is a method that facilitates buying and selling of financial instruments such as mutual funds, equities, bonds, Sovereign gold bonds, derivatives, stocks, ETFs and commodities through an electronic interface. Online Trading has simplified a complex process into a few clicks.



ER Diagram

An Entity-Relationship (ER) diagram is a visual representation of the data model that describes how entities are related to each other within a system. It's a conceptual modeling technique used in software engineering to design databases in a graphical format.



ER TO TABLES

		USER		
u id	u name	u dob	u add	u pass

BALANCE				
u id bal				

BRKG_DETAILS				
br amt u id				

LAST_TRANSACT			
lt amt u id			

COMPANY				
c id	c name	c add	Reg date	
PREVIOUS PRICE P prc				

PREVIOUS_PRICE				
p pre c id				

P_prc			
p prc c id			

COMP_RETURNS				
%_r <u>c_id</u>				

CURRENT_PRICE			
ltp c id			

COMPANY-INVESTS					
c id c name c add Reg date u id					

PORTFOLIO							
u id	t_amt	c id	qty	b s prc			

P/L						
u_id	pyl	c id	qty	B_prc	ltp	

NORMALIZATION

Normalization is a database design technique used to organize tables and their relationships in a way that reduces redundancy and dependency. In this code, normalization principles are applied in several places:

1. User Information (user_info) Table:

The user_info table is in the third normal form. There are no transitive dependencies present. Each non-key attribute (columns other than the primary key) is dependent only on the primary key U_id.

2. Company Information (company_info) Table:

Similarly, the company_info table is in the third normal form. All non-key attributes are directly dependent on the primary key C_id.

3. Portfolio Table:

The portfolio table, which maintains users' stock holdings, appears to be in 3NF. The attributes such as B_S_{price} , Qty, and $Total_{amt}$ are directly related to the primary key (C_{id} , U_{id}), and there are no transitive dependencies.

Normalization to 3NF ensures that there are no non-prime attributes dependent on other non-prime attributes, i.e., all attributes are functionally dependent only on the primary key. This reduces data redundancy and helps maintain data integrity.

PROJECT CODE

```
import mysql.connector
import random
import matplotlib.pyplot as plt
p count=0
mydb = mysql.connector.connect(
  host="localhost",
  user="root",
  password="GAUTAM",
  database="TRADING PLATFORM"
mycursor = mydb.cursor()
price_list=[]
mycursor.execute("CREATE DATABASE TRADING PLATFORM")
mycursor.execute("CREATE TABLE user_info (U_name VARCHAR(255),U_id
int primary key, U address VARCHAR(255), U dob DATE, U pass
VARCHAR(255))")
mycursor.execute("CREATE TABLE Brkg details (U id int, Br amt int,
FOREIGN KEY (U id) REFERENCES user info(U id))")
mycursor.execute("CREATE TABLE Comp_returns (C_id int, Prec_return
int , FOREIGN KEY (C_id) REFERENCES company_info(C_id))")
mycursor.execute("CREATE TABLE PL (U_id int,C_id int , Qty int , P_L
int , LTP buy price int , Sell Price int)")
mycursor.execute("CREATE TABLE Last Transact (U_id int ,T_amt int ,
FOREIGN KEY (U id) REFERENCES user info(U id))")
mycursor.execute("CREATE TABLE Prev Price (C_id int, Pre_Price int ,
FOREIGN KEY (C id) REFERENCES company info(C id))")
mycursor.execute("CREATE TABLE company_info (C_name
VARCHAR(255),C_id int primary key , C_address VARCHAR(255),Reg_date
DATE)")
mycursor.execute("CREATE TABLE Balance (U_id int, Balance int ,
FOREIGN KEY (U id) REFERENCES user info(U id))")
mycursor.execute("CREATE TABLE Stock_price_current (C_id int, LTP
int , FOREIGN KEY (C id) REFERENCES company info(C id))")
mycursor.execute("CREATE TABLE portfolio (C id int,U id int ,
B S price int ,Qty int,Total amt int, FOREIGN KEY (C id) REFERENCES
company_info(C_id),FOREIGN KEY (U_id) REFERENCES
user info(U id))")
```

```
def add user():
    print("Welcome to the PLATFORM")
    uname = input("Enter the User Name: ")
    uid = int(input("Enter the User Id: "))
    udob = input("Enter the Dob: ")
    uadd = input("Enter the address: ")
    upass = input("Enter the password: ")
    sql = "INSERT INTO user info (U name, U id, U address, U dob,
U pass) VALUES (%s, %s, %s, %s, %s)"
    val = (uname, uid, uadd, udob, upass)
    mycursor.execute(sql, val)
    mydb.commit()
    print("User added successfully!")
    print()
    sql = "INSERT INTO Balance (U id, Balance) VALUES (%s, %s)"
    val = (uid, 0)
    mycursor.execute(sql, val)
    mydb.commit()
def mod user():
    uid=int(input("Enter the uid to modify : "))
    uname = input("Enter the New User Name: ")
    udob = input("Enter the New Dob: ")
    uadd = input("Enter the New address: ")
    upass = input("Enter the New password: ")
    sql="update user info set U name=%s
,U dob=%s,U address=%s,U pass=%s where U id=%s"
    val=(uname,udob,uadd,upass,uid)
    mycursor.execute(sql, val)
    mydb.commit()
    print("User modified successfully!")
    print()
def add comapny():
```

```
print("Welcome to the PLATFORM")
    cname = input("Enter the Comapny Name: ")
    cid = int(input("Enter the Comapny Id: "))
    cdate = input("Enter the Reg Date : ")
    cadd = input("Enter the Company address: ")
    price=int(input("Enter the listed(initial) price : "))
    sql = "INSERT INTO company_info (C_name, C_id, C_address,
Reg date) VALUES (%s, %s, %s, %s)"
    val = (cname, cid, cadd, cdate)
    mycursor.execute(sql, val)
    mydb.commit()
    print("Company added successfully!")
    print()
    sql = "INSERT INTO Stock price current (C id,LTP) VALUES (%s,
%s)"
    val = (cid,price)
    mycursor.execute(sql, val)
    mydb.commit()
def mod company():
    cid=int(input("Enter the cid to modify : "))
    cname = input("Enter the New Company Name: ")
    cdate = input("Enter the New Reg date: ")
    cadd = input("Enter the New address: ")
    sql="update company info set C name=%s ,Reg date=%s,C address=%s
where C id=%s"
    val=(cname,cdate,cadd,cid)
    mycursor.execute(sql, val)
    mydb.commit()
    print("Company modified successfully!")
    print()
```

```
def add balance():
    uid=input("Enter the User id to add money : ")
    amt=int(input("Enter the amount to be added : "))
    sql="select Balance from Balance where U id=%s"
    mycursor.execute(sql, (uid,))
    prev=mycursor.fetchone()
    prev bal=int(prev[0])
    new bal=prev bal+amt
    sql="update Balance set Balance=%s where U id=%s"
    val=(new bal,uid)
    mycursor.execute(sql, val)
    mydb.commit()
    print("Money Added successfully!")
    print()
    sql = "INSERT INTO last_transact (U_id,T_amt) VALUES (%s, %s)"
    val = (uid, amt)
    mycursor.execute(sql, val)
    mydb.commit()
def withdraw bal():
    uid=input("Enter the User id : ")
    amt=int(input("Enter the amount to withdraw : "))
    sql="select Balance from Balance where U_id=%s"
    mycursor.execute(sql, (uid,))
    cur=mycursor.fetchone()
    cur bal=int(cur[0])
    if cur bal > amt:
        new bal=cur bal-amt
        sql="update Balance set Balance=%s where U id=%s"
```

```
val=(new bal,uid)
        mycursor.execute(sql, val)
        mydb.commit()
        print("Money Withdrawed successfully!")
        sql = "INSERT INTO last_transact (U_id,T_amt) VALUES (%s,
%s)"
        val = (uid, -amt)
        mycursor.execute(sql,val)
        mydb.commit()
    else:
        print("Insufficient Money in account ")
def update_ltp():
    cid=int(input("enter the Cid : "))
    price move = random.randint(1, 15) * 5
    price_trend=random.randint(0,1)
    arr=["+","-"]
    char=arr[price_trend]
    sql="select LTP from Stock_price_current where C_id=%s"
    mycursor.execute(sql, (cid,))
    cur=mycursor.fetchone()
    prev_price=int(cur[0])
    if(char == '+'):
        new_p=prev_price+price_move
    else:
        new_p=prev_price-price_move
    sql="update Stock_price_current set LTP=%s where C id=%s"
    val=(new_p,cid)
```

```
mycursor.execute(sql, val)
    mydb.commit()
    price list.append(new p)
    global p_count;
    p_count=p_count+1
    sql="select C_name from company_info where C_id=%s"
    mycursor.execute(sql, (cid,))
    cur=mycursor.fetchone()
    print("Current stock price of company :",cur[0], " : ",new_p)
    sql = "INSERT INTO prev_price (C_id,Pre_Price) VALUES (%s,
%s)"
    val = ( cid,new_p)
    mycursor.execute(sql, val)
    mydb.commit()
def Chart():
    update_ltp()
    update_ltp()
    update_ltp()
    update_ltp()
    update_ltp()
    y=price_list
    \mathbf{x} = []
    for i in range(0,p_count,1):
        x.append(i*5)
```

```
plt.plot(x, y)
    plt.xlabel('TIME')
    plt.ylabel('PRICE')
    plt.title('PRICE CHART')
    plt.show()
def buy_share():
    uid=int(input("Enter the user id :"))
    cid=input("Enter the company id : ")
    qty=int(input("Enter the qty :"))
    sql="select LTP from Stock_price_current where C_id=%s"
    mycursor.execute(sql, (cid,))
    cur=mycursor.fetchone()
    bs price=cur[0]
    f amt=bs price*qty
    sql="select Balance from Balance where U id=%s"
    mycursor.execute(sql, (uid,))
    cur=mycursor.fetchone()
    ava_val=int(cur[0])
    print("Brokerage : 5 %")
    bro_amt=0.05*f_amt
    if(ava_val > f_amt+bro_amt):
        sql = "INSERT INTO portfolio
(C_id,U_id,B_S_price,Qty,Total_amt) VALUES (%s, %s, %s,
%s,%s)"
        val = ( cid,uid,bs_price,qty,f_amt)
        mycursor.execute(sql, val)
        mydb.commit()
        print("Share purchased successfully!")
        print("")
        sql="update Balance set Balance=%s where U id=%s"
```

```
r bal=ava val-(f amt+bro amt)
        val=(r_bal,uid)
        mycursor.execute(sql, val)
        mydb.commit()
        print("Balance updated successfully!")
        print("")
        sql = "INSERT INTO Brkg_details (U_id,Br_amt) VALUES (%s,
%s)"
        val = ( uid,bro_amt)
        mycursor.execute(sql, val)
        mydb.commit()
        print("Brokerage Received")
        pl_amt=0
        sp=0
        sql = "INSERT INTO pl
(U_id,C_id,Qty,P_L,LTP_buy_price,Sell_price) VALUES (%s,%s, %s, %s,
%s,%s)"
        val = ( uid,cid,qty,pl_amt,bs_price,sp)
        mycursor.execute(sql, val)
        mydb.commit()
        sql = "INSERT INTO last_transact (U_id,T_amt) VALUES (%s,
%s)"
        val = (uid, -(f_amt+bro_amt))
        mycursor.execute(sql, val)
        mydb.commit()
    else :
        print("Insufficient Money")
```

```
def sell share():
    uid=int(input("Enter the user id :"))
    cid=input("Enter the company id : ")
    qty=int(input("Enter the qty to sell :"))
    sql="select Qty from portfolio where U_id=%s and C_id=%s "
    val=(uid,cid)
    mycursor.execute(sql,
val)
    cur=mycursor.fetchone()
    ava_qty=int(cur[0])
    print("Brokerage : 2.5 %")
    update ltp()
    sql="select LTP from Stock_price_current where C_id=%s"
    mycursor.execute(sql, (cid,))
    cur=mycursor.fetchone()
    c_price=int(cur[0])
    if(ava_qty >= qty):
        amt_with=c_price*qty
        bro amt=0.025*amt with
        sql="select Balance from Balance where U_id=%s "
        value=(uid,)
        mycursor.execute(sql, value)
        cur=mycursor.fetchone()
        ava_val=int(cur[0])
        sql="update Balance set Balance=%s where U id=%s"
        r bal=ava val+amt with-bro amt
```

```
val=(r bal,uid)
        mycursor.execute(sql, val)
        mydb.commit()
        print("Balance updated successfully!")
        print("")
        sql="update portfolio set Qty=%s where U_id=%s and C_id=%s
        new_qty=ava_qty-qty
        val=(new_qty,uid,cid)
        mycursor.execute(sql, val)
        print("Qty updated successfully !!")
        mydb.commit()
        sql="select LTP_buy_price from pl where U_id=%s and
C_id=%s"
        value=(uid,cid)
        mycursor.execute(sql, value)
        cur=mycursor.fetchone()
        bp amt=int(cur[0])
        plamt=(c_price-bp_amt)*qty
        sql="update pl set sell_price=%s, p_l=%s,qty=%s where
U_id=%s and C_id=%s "
        val=(c_price,plamt,new_qty,uid,cid)
        mycursor.execute(sql, val)
        print("P/L Statement updated successfully !!")
        mydb.commit()
```

```
sql = "INSERT INTO last transact (U id,T amt) VALUES (%s,
%s)"
        val = (uid, (amt with-bro amt))
        mycursor.execute(sql, val)
        mydb.commit()
    else:
        print("Insufficient Shares")
def Comapny_return():
    cid=int(input("Enter the company id : "))
    sql="select LTP buy price from pl where C id=%s"
    value=(cid,)
    mycursor.execute(sql, value)
    cur=mycursor.fetchone()
    buy amt=int(cur[0])
    sql="select Sell_Price from pl where C_id=%s"
    value=(cid,)
    mycursor.execute(sql, value)
    cur=mycursor.fetchone()
    sell_amt=int(cur[0])
    per=((sell_amt-buy_amt)/buy_amt)*100
    sql = "INSERT INTO comp_returns (C_id,Prec_return) VALUES (%s,
%s)"
    val = (cid,per)
    mycursor.execute(sql, val)
```

```
mydb.commit()
    print("Percentage return is : ", per , "%")
def Display_Previous_price():
    cid=int(input("Enter the cid : "))
    sql="select C name from company info where C id=%s "
    value=(cid,)
    mycursor.execute(sql, value)
    cur=mycursor.fetchone()
    print("Company : ",cur[0])
    print("Company id : ",cid )
    sql="select Pre Price from prev price where C id=%s"
    value=(cid,)
    mycursor.execute(sql, value)
    cur=mycursor.fetchall()
    for i in cur:
        print("Price ",i[0])
def login():
    print("Enter the following details for login : ")
    ui=int(input("Enter the use id :"))
    pas=input("Enter the pass :")
    sql="select U_pass from user_info where U_id=%s"
    value=(ui,)
    mycursor.execute(sql, value)
    oe pass=mycursor.fetchone()
    l pass=oe pass[0]
```

```
if(l_pass == pas):
        print("Logged in successfully")
        return 1
    else:
        print("INVALID DETAILS")
        return 0
print(" $$ WELCOME TO THE VIRTUAL TRADING PLATFORM $$ ")
print("Making the DEMO USER : ")
add_user()
a=login()
while(a):
    print("Enter the option to proceed with the platform :- ")
    print("Option 1 : TO ADD NEW USER" )
    print("")
    print("Option 2 : TO MODIFY USER" )
    print("")
    print("Option 3 : TO ADD NEW COMPANY" )
    print("")
    print("Option 4 : TO MODIFY COMPANY" )
    print("")
```

```
print("Option 5 : TO ADD BALANCE" )
print("")
print("Option 6 : TO WITHDRAW BALANCE" )
print("")
print("Option 7 : TO SHOW LTP OF A STOCK" )
print("")
print("Option 8 : TO DISPLAY PRICE CHART" )
print("")
print("Option 9 : TO BUY SHARE" )
print("")
print("Option 10 : TO SELL SHARE" )
print("")
```

```
print("Option 11 : TO DISPLAY COMPANY RETURNS" )
print("")
print("Option 12 : TO DISPLAY PREVIOUS PRICE OF A STOCK" )
print("")
print("Option 13 : TO LOGOUT" )
print("")
op=int(input("Enter Desired option : "))
match op:
    case 1:
        add_user()
    case 2:
        mod_user()
    case 3:
        add_comapny()
    case 4:
       mod_company()
    case 5:
        add_balance()
```

```
case 6:
    withdraw_bal()
case 7:
    update_ltp()
case 8:
    Chart()
case 9:
    buy_share()
case 10 :
    sell_share()
case 11:
    Comapny_return()
case 12:
    Display_Previous_price()
case 13 :
    a=0
    print("Logged out successfully")
case _ :
   print("Invalid option selected :")
```

OUTPUT (VS CODE)

1) ADD USER

Welcome to the PLATFORM

Enter the User Name: GAUTAM

```
Enter the User Id: 1
  Enter the Dob: 2002-10-16
  Enter the address: SGNR
  Enter the password: GD@123
  User added successfully!
Enter the following details for login:
Enter the use id :1
Enter the pass :GD@123
Logged in successfully
Enter the option to proceed with the platform :-
Option 1 : TO ADD NEW USER
Option 2 : TO MODIFY USER
Option 3 : TO ADD NEW COMPANY
Option 4 : TO MODIFY COMPANY
Option 5 : TO ADD BALANCE
Option 6 : TO WITHDRAW BALANCE
Option 7 : TO SHOW LTP OF A STOCK
Option 8 : TO DISPLAY PRICE CHART
Option 9 : TO BUY SHARE
Option 10 : TO SELL SHARE
Option 11 : TO DISPLAY COMPANY RETURNS
Option 12: TO DISPLAY PREVIOUS PRICE OF A STOCK
Option 13 : TO LOGOUT
```

Enter Desired option :

Enter Desired option : 1
Welcome to the PLATFORM

Enter the User Name: VASHISTHA

Enter the User Id: 2

Enter the Dob: 2003-07-21 Enter the address: BARMER Enter the password: VC@123 User added successfully!

2) MODIFY USER

Enter Desired option : 2
Enter the uid to modify : 2
Enter the New User Name: VIDHI
Enter the New Dob: 2004-10-18
Enter the New address: SGNR
Enter the New password: VG@123
User modified successfully!

3) ADD COMPANY

Enter Desired option : 3
Welcome to the PLATFORM

Enter the Comapny Name: HDFC BANK

Enter the Comapny Id: 100

Enter the Reg Date : 2000-10-10 Enter the Company address: DELHI

Enter the listed(initial) price: 2500

Company added successfully!

4) MODIFY COMPANY

Enter Desired option: 4

Enter the cid to modify: 100

Enter the New Company Name: HDFC PVT BANK

Enter the New Reg date: 2001-05-06 Enter the New address: NEW DELHI Company modified successfully!

5) ADD BALANCE

Enter Desired option : 5

Enter the User id to add money: 1

Enter the amount to be added: 15000

Money Added successfully!

6) WITHDRAW BALANCE

Enter Desired option: 6

Enter the User id : 1

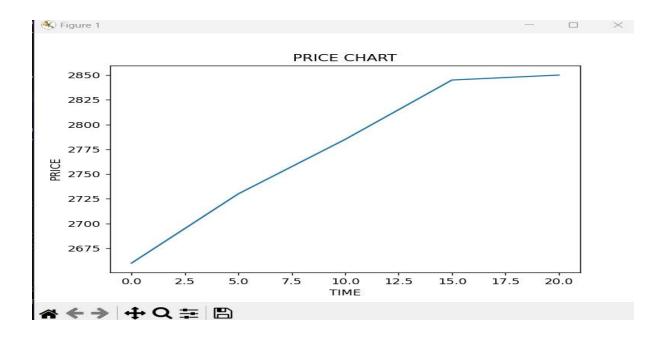
Enter the amount to withdraw: 5000

Money Withdrawed successfully!

7) DISPLAY LTP

```
Enter Desired option : 7
enter the Cid : 100
Current stock price of company : HDFC PVT BANK : 2555
```

8) CHART



```
Enter Desired option: 8
enter the Cid : 100
Current stock price of company : HDFC PVT BANK
                                                   2660
enter the Cid: 100
Current stock price of company : HDFC PVT BANK
                                                   2730
enter the Cid: 100
Current stock price of company : HDFC PVT BANK
                                                   2785
enter the Cid: 100
Current stock price of company : HDFC PVT BANK
                                                   2845
enter the Cid: 100
Current stock price of company : HDFC PVT BANK
                                                   2850
```

9) BUY SHARE

Enter Desired option: 9
Enter the user id:1
Enter the company id: 100
Enter the qty:2
Brokerage: 5 %
Share purchased successfully!

Balance updated successfully!

Brokerage Received

10) <u>SELL SHARE</u>

Enter Desired option: 10
Enter the user id:1
Enter the company id: 100
Enter the qty to sell:1
Brokerage: 2.5 %
enter the Cid: 100
Current stock price of company: HDFC PVT BANK: 2835
Balance updated successfully!

Qty updated successfully!!
P/L Statement updated successfully!!

11) COMPANY RETURN

Enter Desired option: 11

Enter the company id : 100

Percentage return is: -1.9298245614035088 %

12) <u>DISPLAY PREVIOUS PRICES</u>

```
Enter Desired option: 12
Enter the cid: 100
Company: HDFC PVT BANK
Company id: 100
Price 2555
Price 2590
Price 2660
Price 2610
Price 2625
Price 2630
Price 2725
Price 2795
Price 2855
Price 2780
Price 2710
Price 2660
Price 2730
Price 2785
Price 2845
Price 2850
Price 2835
Price 2795
```

13) <u>LOGOUT</u>

```
Enter Desired option : 13
Logged out successfully
PS C:\Users\gauta>
```

OUTPUT (DATABASE)

MySQL 8.3 Command Line Cli					
Server version: 8.3.0 MySQL Community Server - GPL					
Copyright (c) 2000, 2024, Oracle and/or its affiliates.					
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.					
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.					
mysql> show databases;					
Database					
information_schema lab_eval mysql performance_schema sys trading_platform					
++ 6 rows in set (0.03 sec)					
mysql> use trading_platform; Database changed mysql> show tables;					
Tables_in_trading_platform					
balance					
10 rows in set (0.01 sec)					

```
mysql> select * from user_info;
               U_id | U_address | U_dob
  U_name
                                                U_pass
                                                GD@123
  GAUTAM
                      SGNR
                                  2002-10-16
  VIDHI
                      SGNR
                                  2004-10-18
                                                VG@123
  VASHISTHA
                      BMR
                                  2002-04-09
                                                VC@123
  SAMARTH
                      JK
                                  2001-06-04
                                                SS@123
4 rows in set (0.00 sec)
```

```
mysql> select * from last_transact;
+----+
| U_id | T_amt |
+----+
| 1 | 15000 |
| 1 | -5000 |
| 1 | -5985 |
| 1 | 2764 |
| 1 | 2725 |
+----+
5 rows in set (0.01 sec)
```

```
mysql> select * from comp_returns;
+----+
| C_id | Prec_return |
+----+
| 100 | -2 |
| 100 | -2 |
+----+
2 rows in set (0.00 sec)
```

```
mysql> select * from brkg_details;

+----+

| U_id | Br_amt |

+----+

| 1 | 285 |

+----+

1 row in set (0.00 sec)
```

```
mysql> select * from prev_price;
  C_id |
         Pre_Price
   100
               2555
   100
               2590
   100
               2660
   100
               2610
   100
               2625
   100
               2630
   100
               2725
   100
               2795
   100
               2855
   100
               2780
   100
               2710
   100
               2660
   100
               2730
   100
               2785
   100
               2845
   100
               2850
   100
               2835
   100
               2795
18 rows in set (0.00 sec)
```

```
mysql> select * from stock_price_current;

+----+

| C_id | LTP |

+----+

| 100 | 2795 |

+----+

1 row in set (0.00 sec)
```

CONCLUSION

In conclusion, the development and implementation of this virtual trading platform underscore the fusion of MySQL and Python as powerful tools for creating innovative financial applications. By providing users with a realistic yet risk-free avenue for exploring financial markets, the platform aims to democratize access to investment education and empower individuals to make informed financial decisions.

